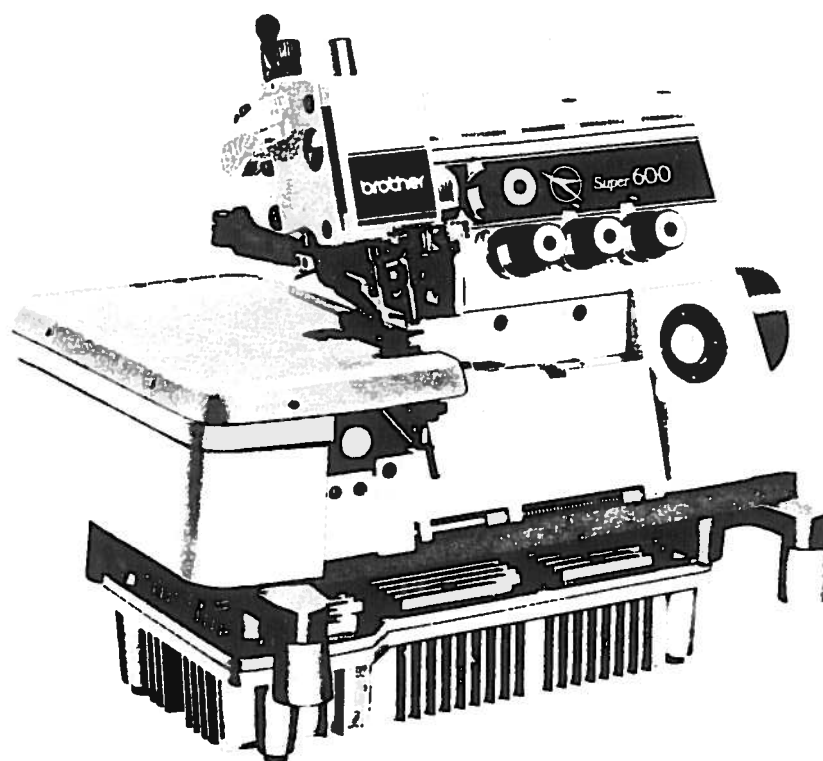


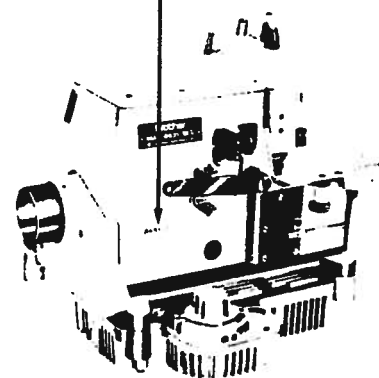
brother

PARTS BOOK

MA4-B631



P631002



 *Super 600*

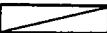
Ultra High Speed Safety Stitch Sewing Machine

BROTHER INDUSTRIES, LTD.
NAGOYA, JAPAN

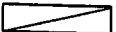
Notes for using this parts book

1. This book is applicable to sewing machines which have the same plate number as shown on the cover of this book (or correction sheet).
2. If the symbol  or  is in the "Parts No." column or the "Assembly No." column, please refer to the different parts list (page 27).
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 number.
4. If the * symbol is found before the Parts No., order this parts together with its paired parts.
5. This book was prepared based on information available in November, 1980.
6. Parts are subject to changes in design without prior notice.

Anmerkungen zum Gebrauch dieses Stücklistebuches

1. Dieses Buch bezieht sich auf die Nähmaschinen mit derselben Kennungsnummer wie auf diesem Buchumschlag (oder auf dem Korrekturblatt).
2. Wenn in der stücknummer oder Gerätesatznummer Spalte das Zeichen  der  steht, schlagen Sie bitte bei der gesonderte Stückliste (Seite 27) 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. Dieses Buch basiert auf den Informationen vom November 1980.
6. Modelländerungen sind vorbehalten.

Notes sur l'utilisation de ce manuel de pièces détachées

1. Ce manuel est destiné aux machines à coudre ayant le même numéro de plaque montré sur la couverture de ce manuel (ou sur la feuille de corrections).
2. Si le symbole  ou 000000-0-00 est présent dans la colonne "No. de pièce" ou dans la colonne "No. de ensemble", se référer à la liste de pièces annexe (page 27).
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. Ce manuel a été fait d'après les renseignements valables au mois de Novembre 1980.
6. Les pièces peuvent être sujettes à des modifications sans préavis.

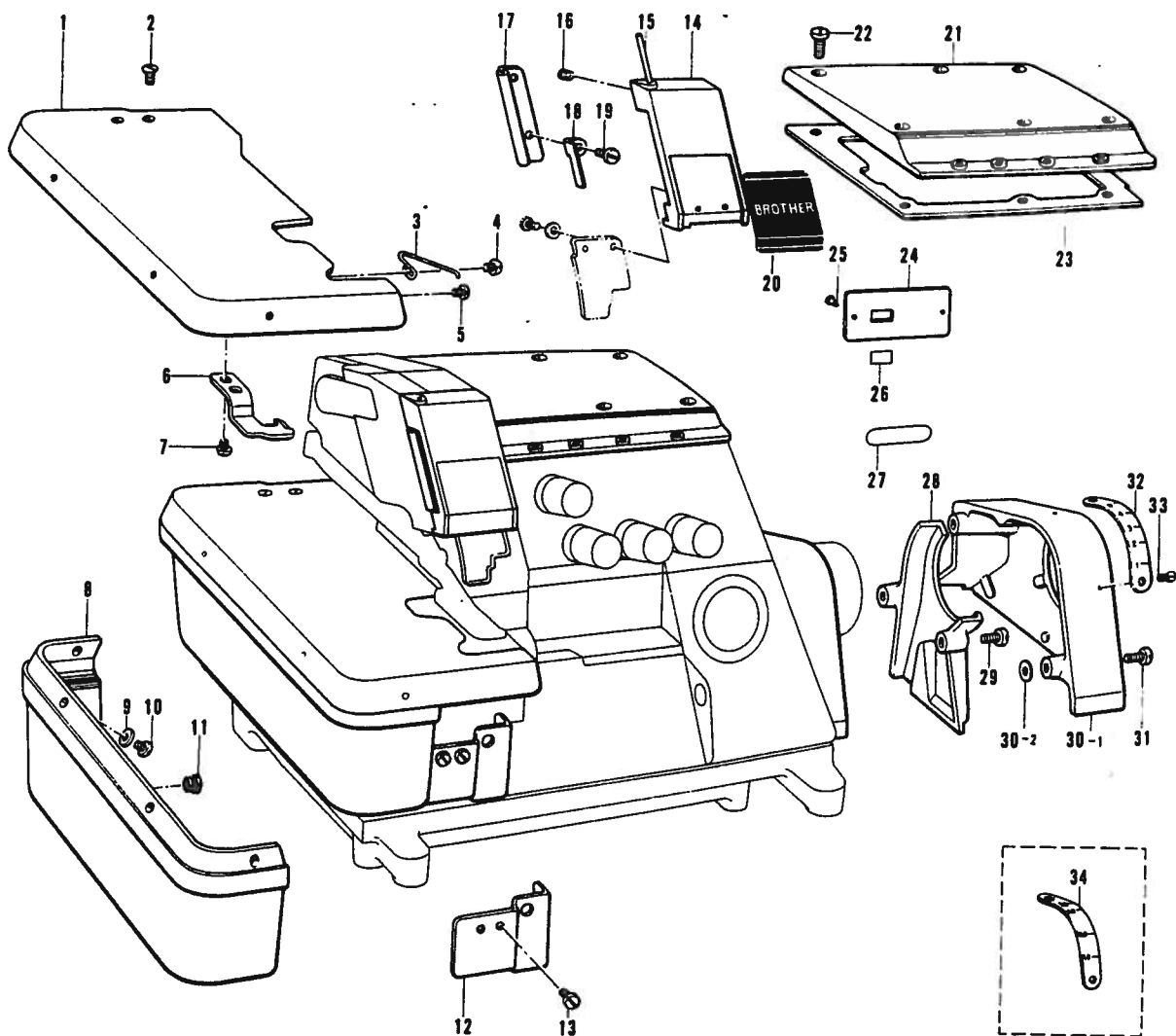
Notas para usar este Libro de Piezas

1. Este libro sirve para todas las máquinas de coser que llevan la misma placa de identificación que la que se puede ver en la tapa de este libro (o en la hoja de erratas).
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 27).
3. El símbolo , que se encuentra en la columna del "Número de Pieza", quiere decir que no se dispone de dicha pieza sola. Cuando, empero, hay un número en la columna del "Numero de Juego", se podrá ordenar la pieza con todo el juego. Por lo tanto, será mejor hacer el pedido recurriendo al número del juego respectivo.
4. Si antes del número de una pieza, se encuentra el símbolo *, habrá que ordenar dicha pieza junto con la otra con la que va la misma.
5. Este libro ha sido compilado basándose en los datos de que se disponía en Noviembre de 1980.
6. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

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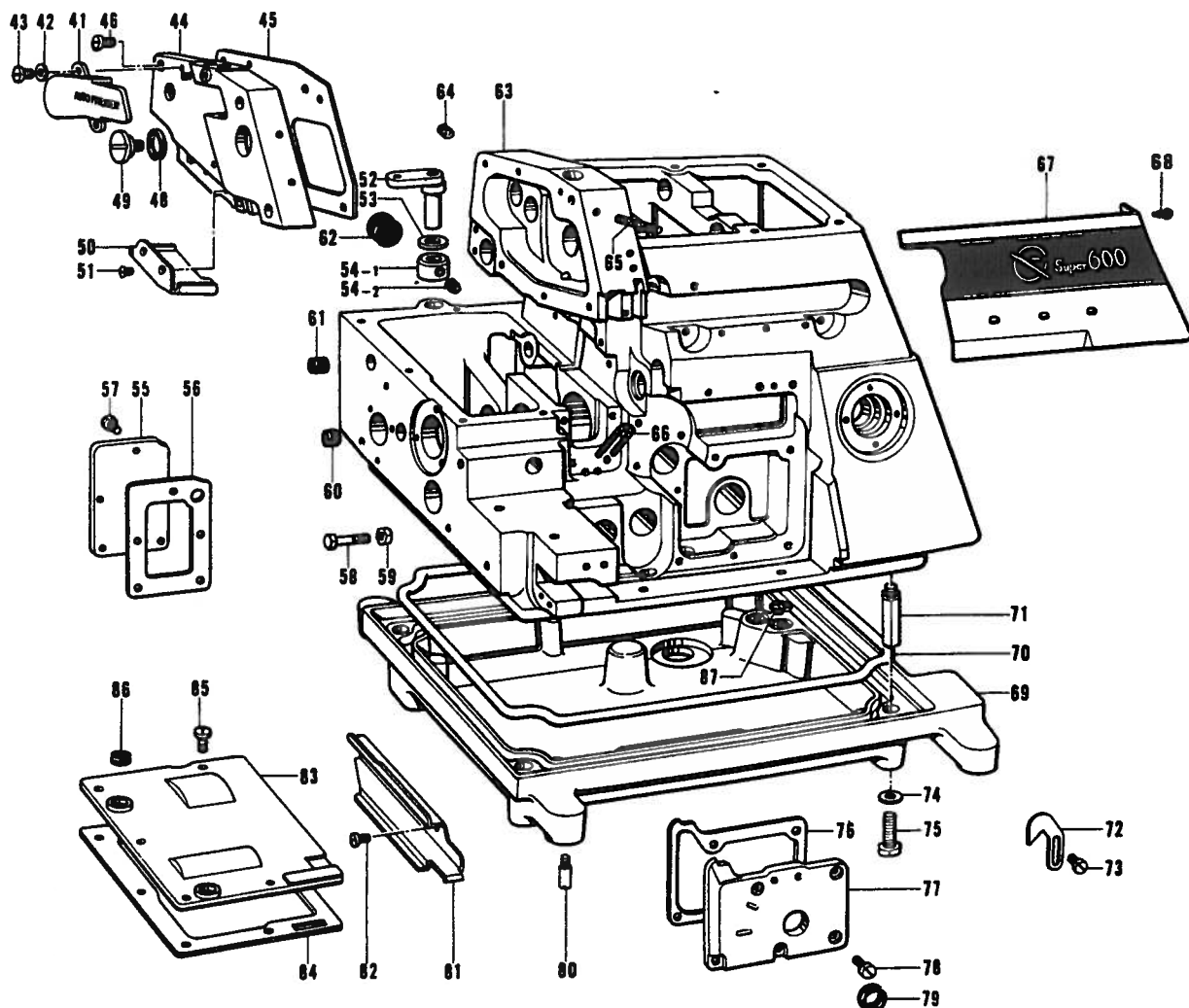
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A. Machine Body (1)



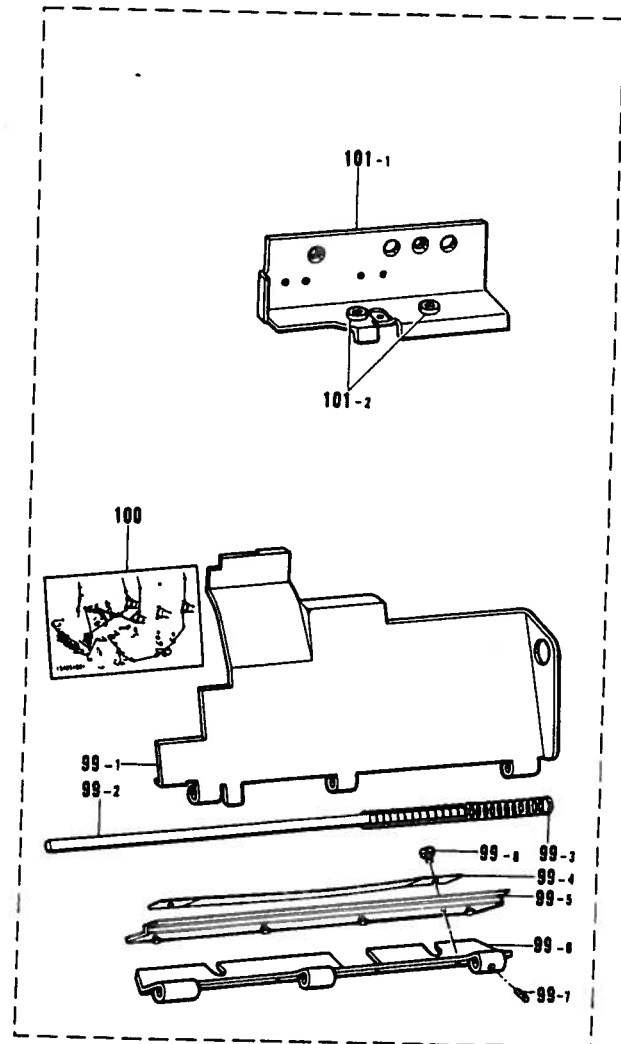
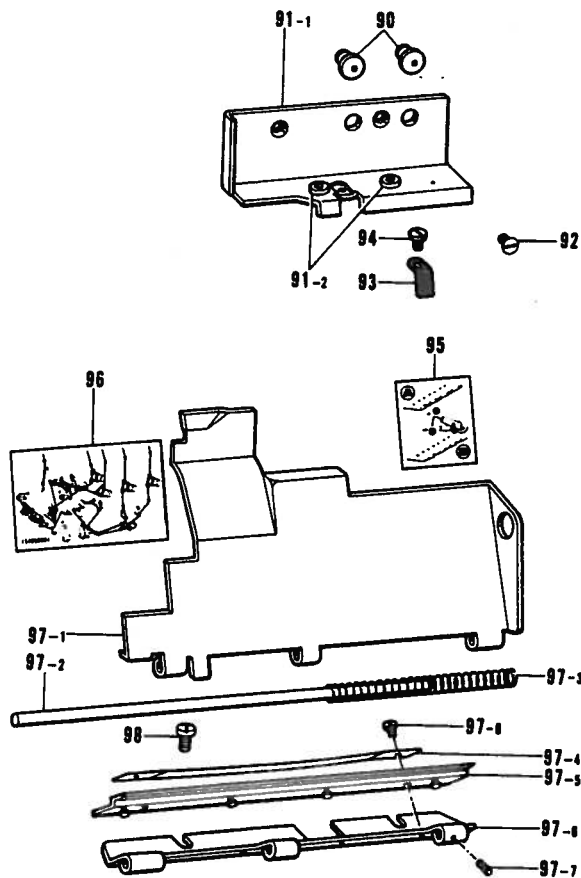
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A-1	Cloth Plate	1	154830-0-01		A-19	Screw 3.57 x 7	2	009670-7-12	
A-2	Screw 4.37	2	100032-0-03		A-20	Name Plate	1	154815-0-01	
A-3	Spring	1	146450-0-01		A-21	Top Cover	1	154798-0-01	
A-4	Screw 3.57 x 5	1	001670-5-12		A-22	Screw 4.37 x 12	6	009681-2-12	
A-5	Screw 3.57 x 5	1	007670-5-13		A-23	Packing	1	154800-0-00	
A-6	Stopper for Cloth Plate	1	154832-0-01		A-24	Model Plate 631	1		
A-7	Screw 3.57 x 5	2	001670-5-12		A-25	Pin	2		
A-8	Cloth Plate Lower	1	154834-0-01		A-26	Label	1		
A-9	Washer	4	025350-3-32		A-27	Parts Book Number Plate	1		
A-10	Screw 3.57 x 6	4	001670-6-12		A-28	Fan Case	1	154806-0-00	
A-11	Oil Cap	2	104450-0-01		A-29	Screw 4.37 x 10	2	009681-0-12	
A-12	Front Cover Guide	1	154822-0-01		A-30-1	Belt Cover	1		
A-13	Screw 3.57 x 6	2	009670-6-12		A-30-2	Washer	2	155520-0-01	A-30 Belt Cover Assembly 155519-0-01
A-14	Face Plate Cover	1	154811-0-01		A-31	Screw 4.37 x 10	2	009681-0-12	
A-15	Pin for Face Plate	1	154813-0-00		A-32	Stitch Length Control Plate	1	154808-0-01	
A-16	Screw 3.18	1	146427-0-01		A-33	Screw 2.38	2	105288-0-01	
A-17	Face Plate Cover Hinge	1	154812-0-01		A-34	Stitch Length Control Plate	1	154810-0-01	
A-18	Spring	1	154814-0-01						

A. Machine Body (2)



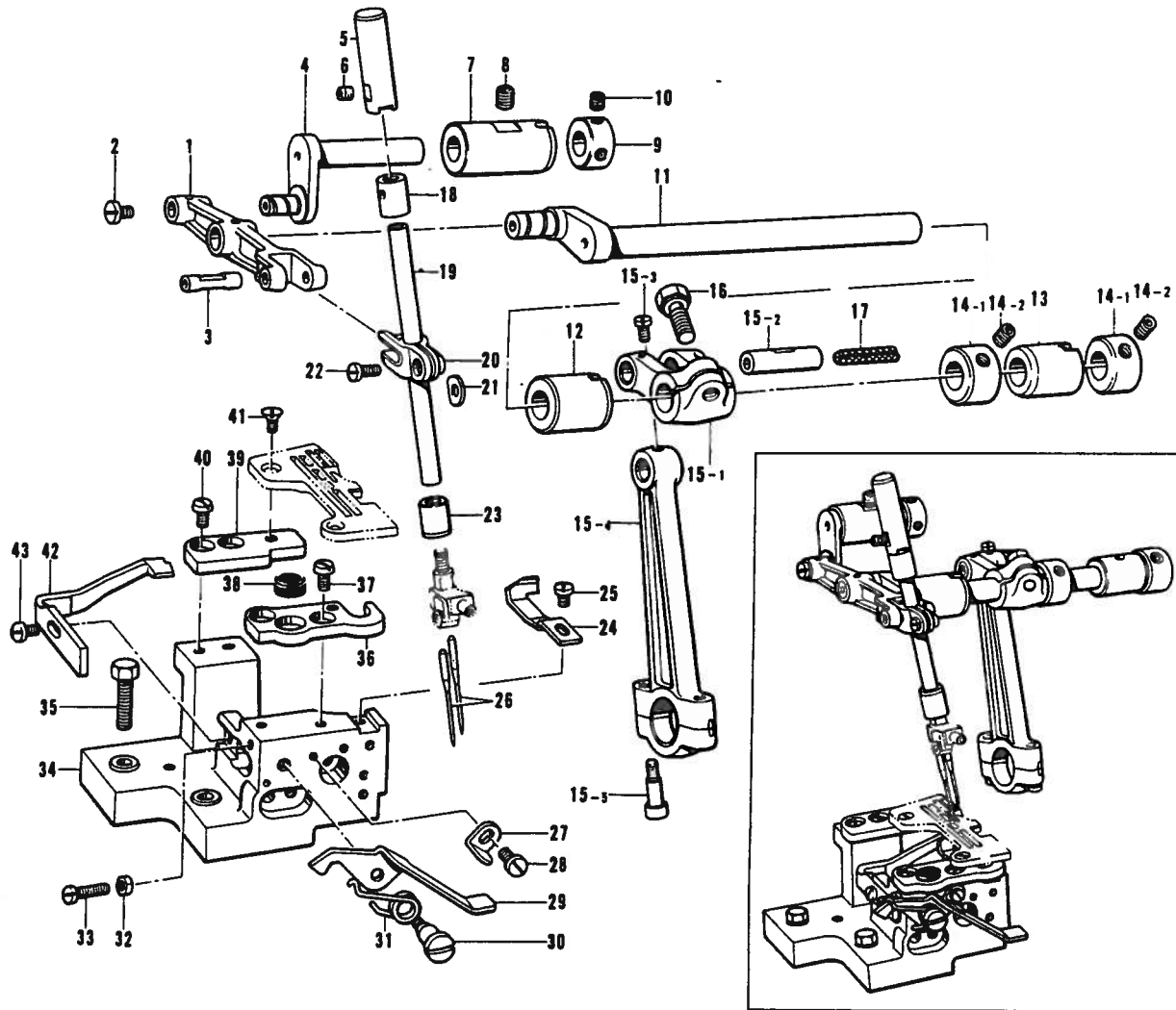
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A-41	Auto Presser Arm Cover	1	154803-0-01		A-64	Screw 5.95	2	013760-6-12	
A-42	Washer	2	110735-0-02		A-65	Wick 6 x 6 (15)	1	155555-0-00	
A-43	Screw 4.37 x 7	2	009680-7-12		A-66	Wick 4 x 4 (110)	1	112750-0-00	
A-44	Cover for Needle Driving Mechanism	1	154801-0-01		A-67	Emblem Plate	1	154836-0-01	
A-45	Packing	1	154802-0-00		A-68	Pin	2	124918-0-01	
A-46	Screw 4.37 x 7	6	009680-7-12		A-69	Oil Reservoir	1	154842-0-01	
A-48	"O" Ring	1	109203-0-01		A-70	Packing	1	154843-0-00	
A-49	Screw 9.52	1	110641-0-02		A-71	Machine Body Leg	4	148085-0-01	
A-50	Cloth Guide (S)	1	154838-0-01		A-72	Adjusting Plate	1	155552-0-01	
A-51	Screw 3.57	2	108960-0-02		A-73	Screw 3.57 x 6	2	009670-6-12	
A-52	Cloth Plate Supporter	1	154831-0-01		A-74	Washer	4	118735-0-02	
A-53	Washer	1	141183-0-00		A-75	Bolt 6.35 x 16	4	017771-6-12	
A-54-1	Set Collar	1		A-54 Collar Assembly 181969-0-03	A-76	Packing	1	154820-0-00	
A-54-2	Screw 6.35	2	101706-0-01		A-77	Inside Cover	1	154819-0-00	
A-55	Cover for Feed Mechanism	1	154804-0-01		A-78	Screw 3.57 x 8	5	009670-8-12	
A-56	Packing	1	154805-0-00		A-79	Seal	1	155247-0-00	
A-57	Screw 4.37	5	107407-0-03		A-80	Set Pin Cushion	4	140077-0-01	
A-58	Bolt 4.37	2	154835-0-01		A-81	Cloth Guide (L)	1	154837-0-01	
A-59	Nut	2	105234-0-03		A-82	Screw 3.57 x 6	2	009670-6-12	
A-60	Oil Cap	1	140361-0-01		A-83	Cover for Feed Mechanism	1	154817-0-01	
A-61	Oil Cap	1	146315-0-00		A-84	Packing	1	154818-0-00	
A-62	Oil Cap	1	140066-0-01		A-85	Screw 4.37 x 7	5	009680-7-12	
A-63	Machine Body	1			A-86	Oil Cap	2	143766-0-01	
					A-87	"O" Ring	2	081011-0-70	

A. Machine Body (3)



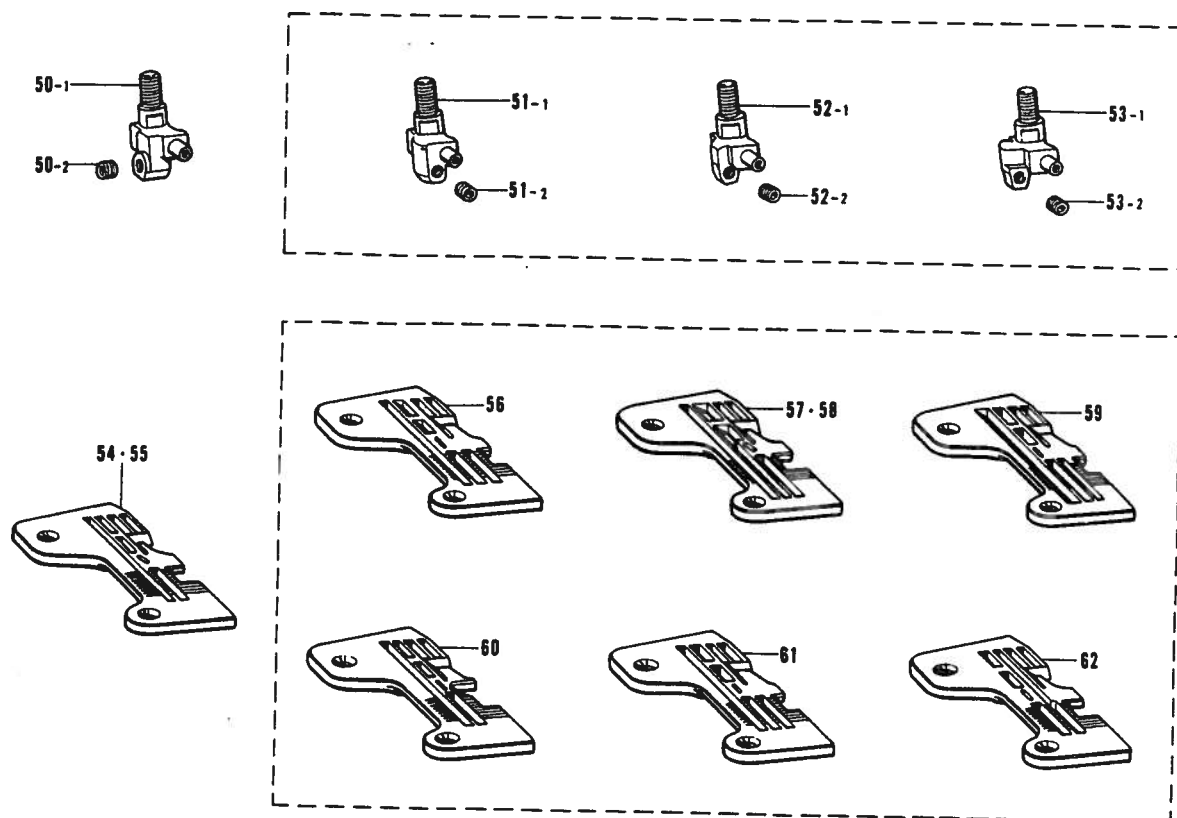
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A-90	Oil Cap	2	143196-0-01		A- 97-7	Spring Pin	1	047140-8-42	A-97 Front Cover Assembly 154861-0-01
A-91-1	Supporter for Front Cover	1		A-91 Supporter for Front Cover Assembly 154825-0-01	A- 97-8	Screw 3.57 x 4	2	009670-4-12	
A-91-2	Thread Bushing	2	146924-0-00		A- 98	Screw 4.37 x 6	2	009680-6-12	
A-92	Screw 4.37	2	117160-0-01		A- 99-1	Front Cover	1		
A-93	Stopper Spring for Front Cover	1	154829-0-01		A- 99-2	Front Cover Hinge Pin	1	154855-0-00	
A-94	Screw 3.57 x 4.5	1	123185-0-01		A- 99-3	Spring	1	146442-0-01	A-99 Front Cover Assembly (Binding) 154863-0-01
A-95	Looper Threading Label	1	155340-0-01		A- 99-4	Hinge Cover Presser Plate	1	152194-0-01	
A-96	Threading Diagram	1	154850-0-01		A- 99-5	Hinge Cover	1	154856-0-00	
A-97-1	Front Cover	1			A- 99-6	Front Cover Hinge	1	154854-0-01	
A-97-2	Front Cover Hinge Pin	1	154855-0-00		A- 99-7	Spring Pin	1	047140-8-42	
A-97-3	Spring	1	146442-0-01	A-97 Front Cover Assembly 154861-0-01	A- 99-8	Screw 3.57 x 4	2	009670-4-12	
A-97-4	Hinge Cover Presser Plate	1	152194-0-01		A-100	Threading Diagram	1	154851-0-01	
A-97-5	Hinge Cover	1	154856-0-00		A-101-1	Supporter for Front Cover	1		A-101 Supporter for Front Cover Assembly (Binding) 154827-0-01
A-97-6	Front Cover Hinge	1	154854-0-01		A-101-2	Thread Bushing	2	146924-0-00	

B. Needle Bar Mechanism (1)



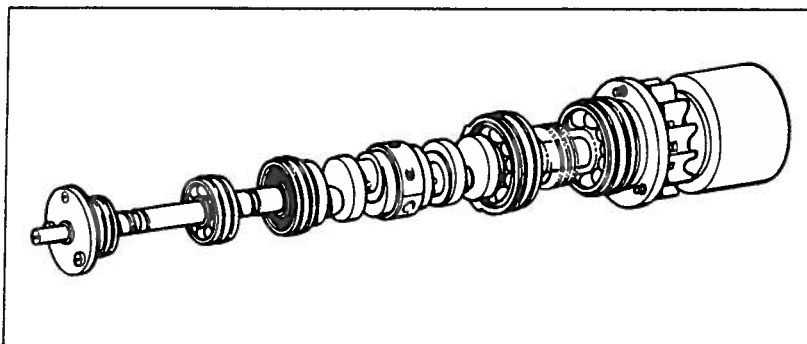
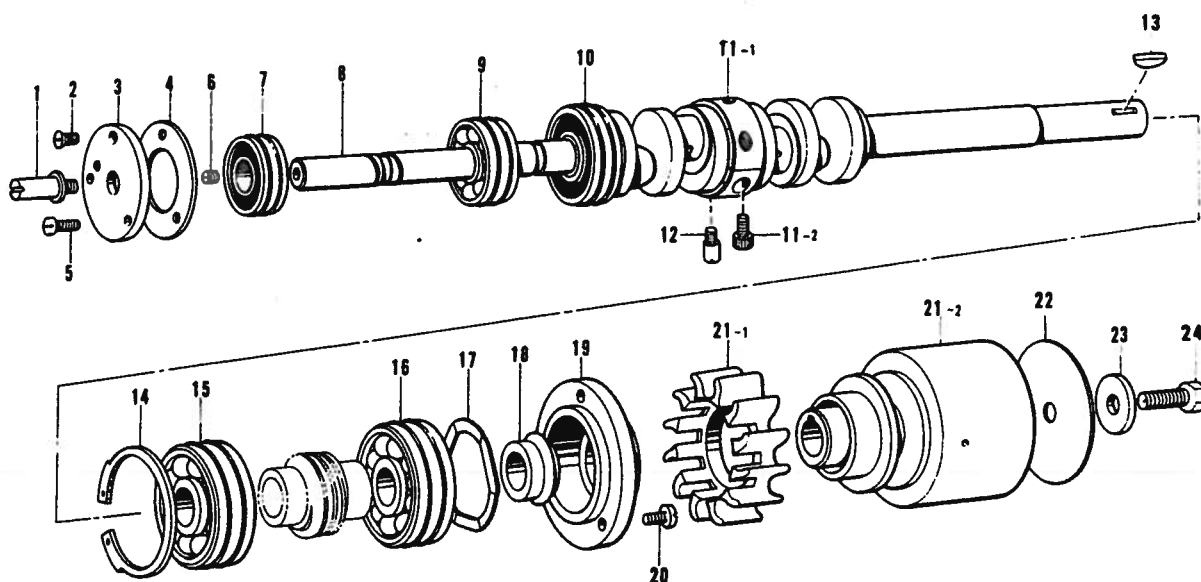
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B-1	Needle Arm	1	154897-0-01		B-20	Needle Bar Clamp	1	154900-0-01	
B-2	Screw 3.57	1	148834-0-01		B-21	Spacer	1	154901-0-01	
B-3	Pin	1	154899-0-01		B-22	Screw 3.57 x 6	1	009670-6-12	
B-4	Needle Arm Supporter	1	154895-0-01		B-23	Needle Bar Bushing (D)	1	154905-0-00	
B-5	Needle Bar Cap	1	154903-0-01		B-24	Chain Stitch Needle Guard (F)	1	146496-2-01	
B-6	Screw 3.18	1	146427-0-01		B-25	Screw 3.57 x 6	1	009670-6-12	
B-7	Needle Arm Bushing	1	154896-0-00		B-26	Needle DC x 27	2	151474-0-	
B-8	Screw 6.35	1	014780-6-22		B-27	Cloth Plate Lever Stopper	1	146454-0-01	
B-9	Collar	1	110197-0-01		B-28	Screw 3.57 x 6	1	009670-6-12	
B-10	Screw 4.37	2	014680-4-22		B-29	Cloth Plate Lever	1	154833-0-01	
B-11	Needle Bar Crank Shaft	1	154891-0-01		B-30	Stud Screw 3.57	1	146453-0-01	
B-12	Needle Bar Bushing (Left)	1	154894-0-00		B-31	Spring	1	146452-0-01	
B-13	Needle Bar Bushing (Right)	1	154892-0-00		B-32	Nut	1	021670-2-02	
B-14-1	Set Collar	2		B-14 Collar Assembly 155863-0-01	B-33	Screw 3.57 x 14	1	009671-4-12	
B-14-2	Screw 5.95	4	152718-0-01		B-34	Needle Plate Support Bracket	1	154922-0-01	
B-15-1	Needle Bar Crank Shaft Arm	1		*B-15 Needle Arm Driving Crank Rod Assembly 154888-0-01	B-35	Bolt 6.35 x 20	2	017782-0-12	
B-15-2	Pin	1			B-36	Needle Plate Supporter (F)	1	146494-0-01	
B-15-3	Screw 4.37	1	100366-0-01		B-37	Screw 4.37 x 5	2	001680-5-12	
B-15-4	Needle Arm Driving Crank Rod	1			B-38	Cloth Plate Cushion (B)	1	111486-0-01	
B-15-5	Screw 4.37 x 14	2	148425-0-01		B-39	Needle Plate Supporter (B)	1	146495-0-01	
B-16	Bolt 6.35 x 16	1	149170-0-01		B-40	Screw 4.37 x 5	2	001680-5-12	
B-17	Wick 8 x 8 (52)	1	140320-0-00		B-41	Screw 4.37	2	100032-0-03	
B-18	Needle Bar Bushing (U)	1	154904-0-00		B-42	Chain Stitch Needle Guide (B)	1	146497-1-01	
B-19	Needle Bar	1	154902-0-01		B-43	Screw 4.37 x 7	1	009680-7-12	

B. Needle Bar Mechanism (2)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B-50-1	Needle Clamp 2	1	146427-0-01	B-50 Needle Clamp 2 Assembly 154914-0-01	B-54	Needle Plate	1		
B-50-2	Screw 3.18	2			B-55	Needle Plate	1		
B-51-1	Needle Clamp 3	1	146427-0-01	B-51 Needle Clamp 3 Assembly 154916-0-01	B-56	Needle Plate	1		
B-51-2	Screw 3.18	2			B-57	Needle Plate (Ruffling, Ruffling W/piping)	1		
B-52-1	Needle Clamp 5	1	146427-0-01	B-52 Needle Clamp 5 Assembly 154918-0-01	B-58	Needle Plate (Ruffling, Ruffling W/piping)	1		
B-52-2	Screw 3.18	2			B-59	Needle Plate (Ruffling, Ruffling W/piping)	1		
B-53-1	Needle Clamp 7	1	146427-0-01	B-53 Needle Clamp 7 Assembly 154920-0-01	B-60	Needle Plate (Binding)	1		
B-53-2	Screw 3.18	2			B-61	Needle Plate (Denim)	1		
					B-62	Needle Plate	1		

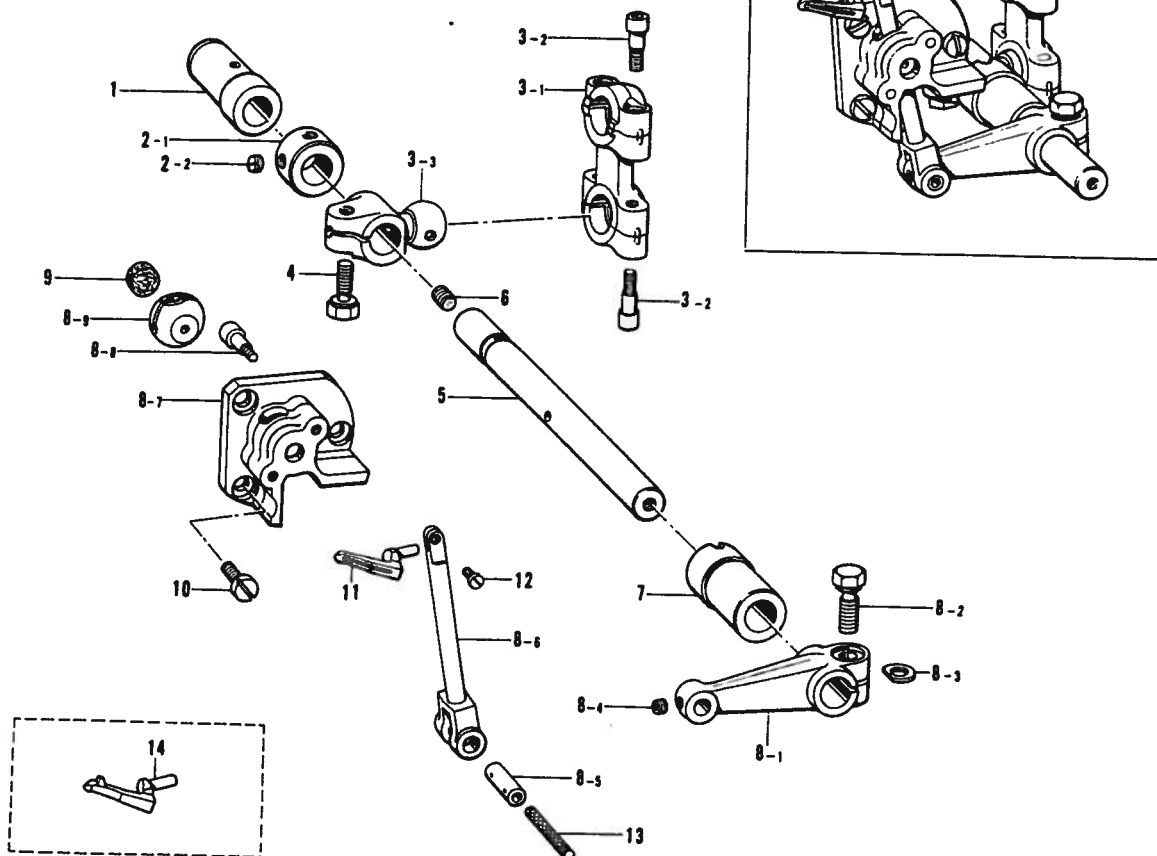
C. Crank Shaft Mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C- 1	Shaft	1	154866-0-01		C-13	Key	1	154885-0-01	
C- 2	Screw 3.57	1	102538-0-02		C-14	Stop Ring	1	154876-0-01	
C- 3	Bearing Cap	1	154867-0-01		C-15	Bearing 6302	1	154877-0-01	
C- 4	Packing	1	154869-0-00		C-16	Bearing 6302Z	1	154878-0-01	
C- 5	Screw 3.57 x 8	2	009670-8-12		C-17	Spring	1	154880-0-01	
C- 6	Screw 4.76	1	013719-4-12		C-18	Oil Rejector	1	154879-0-00	
C- 7	Bearing 6001Z	1	154870-0-01		C-19	Bearing Presser	1	154881-0-00	
C- 8	Crank Shaft	1	*154865-0-01		C-20	Screw 4.37 x 10	3	009681-0-12	
C- 9	Bearing 6201Z	1	154871-0-01		C-21-1	Fan	1		C-21 Pulley Assembly 154882-0-01
C-10	Bearing 6202Z	1	154872-0-01		C-21-2	Pulley	1		
C-11-1	Crank Shaft Bushing	1		C-11 Crank Shaft Bushing Assembly 154873-0-01	C-22	Pulley Cover	1	154887-0-01	
C-11-2	Screw 4.37 x 14	2	148425-0-01		C-23	Washer	1	154886-0-01	
C-12	Screw 4.37	1	154875-0-01		C-24	Bolt 6.35 x 14	1	017771-4-12	

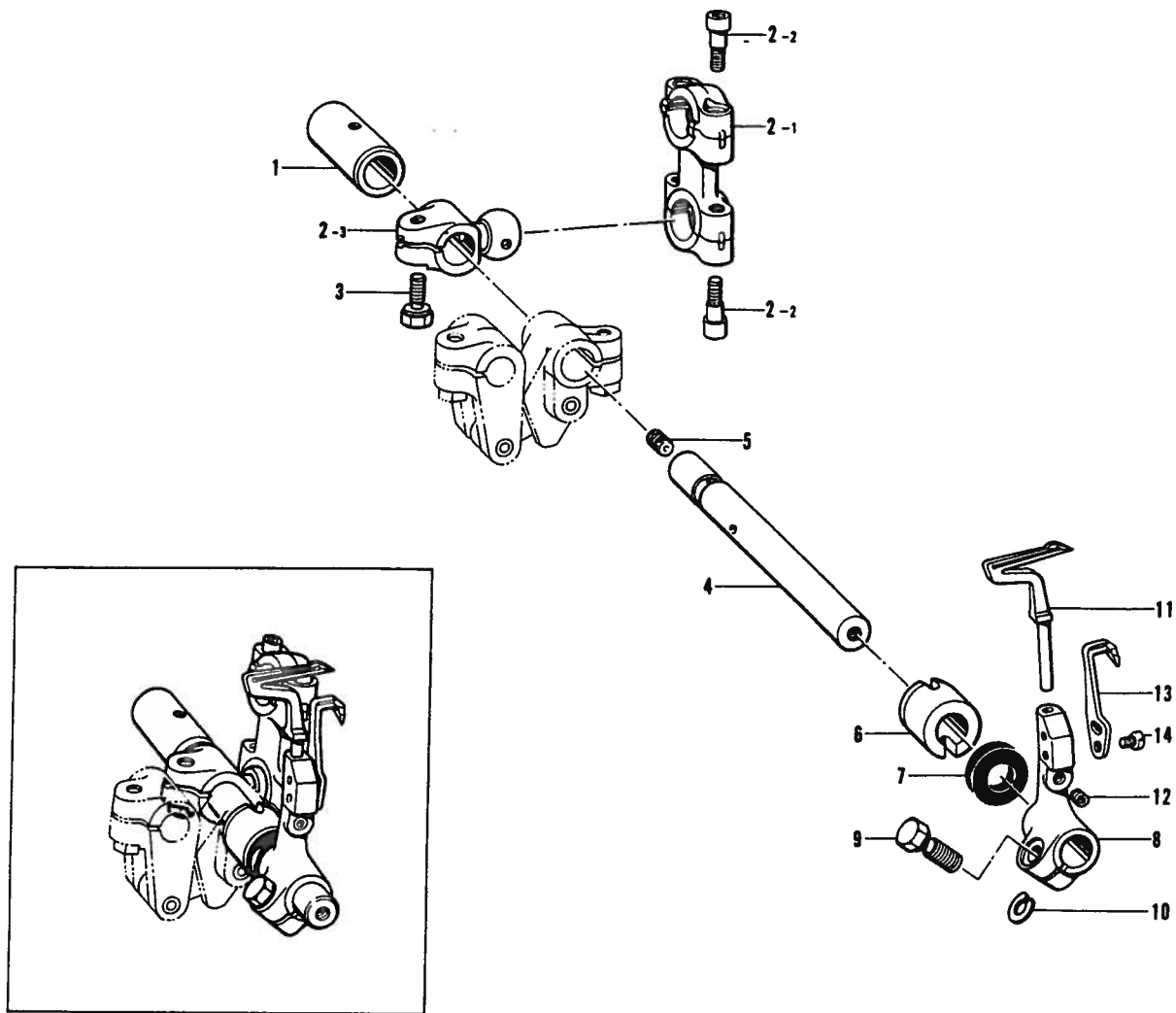
*Crank Shaft Assembly (B-15, C-8, D-3, E-2, J-5) 155319-0-01

D. Over Looper Mechanism



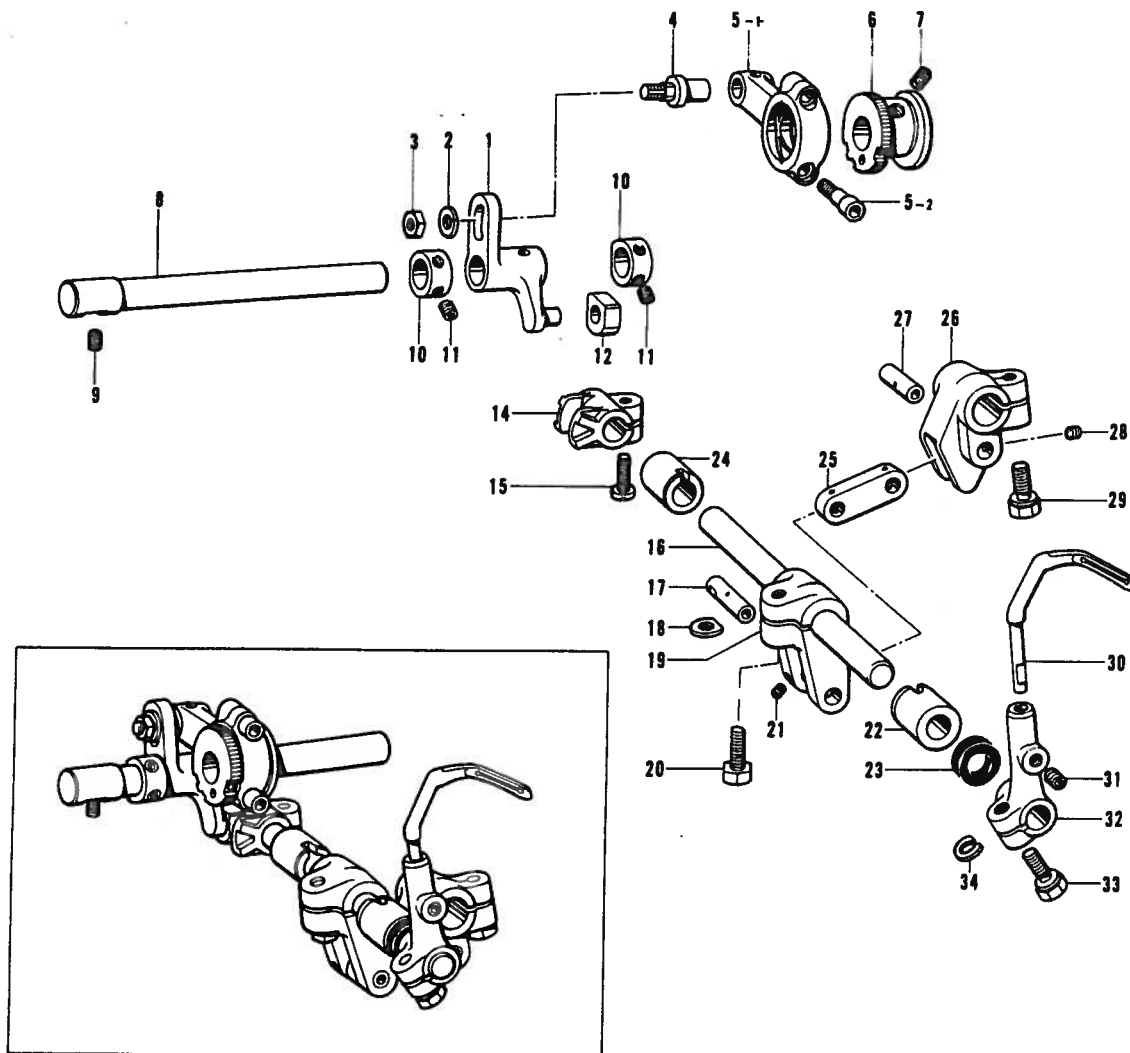
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D- 1	Bushing (B)	1	155229-0-00		D- 8-3	Spacer	1	155162-0-01	
D- 2-1	Set Collar	1		D-2 Collar Assembly 155863-0-01	D- 8-4	Screw 3.57	1	148294-0-01	
D- 2-2	Screw 5.95	2	152718-0-01		D- 8-5	Over Looper Holding Shaft	1		D-8 Over Looper Assembly 155231-0-01
D- 3-1	Looper Connecting Rod	1		*D-3 Looper Connecting Rod Assembly 155225-0-01	D- 8-6	Over Looper Holder	1		
D- 3-2	Screw 4.37 x 14	4	148425-0-01		D- 8-7	Over Looper Holder Guide Base	1		
D- 3-3	Looper Connecting Lever	1			D- 8-8	Screw 4.37 x 14	2	148425-0-01	
D- 4	Bolt 6.35 x 14	1	155516-0-01		D- 8-9	Over Looper Holder Guide Block	1		
D- 5	Looper Shaft	1	155228-0-01		D- 9	Felt	1	155238-0-00	
D- 6	Screw 5.56	1	013750-5-12		D-10	Screw 4.37 x 8	3	009680-8-12	
D- 7	Bushing (F)	1	155230-0-00		D-11	Over Looper	1	155240-0-01	
D- 8-1	Over Looper Driving Lever	1		D-8 Over Looper Assembly 155231-0-01	D-12	Screw 3.18 x 6	1	009660-6-12	
D- 8-2	Bolt 6.35 x 16	1	149170-0-01		D-13	Wick 6 x 6 (32)	1	140417-0-00	
					D-14	Spreader	1	155241-0-01	

E. Under Looper Mechanism



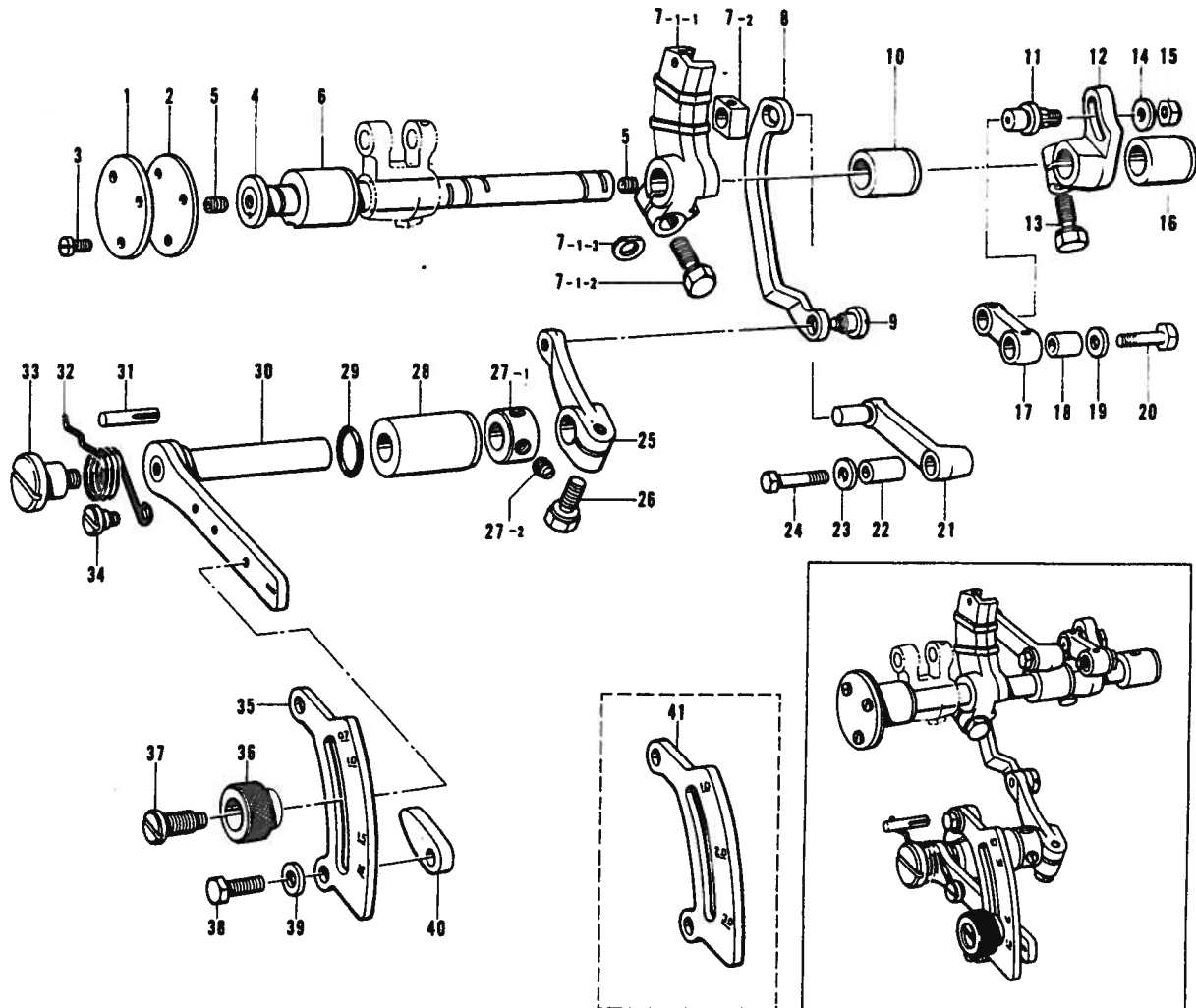
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E- 1	Under Looper Shaft Bushing (B)	1	155245-0-00		E- 7	Seal	1	155247-0-00	
E- 2-1	Looper Connecting Rod	1		*E-2 Looper Connecting Rod Assembly 155225-0-01	E- 8	Under Looper Holder	1	155248-0-01	
E- 2-2	Screw 4.37 x 14	4	148425-0-01		E- 9	Bolt 5.56 x 14	1	149171-0-01	
E- 2-3	Looper Connecting Lever	1			E-10	Spacer	1	148782-0-01	
E- 3	Bolt 6.35 x 14	1	155516-0-01		E-11	Under Looper	1	144049-0-01	
E- 4	Under Looper Shaft	1	155244-0-01		E-12	Screw 4.37	1	014680-4-22	
E- 5	Screw 5.56	1	013750-5-12		E-13	Movable Needle Guard	1	144127-0-02	
E- 6	Under Looper Shaft Bushing (F)	1	155246-0-00		E-14	Screw 3.57 x 8	2	009670-8-12	

F. Double Chain Stitch Looper Mechanism



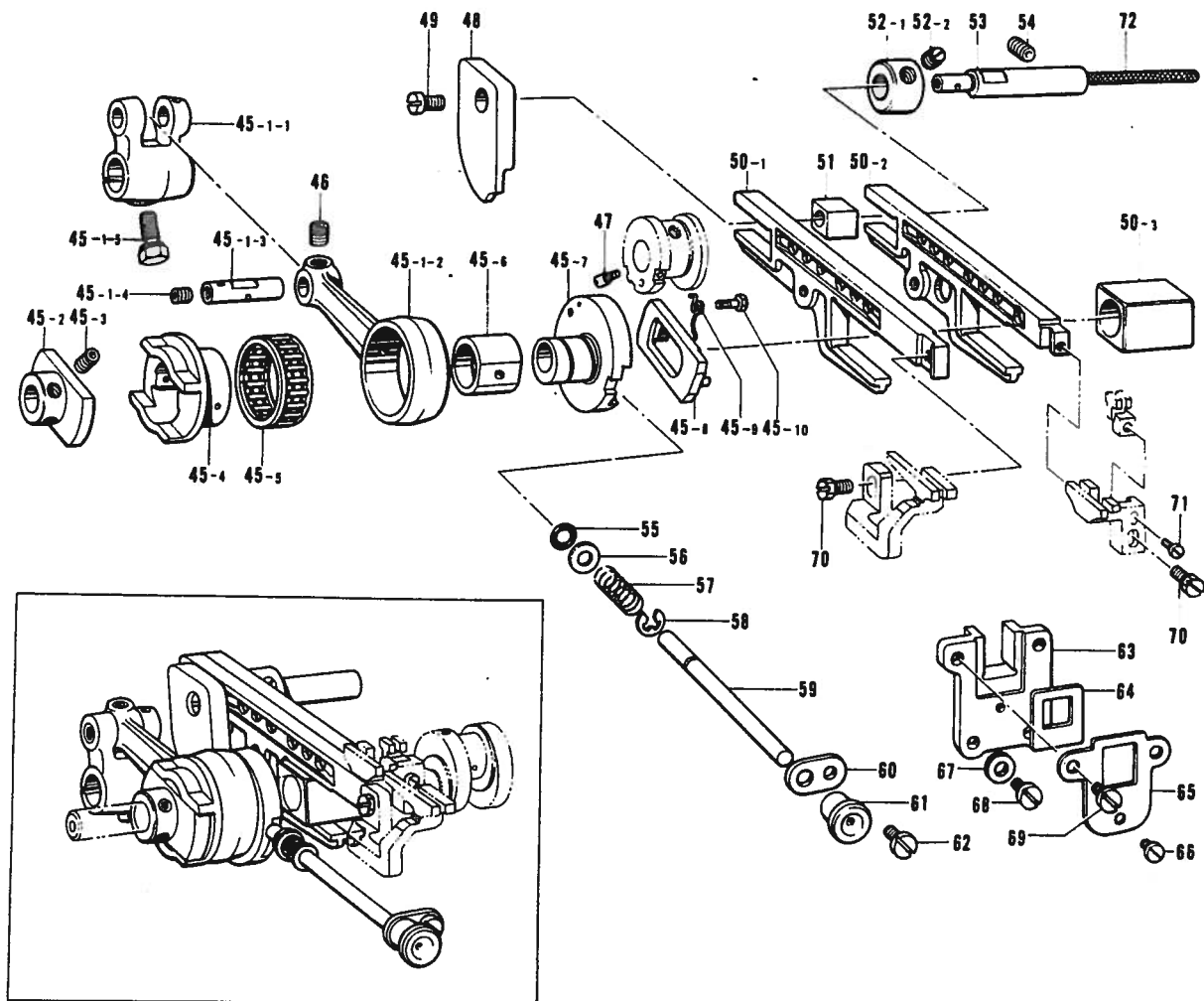
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F- 1	Longitudinal Feed Lever	1	155252-0-01		F-18	Spacer	1	148783-0-01	
F- 2	Washer	1	113431-0-02		F-19	Chain Stitch Looper Driving Lever	1	148240-0-01	
F- 3	Nut	1	148838-0-01		F-20	Bolt 5.95 x 14	1	017761-4-12	
F- 4	Pin	1	155253-0-01		F-21	Screw 3.18	1	146427-0-01	
F- 5-1	Longitudinal Feed Driving Rod	1		F-5 Longitudinal Feed Assembly 155250-0-01	F-22	Bushing (Front)	1	155260-0-00	
F- 5-2	Screw 4.37 x 14	2	148425-0-01		F-23	Seal	1	155261-0-00	
F- 6	Longitudinal Eccentric Cam	1	155249-0-01		F-24	Bushing (Rear)	1	155259-0-00	
F- 7	Screw 4.37	2	014680-4-22		F-25	Double-Chain Stitch Link	1	155257-0-01	
F- 8	Longitudinal Feed Lever Shaft	1	155254-0-01		F-26	Driving Arm	1	155256-0-01	
F- 9	Screw 4.37	1	014680-6-22		F-27	Under Looper Holder Pin	1	148232-0-01	
F-10	Set Coller	2	155533-0-01		F-28	Screw 3.57	1	148294-0-01	
F-11	Screw 4.37	4	014680-4-22		F-29	Bolt 6.35 x 14	1	155516-0-01	
F-12	Slide Block	1	140313-0-01		F-30	Chain Stitch Looper	1	146635-0-01	
F-14	Longitudinal Feed Cam	1	155255-0-01		F-31	Screw 4.37	1	014680-4-22	
F-15	Screw 4.76 x 12	1	009711-2-12		F-32	Chain Stitch Looper Holder	1	155262-0-01	
F-16	Longitudinal Feed Shaft	1	155258-0-01		F-33	Bolt 5.56 x 14	1	149171-0-01	
F-17	Chain Stitch Looper Driving Lever Pin	1	148241-0-01		F-34	Spacer	1	148782-0-01	

G. Feed Mechanism (1)



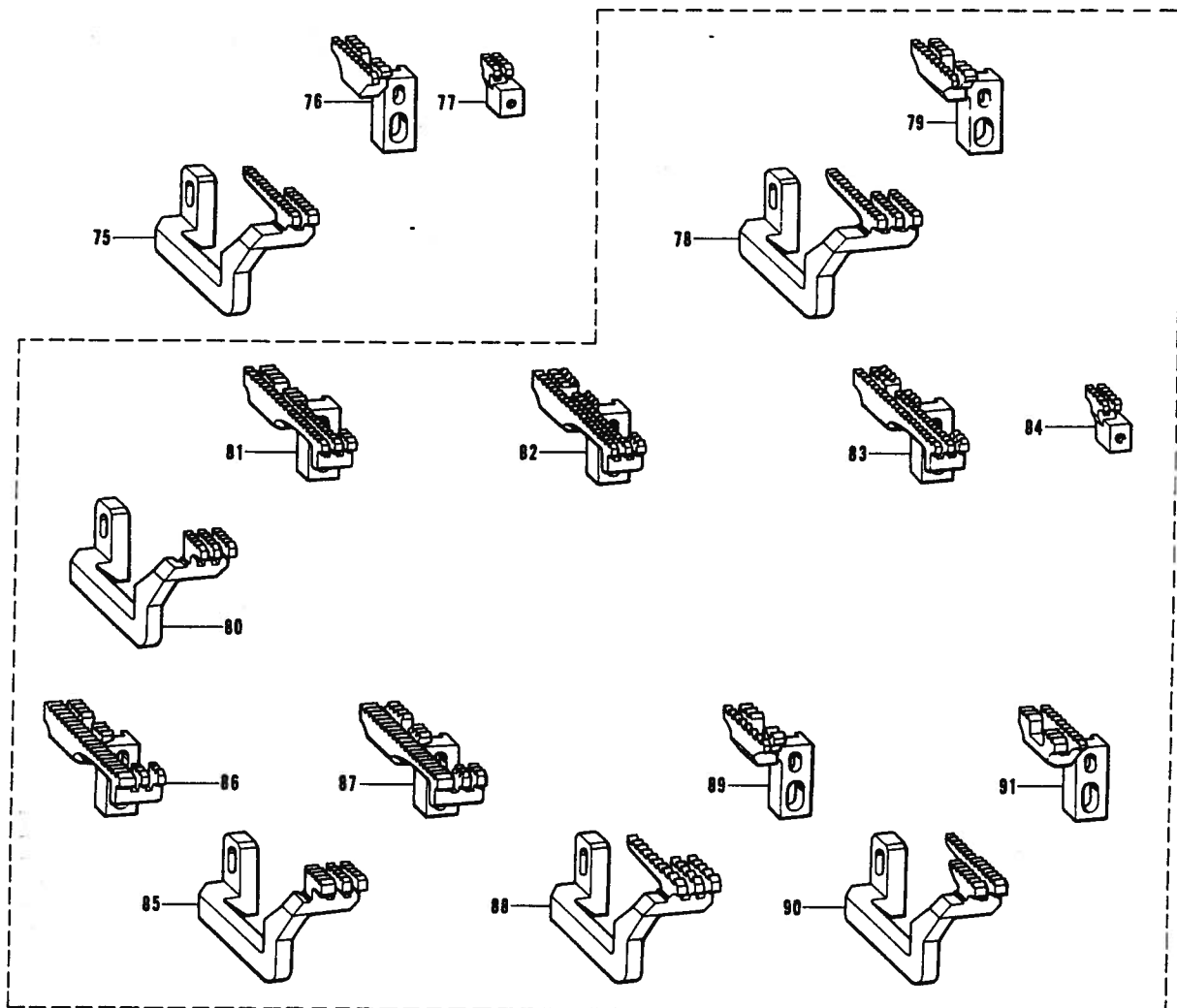
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-1	Cover for Feed Shaft Busing (L)	1	155144-0-01		G-21	Differential Feed Link	1	155164-0-01	
G-2	Packing	1	155145-0-00		G-22	Differential Feed Link Bushing	1	155165-0-01	
G-3	Screw 3.57 x 8	3	009670-8-12		G-23	Washer	1	155157-0-01	
G-4	Feed Shaft	1	155140-0-01		G-24	Feed Link Shaft (Large)	1	140217-0-01	
G-5	Screw 5.56	2	014770-6-22		G-25	Differential Feed Link Lever	1	155168-0-01	
G-6	Feed Shaft Bushing (L)	1	155141-0-00		G-26	Bolt 6.35 x 14	1	155516-0-01	
G-7-1-1	Differential Feed Arm	1		G-7 Differential Feed Arm Block Assembly 155159-0-01	G-27-1	Set Collar	1		G-27 Collar Assembly 181969-0-03
G-7-1-2	Bolt 6.35 x 16	1	149170-0-01		G-27-2	Screw 6.35	2	101706-0-01	
G-7-1-3	Spacer	1	155162-0-01		G-28	Adjusting Lever Bushing	1	155170-0-00	
G-7-2	Differential Feed Block	1			G-29	"O" Ring	1	109203-0-01	
G-8	Differential Feed Adjuster Link	1	155166-0-01		G-30	Differential Feed Adjusting Lever	1	155169-0-01	
G-9	Screw 5.56	1	155167-0-01		G-31	Pin	1	140063-0-01	
G-10	Feed Shaft Bushing (M)	1	155142-0-00		G-32	Spring	1	155171-0-01	
G-11	Main Feed Link Shaft	1	155155-0-01		G-33	Stud Screw 5.56	1	146559-0-01	
G-12	Main Feed Arm	1	155154-0-01		G-34	Stud Screw 4.76	1	100294-0-02	
G-13	Bolt 6.35 x 16	1	149170-0-01		G-35	Differential Stitch Control	1	155172-0-01	
G-14	Washer	1	113431-0-02		G-36	Knob	1	155175-0-01	
G-15	Nut	1	148838-0-01		G-37	Screw	1	155176-0-01	
G-16	Feed Shaft Bushing (R)	1	155143-0-00		G-38	Bolt 6.35 x 14	2	017781-4-12	
G-17	Main Feed Link	1	155158-0-01		G-39	Washer	2	118735-0-02	
G-18	Main Feed Link Bushing	1	155156-0-01		G-40	Stopper for Differential Stitch Control	2	146563-0-01	
G-19	Washer	1	155157-0-01		G-41	Differential Stitch Control (Ruffling)	1	155174-0-01	
G-20	Main Feed Link Shaft (Small)	1	140210-0-01						

G. Feed Mechanism (2)



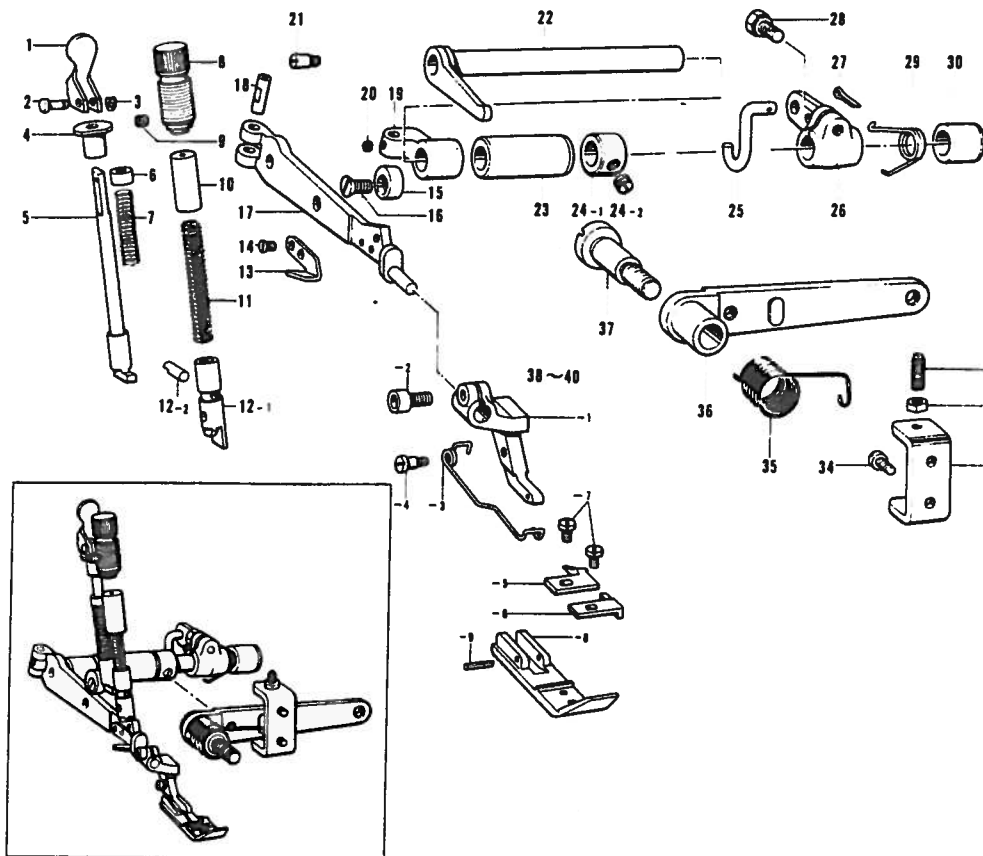
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-45-1-1	Feed Arm	1		G-45 Eccentric Wheel Assembly 155125-0-01	G-52-1	Set Collar	1		G-52 Collar Assembly 181969-0-03
G-45-1-2	Feed Rod	1			G-52-2	Screw 6.35	2	101706-0-01	
G-45-1-3	Pin	1			G-53	Feed Bar Guide Block Shaft	1	155152-0-01	
G-45-1-4	Screw 6.35	1	014770-6-22		G-54	Screw 6.35	1	014780-6-22	
G-45-1-5	Bolt 6.35 x 16	1	149170-0-01		G-55	Packing	1	118770-0-01	
G-45-2	Eccentric Wheel Holder	1			G-56	Washer	1	113431-0-02	
G-45-3	Screw 4.37	2	014680-4-22		G-57	Spring	1	155139-0-01	
G-45-4	Eccentric Wheel	1			G-58	Stop Ring	1	048040-3-42	
G-45-5	Needle Roller Bearing 28	1			G-59	Feed Adjusting Shaft	1	155138-0-01	
G-45-6	Adjuster Eccentric Wheel Block	1			G-60	Supporter for Feed Adjusting Shaft	1	146536-0-01	
G-45-7	Adjuster Eccentric Wheel	1		G-50 Feed Bar Guide Block Assembly 155146-0-01	G-61	Cap	1	155348-0-00	
G-45-8	Ratchet Stopper	1			G-62	Screw 3.57 x 6	1	009670-6-12	
G-45-9	Spring	1	155132-0-01		G-63	Feed Bar Guide	1	155151-0-00	
G-45-10	Stud Screw 2.38	1	155133-0-01		G-64	Fragment Protector	1	155177-0-00	
G-46	Screw 4.37	1	014680-4-22		G-65	Fragment Protector Plate	1	155178-0-01	
G-47	Screw 2.38	1	155560-0-01		G-66	Screw 3.57	1	106568-0-03	
G-48	Differential Link Guide	1	155153-0-00		G-67	Washer	2	100645-0-03	
G-49	Screw 4.37 x 7	1	009680-7-12		G-68	Screw 4.37	2	107407-0-03	
G-50-1	Differential Feed Bar	1			G-69	Screw 4.37	2	107407-0-03	
G-50-2	Main Feed Bar	1			G-70	Bolt 4.37	2	117516-0-01	
G-50-3	Feed Lifting Slide Block	1			G-71	Screw 2.38 x 8	1	009630-8-12	
G-51	Feed Bar Guide Block	1	146547-0-00		G-72	Wick 8 x 8 (90)	1	147362-0-00	

G. Feed Mechanism (3)



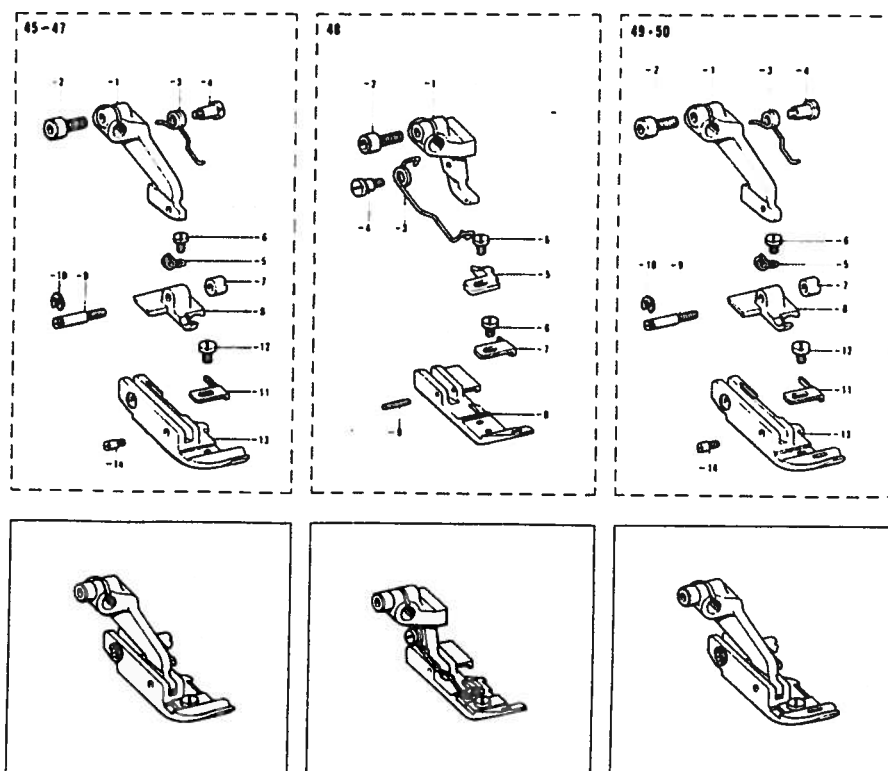
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-75	Differential Feed Dog	1	146572-0-01		G-84	Chain Feed Dog (Ruffling, Ruffling W/piping)	1	146578-0-01	
G-76	Main Feed Dog	1	146567-0-01		G-85	Differential Feed Dog (Ruffling, Ruffling W/piping)	1	146576-0-01	
G-77	Chain Feed Dog	1	146577-0-01		G-86	Main Feed Dog (Ruffling)	1	146571-0-01	
G-78	Differential Feed Dog	1	146573-0-01		G-87	Main Feed Dog (Ruffling W/piping)	1	147831-0-01	
G-79	Main Feed Dog	1	146568-0-01		G-88	Differential Feed Dog (Denim)	1	146574-0-01	
G-80	Differential Feed Dog (Ruffling, Ruffling W/piping)	1	146575-0-01		G-89	Main Feed Dog (Denim)	1	146569-0-01	
G-81	Main Feed Dog (Ruffling)	1	146570-0-01		G-90	Differential Feed Dog	1	151470-0-01	
G-82	Main Feed Dog (Ruffling W/piping)	1	147829-0-01		G-91	Main Feed Dog	1	151469-0-01	
G-83	Main Feed Dog (Ruffling W/piping)	1	147830-0-01						

H. Presser Foot Mechanism (1)



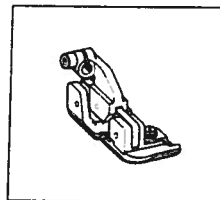
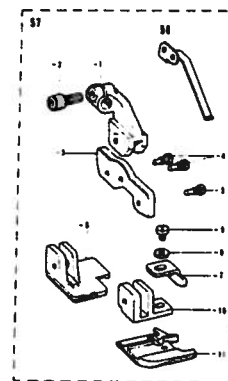
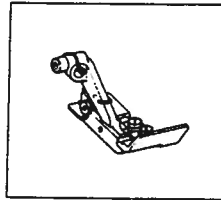
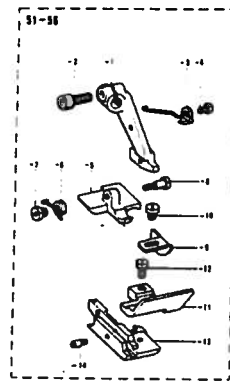
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H-1	Presser Bar Lifter	1	147759-0-01		H-31	Lever Adjuster Plate	1	146522-0-01	
H-2	Presser Bar Lifter Pin	1	144084-0-01		H-32	Nut	2	110161-0-06	
H-3	Stop Ring	1	048020-3-42		H-33	Screw 4.76	2	153483-0-01	
H-4	Washer	1	144083-0-01		H-34	Screw 4.37 x 7	2	009680-7-12	
H-5	Presser Bar Lifter Shaft	1	154952-0-01		H-35	Spring	1	143325-0-01	
H-6	Bushing	1	154954-0-01		H-36	Presser Foot Lifter Lever	1	143323-1-03	
H-7	Spring	1	154953-0-01		H-37	Stud Screw 7.94	1	148372-0-01	
H-8	Screw	1	154946-0-01		H-38-1	Sub-Presser Arm	1		
H-9	Screw 3.18	1	146427-0-01		H-38-2	Bolt 3.57 x 8	1	154965-0-01	
H-10	Spring Presser	1	154951-0-01		H-38-3	Spring	1	142246-0-01	
H-11	Spring	1	154950-0-01		H-38-4	Screw	1	142247-0-01	
H-12-1	Presser Bar	1		H-12 Presser Bar Assembly 154947-0-01	H-38-5	Stitch Tongue	1	142244-0-01	
H-12-2	Pin	1			H-38-6	Chip Guard (3)	1	142245-0-01	
H-13	Trimming Knife	1	148259-0-01		H-38-7	Screw 2.38 x 3.5	2	009639-3-12	
H-14	Screw 3.18	2	141542-0-01		H-38-8	Presser Foot 2C	1		
H-15	Presser Arm Stopper	1	144088-0-01		H-38-9	Pin	1	142243-0-01	
H-16	Screw 4.76	1	107231-0-02		H-39-1	Sub-Presser Arm	1		
H-17	Main Presser Arm	1	154960-0-01		H-39-2	Bolt 3.57 x 8	1	154965-0-01	
H-18	Pin for Presser Arm Shaft	1	154962-0-01		H-39-3	Spring	1	151466-0-01	
H-19	Presser Arm Supporter	1	154961-0-01		H-39-4	Screw	1	142247-0-01	
H-20	Screw 4.37	1	153675-0-01		H-39-5	Stitch Tongue	1	142244-0-01	
H-21	Screw 4.37	2	154875-0-01		H-39-6	Chip Guard (3)	1	142245-0-01	
H-22	Presser Arm Shaft	1	154959-0-01		H-39-7	Screw 2.38 x 3.5	2	009639-3-12	
H-23	Bushing (Left)	1	154958-0-00		H-39-8	Presser Foot 3C	1		
H-24-1	Set Collar	1		H-24 Collar Assembly 181969-0-03	H-39-9	Pin	1	142243-0-01	
H-24-2	Screw 6.35	2	101706-0-01		H-40-1	Sub-Presser Arm	1		
H-25	Presser Foot Lifter Link	1	154955-0-01		H-40-2	Bolt 3.57 x 8	1	154965-0-01	
H-26	Presser Foot Lifter Inside Lever	1	154956-0-01		H-40-3	Spring	1	151466-0-01	
H-27	Pin	1	110793-0-01		H-40-4	Screw	1	142247-0-01	
H-28	Bolt 6.35 x 16	1	149170-0-01		H-40-5	Stitch Tongue	1	151464-0-01	
H-29	Spring	1	154957-0-01		H-40-6	Presser Foot (Front)	1	151465-0-01	
H-30	Bushing (Right)	1	140262-0-00		H-40-7	Screw 2.38 x 3.5	2	009639-3-12	
					H-40-8	Presser Foot	1		
					H-40-9	Pin	1	142243-0-01	

H. Presser Foot Mechanism (2)



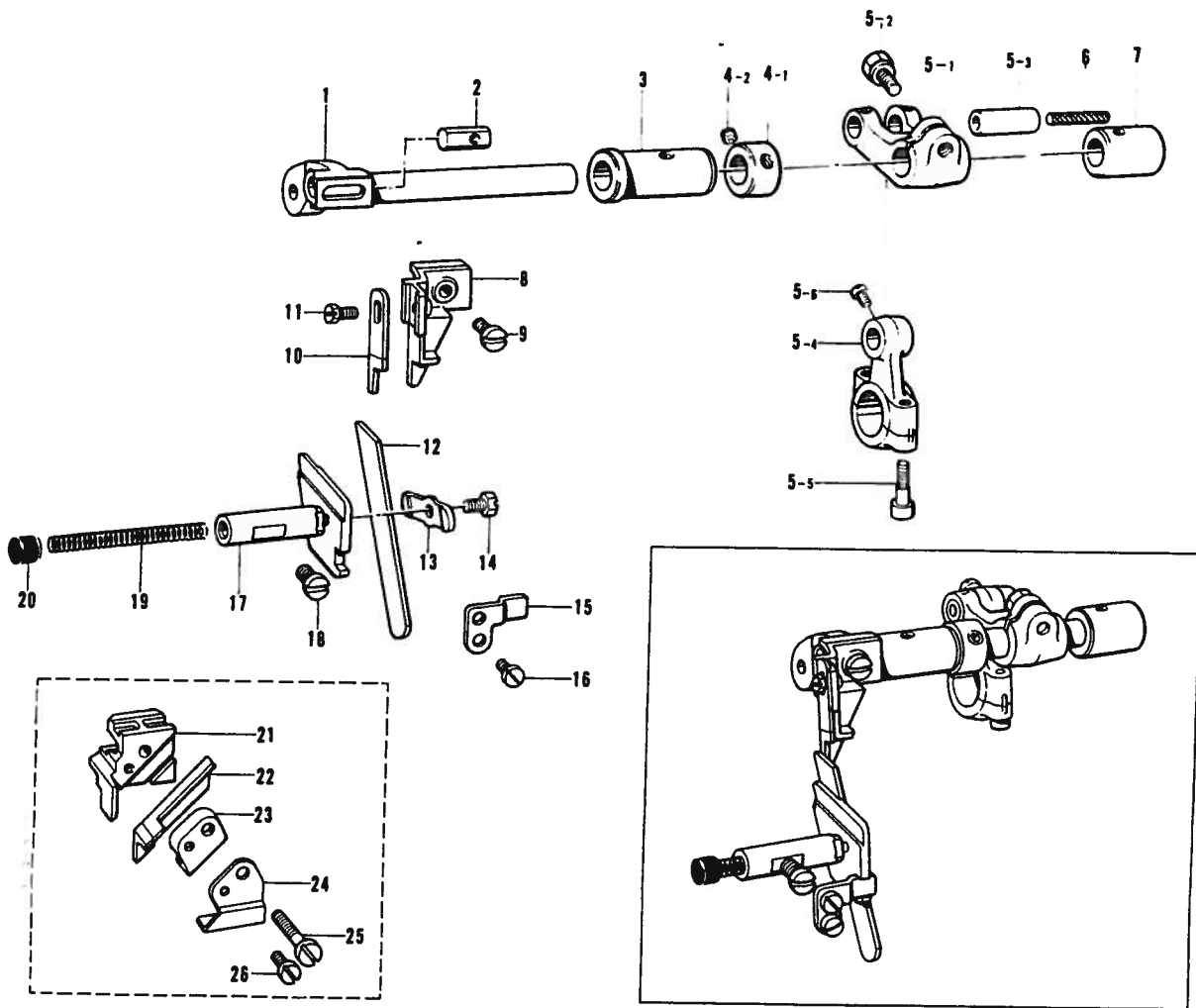
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H-45- 1	Sub-Presser Arm	1		H-45 Presser Foot Assembly 156062-0-01	H-47-13	Presser Foot	1		H-47 156199-0-01 (Binding)
H-45- 2	Bolt 3.57 x 8	1	154965-0-01		H-47-14	Screw	1	146865-0-01	
H-45- 3	Spring	1	155102-0-01		H-48- 1	Sub-Presser Arm	1		H-48 Presser Foot Assembly 155121-0-01 (Taping)
H-45- 4	Screw 3.18	1	155103-0-01		H-48- 2	Bolt 3.57 x 8	1	154965-0-01	
H-45- 5	Spring	1	146870-0-01		H-48- 3	Spring	1	142246-0-01	
H-45- 6	Screw 2.38	1	122771-0-02		H-48- 4	Screw	1	142247-0-01	
H-45- 7	Nut 3.18	1	149262-0-01		H-48- 5	Stitch Tongue	1	142244-0-01	
H-45- 8	Presser Foot (Rear)	1	156065-0-01		H-48- 6	Screw 2.38 x 3.5	2	009639-3-12	
H-45- 9	Screw	1	149261-0-01		H-48- 7	Chip Guard (3)	1	142245-0-01	
H-45-10	Stop Ring	1	048025-3-42		H-48- 8	Presser Foot	1		
H-45-11	Presser Foot (Front)	1	145147-0-01		H-48- 9	Pin	1	142243-0-01	
H-45-12	Screw 2.38	1	105288-0-01		H-49- 1	Sub-Presser Arm			H-49 Presser Foot Assembly 156195-0-01 (Taping)
H-45-13	Presser Foot	1			H-49- 2	Bolt 3.57 x 8	1	154965-0-01	
H-45-14	Screw	1	146865-0-01		H-49- 3	Spring	1	155102-0-01	
H-46- 1	Sub-Presser Arm	1		H-46 Presser Foot Assembly 156066-0-01	H-49- 4	Screw	1	155103-0-01	
H-46- 2	Bolt 3.57 x 8	1	154965-0-01		H-49- 5	Spring	1	146870-0-01	
H-46- 3	Spring	1	155102-0-01		H-49- 6	Screw 2.38	1	122771-0-02	
H-46- 4	Screw 3.18	1	155103-0-01		H-49- 7	Nut 3.18	1	149262-0-01	
H-46- 5	Spring	1	146870-0-01		H-49- 8	Presser Foot (Rear)	1	156065-0-01	
H-46- 6	Screw 2.38	1	122771-0-02		H-49- 9	Screw	1	149261-0-01	
H-46- 7	Nut 3.18	1	149262-0-01		H-49-10	Stop Ring	1	048025-3-42	
H-46- 8	Presser Foot (Rear)	1	156069-0-01		H-49-11	Presser Foot (Front)	1	145147-0-01	
H-46- 9	Screw	1	149266-0-01		H-49-12	Screw 2.38	1	105288-0-01	
H-46-10	Stop Ring	1	048025-3-42		H-49-13	Presser Foot	1		
H-46-11	Presser Foot (Front)	1	145147-0-01		H-49-14	Screw	1	146865-0-01	
H-46-12	Screw 2.38	1	105288-0-01		H-50- 1	Sub-Presser Arm	1		H-50 Presser Foot Assembly 156197-0-01 (Taping)
H-46-13	Presser Foot	1			H-50- 2	Bolt 3.57 x 8	1	154965-0-01	
H-46-14	Screw	1	140270-0-01		H-50- 3	Spring	1	155102-0-01	
H-47- 1	Sub-Presser Arm	1		H-47 Presser Foot Assembly 156199-0-01 (Binding)	H-50- 4	Screw	1	155103-0-01	
H-47- 2	Bolt 3.57 x 8	1	154965-0-01		H-50- 5	Spring	1	146870-0-01	
H-47- 3	Spring	1	155102-0-01		H-50- 6	Screw 2.38	1	122771-0-02	
H-47- 4	Screw 3.18	1	155103-0-01		H-50- 7	Nut 3.18	1	149262-0-01	
H-47- 5	Spring	1	146870-0-01		H-50- 8	Presser Foot (Rear)	1	156069-0-01	
H-47- 6	Screw 2.38	1	122771-0-02		H-50- 9	Screw	1	149266-0-01	
H-47- 7	Nut 3.18	1	149262-0-01		H-50-10	Stop Ring	1	048025-3-42	
H-47- 8	Presser Foot (Rear)	1	156065-0-01		H-50-11	Presser Foot (Front)	1	145147-0-01	
H-47- 9	Screw	1	149261-0-01		H-50-12	Screw 2.38	1	105288-0-01	
H-47-10	Stop Ring	1	048025-3-42		H-50-13	Presser Foot	1		
H-47-11	Presser Foot (Front)	1	147371-0-01		H-50-14	Screw	1	140270-0-01	
H-47-12	Screw 2.38	1	105288-0-01						

H. Presser Foot Mechanism (3)



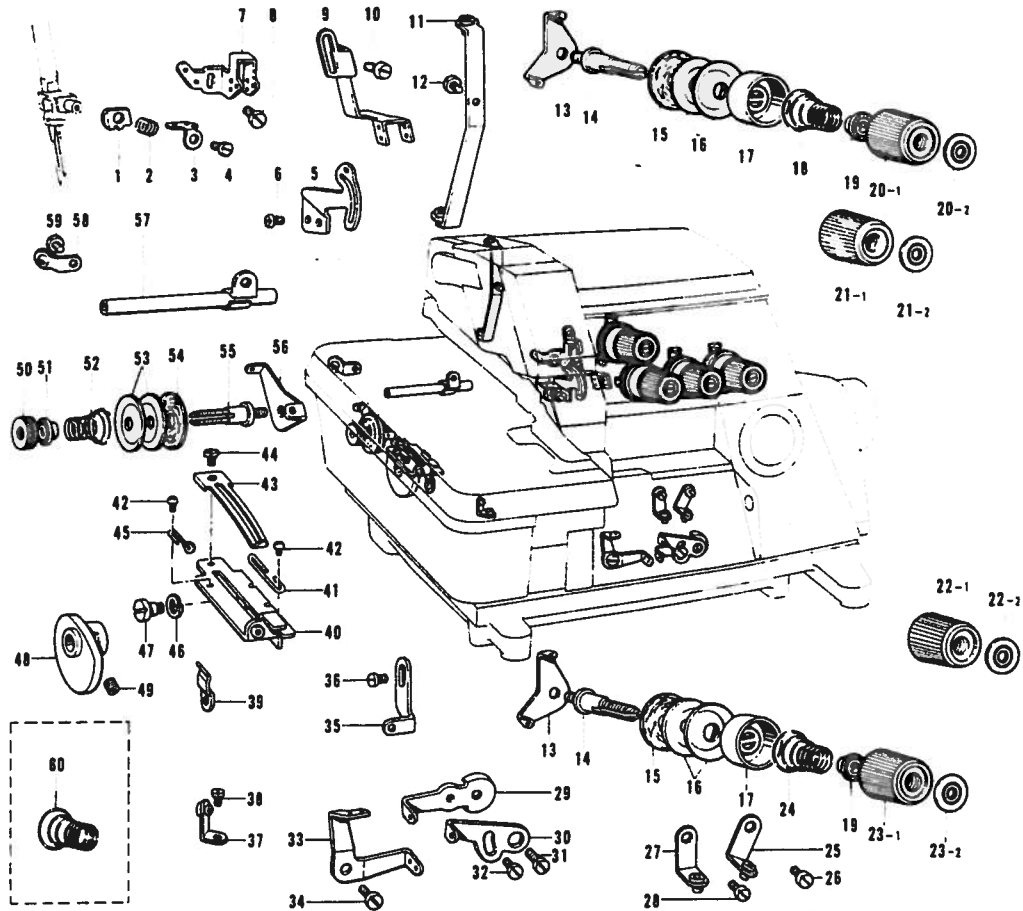
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H-51- 1	Sub-Presser Arm	1		H-51 Presser Foot Assembly 155109-0-01 (Ruffling)	H-54- 7	Nut	1	140273-0-01	H-54 Presser Foot Assembly 155113-0-01 (Ruffling W/piping)
H-51- 2	Bolt 3.57 x 8	1	154965-0-01		H-54- 8	Screw 3.18	1	140272-0-01	
H-51- 3	Spring	1	140993-0-01		H-54- 9	Presser Foot (Front)	1	144778-0-01	
H-51- 4	Screw	1	140992-0-01		H-54-10	Screw 2.38	1	105288-0-01	
H-51- 5	Presser Foot (Rear)	1	146880-0-01		H-54-11	Presser Foot (U)	1	144777-0-01	
H-51- 6	Spring	1	140275-0-01		H-54-12	Screw 3.18 x 7	1	009660-7-12	
H-51- 7	Nut	1	140273-0-01		H-54-13	Presser Foot	1		
H-51- 8	Screw 3.18	1	140272-0-01		H-54-14	Screw	1	140270-0-01	
H-51- 9	Presser Foot (Front)	1	144778-0-01		H-55- 1	Sub-Presser Arm	1		H-55 Presser Foot Assembly 155114-0-01 (Ruffling W/piping)
H-51-10	Screw 2.38	1	105288-0-01		H-55- 2	Bolt 3.57 x 8	1	154965-0-01	
H-51-11	Presser Foot (U)	1	144777-0-01		H-55- 3	Spring	1	140993-0-01	
H-51-12	Screw 3.18 x 7	1	009660-7-12		H-55- 4	Screw	1	140992-0-01	
H-51-13	Presser Foot	1			H-55- 5	Presser Foot (Rear)	1	147488-0-01	
H-51-14	Screw	1	140270-0-01		H-55- 6	Spring	1	140275-0-01	
H-52- 1	Sub-Presser Arm	1		H-52 Presser Foot Assembly 155111-0-01 (Ruffling)	H-55- 7	Nut	1	140273-0-01	
H-52- 2	Bolt 3.57 x 8	1	154965-0-01		H-55- 8	Screw 3.18	1	140272-0-01	
H-52- 3	Spring	1	140993-0-01		H-55- 9	Presser Foot (Front)	1	144778-0-01	
H-52- 4	Screw	1	140992-0-01		H-55-10	Screw 2.38	1	105288-0-01	
H-52- 5	Presser Foot (Rear)	1	140271-0-01		H-55-11	Presser Foot (U)	1	144777-0-01	
H-52- 6	Spring	1	140275-0-01		H-55-12	Screw 3.18 x 7	1	009660-7-12	
H-52- 7	Nut	1	140273-0-01		H-55-13	Presser Foot	1		
H-52- 8	Screw 3.18	1	140272-0-01		H-55-14	Screw	1	140270-0-01	
H-52- 9	Presser Foot (Front)	1	144778-0-01		H-56- 1	Sub-Presser Arm	1		H-56 Presser Foot Assembly 155115-0-01 (Ruffling W/piping)
H-52-10	Screw 2.38	1	105288-0-01		H-56- 2	Bolt 3.57 x 8	1	154965-0-01	
H-52-11	Presser Foot (U)	1	144777-0-01		H-56- 3	Spring	1	140993-0-01	
H-52-12	Screw 3.18 x 7	1	009660-7-12		H-56- 4	Screw	1	140992-0-01	
H-52-13	Presser Foot (E)	1			H-56- 5	Presser Foot (Rear)	1	147489-0-01	
H-52-14	Screw	1	140270-0-01		H-56- 6	Spring	1	140275-0-01	
H-53- 1	Sub-Presser Arm	1		H-53 Presser Foot Assembly 155112-0-01 (Ruffling)	H-56- 7	Nut	1	140273-0-01	
H-53- 2	Bolt 3.57 x 8	1	154965-0-01		H-56- 8	Screw 3.18	1	140272-0-01	
H-53- 3	Spring	1	140993-0-01		H-56- 9	Presser Foot (Front)	1	144778-0-01	
H-53- 4	Screw	1	140992-0-01		H-56-10	Screw 2.38	1	105288-0-01	
H-53- 5	Presser Foot (Rear)	1	140991-0-01		H-56-11	Presser Foot (U)	1	144777-0-01	
H-53- 6	Spring	1	140275-0-01		H-56-12	Screw 3.18 x 7	1	009660-7-12	
H-53- 7	Nut	1	140273-0-01		H-56-13	Presser Foot	1		
H-53- 8	Screw 3.18	1	140272-0-01		H-56-14	Screw	1	140270-0-01	
H-53- 9	Presser Foot (Front)	1	144778-0-01		H-57- 1	Sub-Presser Arm	1		H-57 Presser Foot Assembly 155118-0-01 (Denim)
H-53-10	Screw 2.38	1	105288-0-01		H-57- 2	Bolt 3.57 x 8	1	154965-0-01	
H-53-11	Presser Foot (U)	1	144777-0-01		H-57- 3	Presser Foot Supporter	1		
H-53-12	Screw 3.18 x 7	1	009660-7-12		H-57- 4	Screw 3.18	2	148015-0-01	
H-53-13	Presser Foot (D5)	1			H-57- 5	Screw 3.18	1	148015-0-01	
H-53-14	Screw	1	140270-0-01		H-57- 6	Presser Foot (Rear)	1	148019-0-01	
H-54- 1	Sub-Presser Arm	1		H-54 Presser Foot Assembly 155113-0-01 (Ruffling W/piping)	H-57- 7	Presser Foot (Front)	1	148020-0-01	
H-54- 2	Bolt 3.57 x 8	1	154965-0-01		H-57- 8	Washer	1	025030-2-32	
H-54- 3	Spring	1	140993-0-01		H-57- 9	Screw 3.18	1	009660-6-12	
H-54- 4	Screw	1	140992-0-01		H-57-10	Presser Foot Supporter	1	148017-0-01	
H-54- 5	Presser Foot (Rear)	1	147787-0-01		H-57-11	Presser Foot	1		
H-54- 6	Spring	1	140275-0-01		H-58	Spring Plate	1	154967-0-01	

J. Knives Mechanism



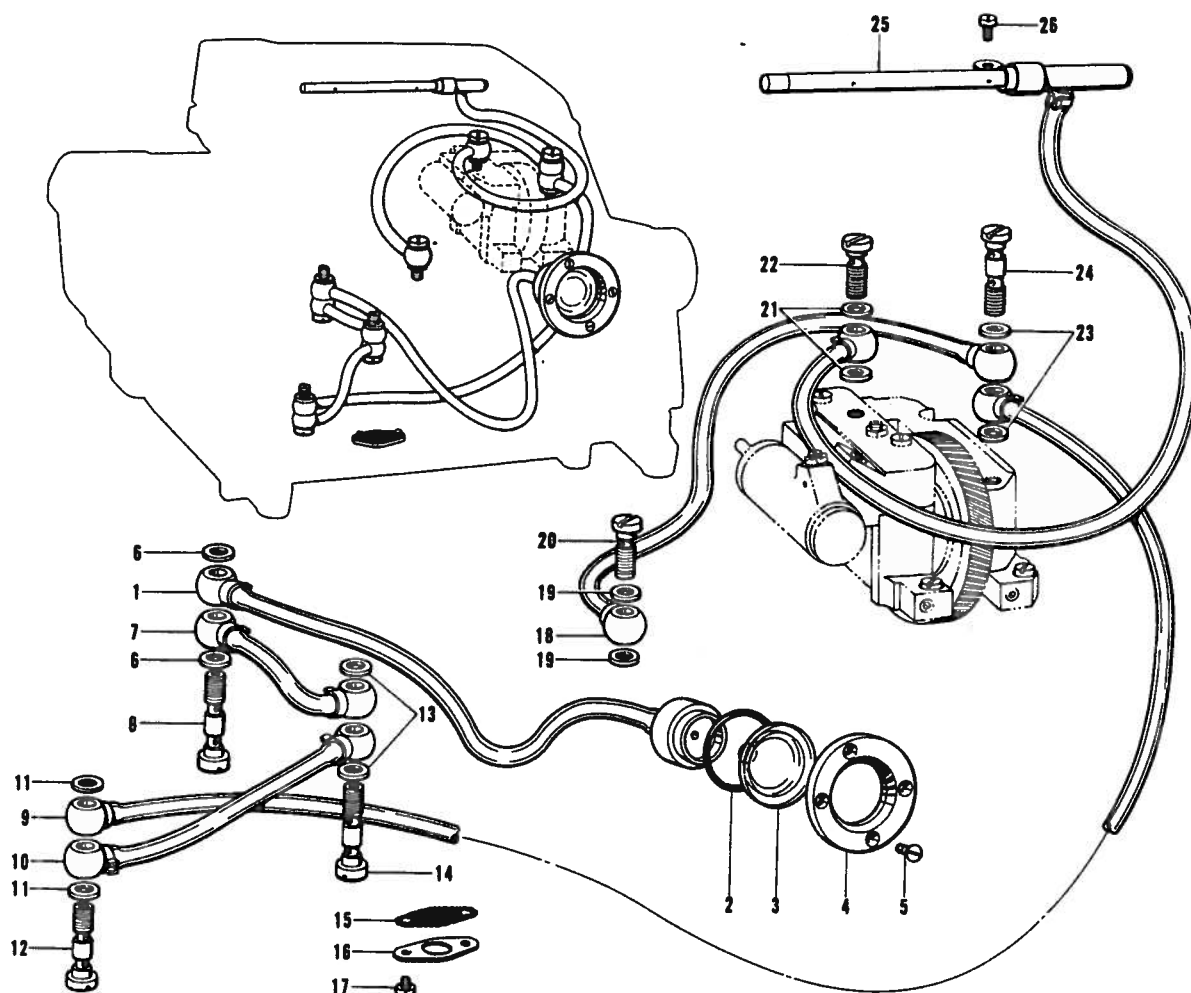
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J- 1	Upper Knife Driving	1	155185-0-01		J-11	Bolt 3.57	1	144075-0-01	
J- 2	Nut	1	148281-0-01		J-12	Lower Knife	1	155193-0-01	
J- 3	Bushing (Left)	1	155186-0-00		J-13	Lower Knife Presser Plate	1	155194-0-01	
J- 4-1	Set Collar	1			J-14	Bolt 4.37	1	117516-0-01	
J- 4-2	Screw 5.95	2	152718-0-01	J-4 Collar Assembly 155863-0-01	J-15	Lower Knife Holder Guide	1	155195-0-01	
J- 5-1	Upper Knife Driving Lever	1			J-16	Screw 3.57 x 6	2	009670-6-12	
J- 5-2	Bolt 6.35 x 16	1	149170-0-01	*J-5 Upper Knife Driving Rod Assembly 155181-0-01	J-17	Lower Knife Holder	1	155192-0-01	
J- 5-3	Pin	1			J-18	Screw 6.35	1	102627-0-01	
J- 5-4	Upper Knife Driving Rod	1			J-19	Spring	1	146584-0-01	
J- 5-5	Screw 4.37 x 14	2	148425-0-01		J-20	Oil Cap	1	154923-0-01	
J- 5-6	Screw 4.37	1	100366-0-01		J-21	Upper Knife Holder	1	155190-0-01	
J- 6	Wick 8 x 8 (44)	1	140317-0-00		J-22	Upper Knife	1	148815-0-01	
J- 7	Bushing (Right)	1	144117-0-00		J-23	Upper Knife Presser	1	148343-0-01	
J- 8	Upper Knife Holder	1	155188-0-01		J-24	Upper Knife Presser Plate	1	148344-0-01	
J- 9	Screw 4.37	1	107407-0-03		J-25	Screw 4.37	1	102424-0-03	
J-10	Upper Knife	1	144074-0-00		J-26	Screw 3.57 x 10	1	009671-0-14	

K. Threading



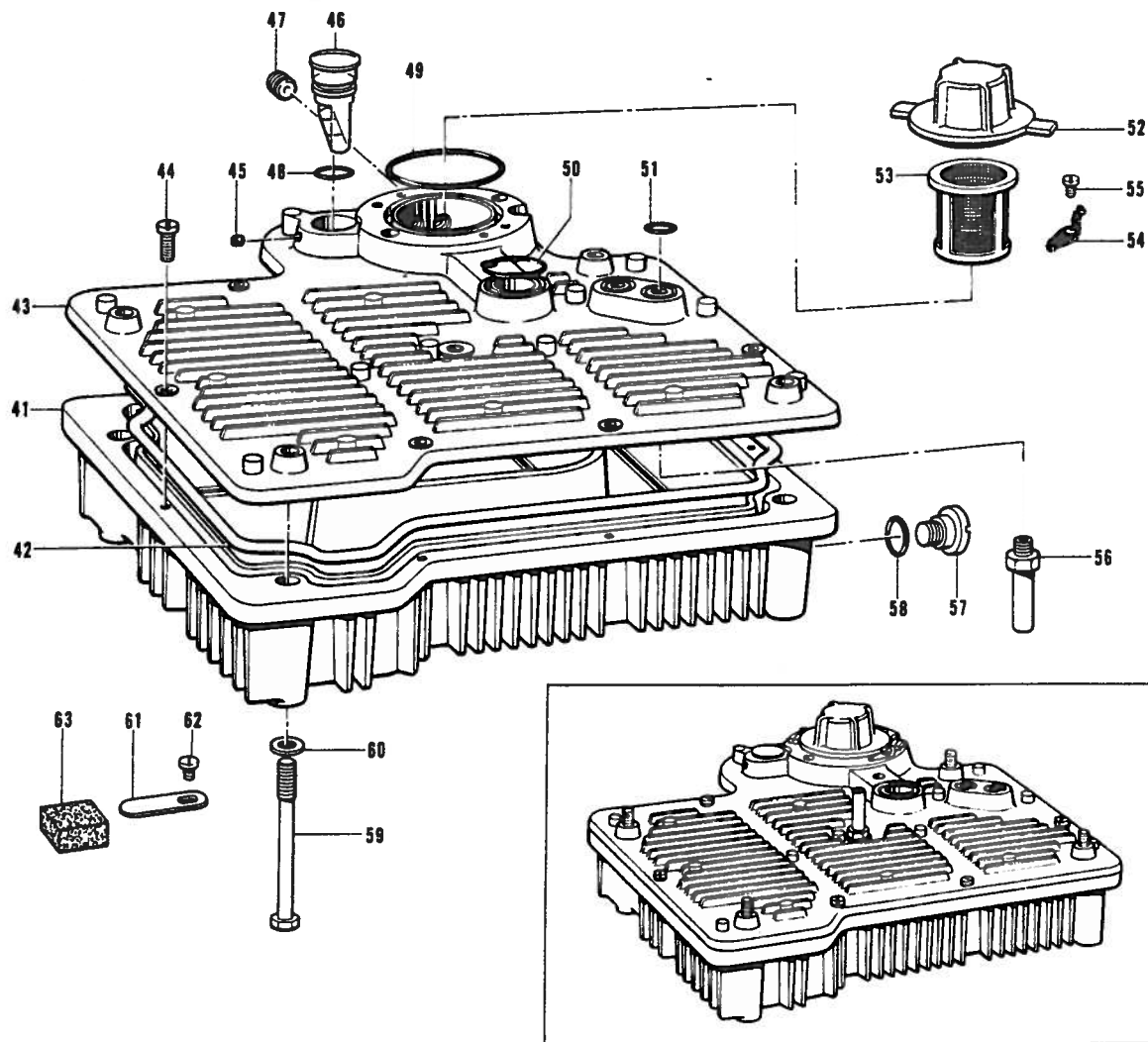
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly N .
K-1	Needle Thread Guard (A)	1	155309-0-01		K-25	Under Looper Thread Guide	1	146926-0-02	
K-2	Needle Thread Guard Spring	1	155310-0-01		K-26	Screw 3.57 x 6	1	009670-6-12	
K-3	Needle Thread Guide (C)	1	155307-0-01		K-27	Thread Guide	1	146926-0-03	
K-4	Screw 2.38	1	105288-0-01		K-28	Screw 3.57 x 6	1	009670-6-12	
K-5	Needle Thread Take-up	1	155306-0-01		K-29	Under Looper Thread Take-up	1	155311-0-01	
K-6	Screw 3.57 x 6	2	001670-6-12		K-30	Over Looper Thread Take-up	1	155312-0-01	
K-7	Needle Thread Guide (A)	1	155305-0-01		K-31	Screw 3.57 x 6	1	009670-6-12	
K-8	Screw 3.57 x 6	1	001670-6-12		K-32	Screw 3.57 x 4	1	009670-4-12	
K-9	Needle Thread Guide (B)	1	155304-0-01		K-33	Looper Thread Take-up (L)	1	146654-0-01	
K-10	Screw 3.57 x 6	2	009670-6-12		K-34	Screw 3.57 x 6	1	009670-6-12	
K-11	Thread Guide	1	155314-0-01		K-35	Over Looper Thread Guide	1	155313-0-01	
K-12	Screw 3.57 x 6	1	009670-6-12		K-36	Screw 3.57 x 6	1	009670-6-12	
K-13	Needle Thread Guide Plate	4	110813-0-01		K-37	Thread Guide	1	146930-0-01	
K-14	Looper Thread Tension Control Stud	4	110820-0-01		K-38	Screw 3.57 x 6	1	009670-6-12	
K-15	Felt	4	110832-0-01		K-39	Spring	1	155318-0-01	
K-16	Tension Disc	8	145446-0-01		K-40	Chain Stitch Base Plate Assembly	1	150808-0-01	
K-17	Tension Disc Washer	4	144103-0-01		K-41	Thread Guide (R)	1	146663-0-01	
K-18	Spring	2	144104-0-01		K-42	Screw 2.38 x 4	2	001630-4-02	
K-19	Tension Spring Washer	4	144105-0-00		K-43	Thread Handler	1	150810-0-01	
K-20-1	Thread Tension Adjusting Nut	1	149566-0-02	K-20 Thread Tension Adjusting Nut Assembly 155696-0-03	K-44	Screw 3.57 x 4	1	009670-4-12	
K-20-2	Tension Indicating Plate	1	155697-0-03		K-45	Thread Guide (L)	1	150811-0-01	
K-21-1	Thread Tension Adjusting Nut	1	149566-0-02	K-21 Thread Tension Adjusting Nut Assembly 155696-0-01	K-46	Spring Washer	1	028050-2-42	
K-21-2	Tension Indicating Plate	1	155697-0-01		K-47	Screw 4.37	1	150812-0-01	
K-22-1	Thread Tension Adjusting Nut	1	149566-0-02	K-22 Thread Tension Adjusting Nut Assembly 155696-0-02	K-48	Chain Stitch Looper Take-up	1	150807-0-01	
K-22-2	Tension Indicating Plate	1	155697-0-02		K-49	Screw 4.37	2	014680-4-22	
K-23-1	Thread Tension Adjusting Nut	1	149566-0-02	K-23 Thread Tension Adjusting Nut Assembly 155696-0-04	K-50	Upper Thread Tension Adjusting Screw	1	151012-0-01	
K-23-2	Tension Indicating Plate	1	155697-0-04		K-51	Tension Spring Washer	1	144105-0-00	
K-24	Spring	2	144110-0-01		K-52	Thread Tension Adjusting Spring	1	147149-0-01	
					K-53	Tension Disc	2	145446-0-01	
					K-54	Felt	1	110832-0-01	
					K-55	Thread Tension Control Stud	1	147148-0-01	
					K-56	Needle Thread Guide Plate	1	110813-0-01	
					K-57	Thread Guide Pipe	1	155316-0-01	
					K-58	Chain Stitch Looper Thread Guide	1	151617-0-01	
					K-59	Screw 3.57 x 6	1	009670-6-12	
					K-60	Spring	2	148851-0-01	

L. Lubrication (1)



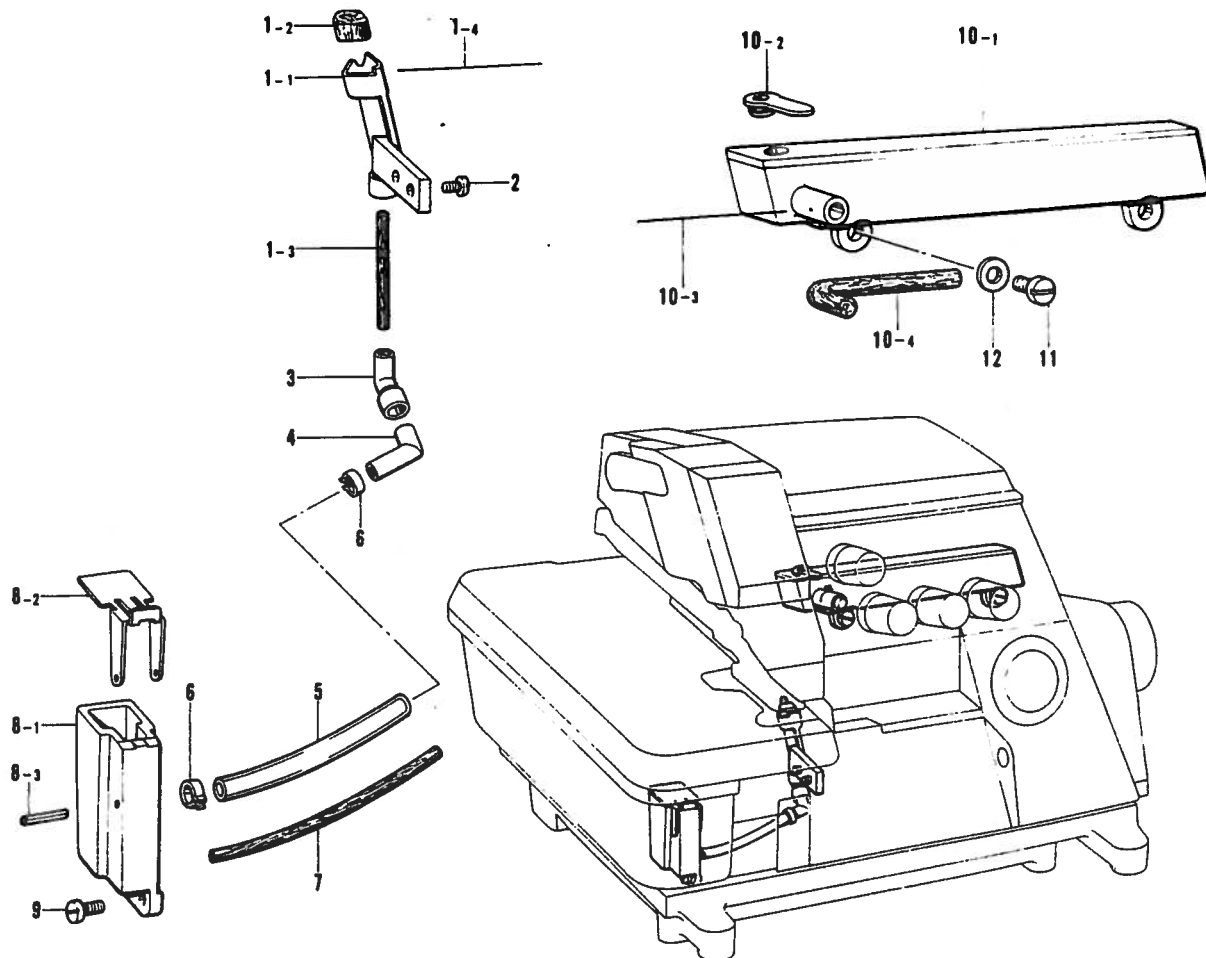
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L- 1	Pilot-Light Gauge	1	155286-0-01		L-14	Oil Feeding Pipe	1	112364-0-01	
L- 2	"O" Ring	1	081022-0-70		L-15	Oil Filter	1	155294-0-00	
L- 3	Pilot-Light Lens	1	155290-0-00		L-16	Oil Filter Flange	1	155295-0-01	
L- 4	Lens Presser Plate	1	155291-0-01		L-17	Screw 3.57 x 5	2	009670-5-12	
L- 5	Screw 3.57	4	102538-0-02		L-18	Tube Assembly	1	155292-0-01	
L- 6	Packing	2	112348-0-01		L-19	Packing	2	112348-0-01	
L- 7	Vinyl Tube	1	155284-0-01		L-20	Oil Feeding Pipe	1	112359-0-01	
L- 8	Oil Feeding Pipe	1	112364-0-01		L-21	Packing	2	112348-0-01	
L- 9	Vinyl Tube	1	156469-0-01		L-22	Oil Feeding Pipe	1	112359-0-01	
L-10	Vinyl Tube	1	155282-0-01		L-23	Packing	2	112348-0-01	
L-11	Packing	2	112348-0-01		L-24	Oil Feeding Pipe	1	112364-0-01	
L-12	Oil Feeding Pipe	1	112364-0-01		L-25	Main Oil Pipe	1	156460-0-01	
L-13	Packing	2	112348-0-01		L-26	Screw 3.57 x 6	1	009670-6-12	

L. Lubrication (2)



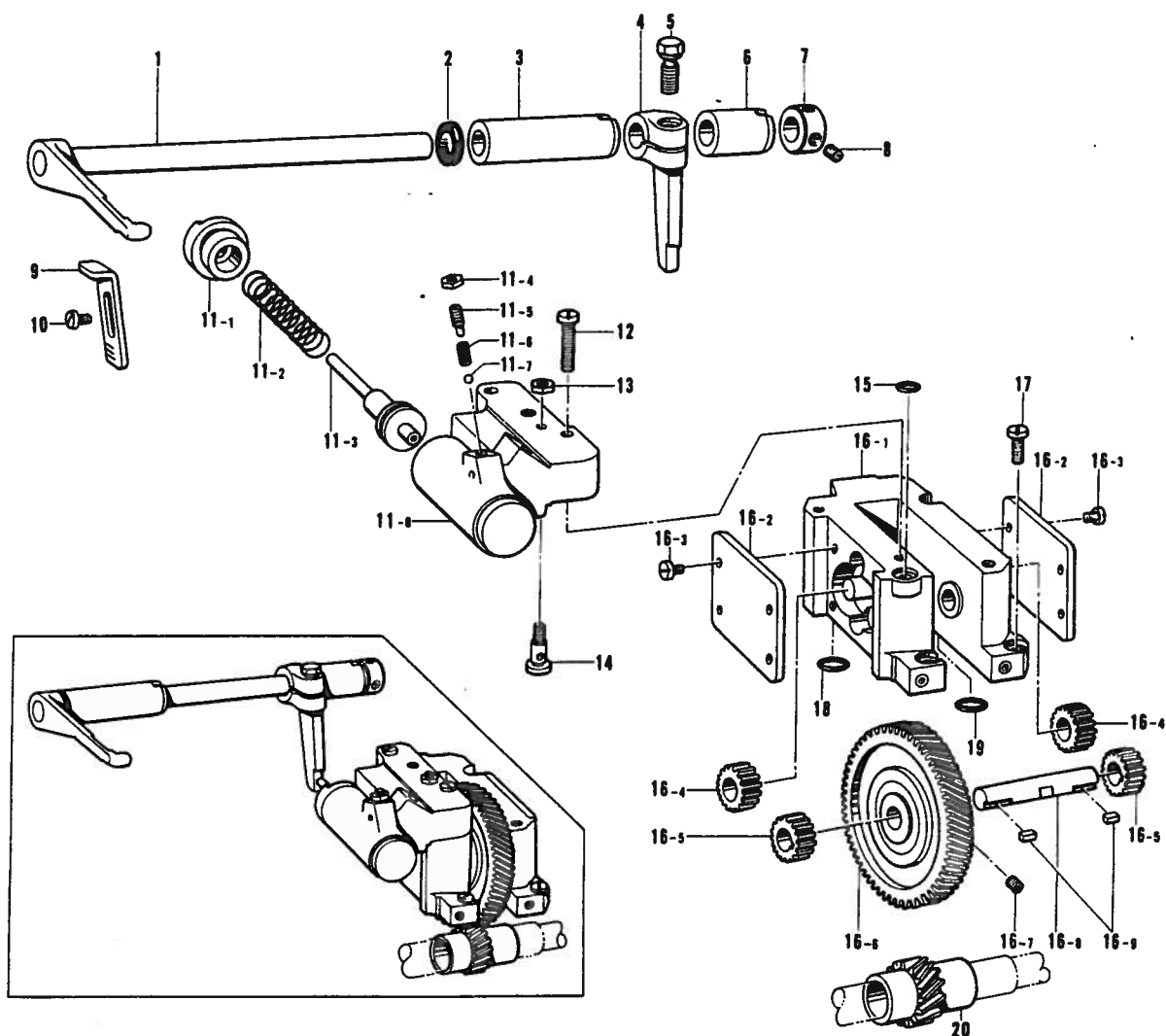
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L-41	Oil Tank	1	155296-0-00		L-53	Oil Filter	1	155299-0-00	
L-42	Packing	1	155297-0-00		L-54	Spring	2	144874-0-01	
L-43	Oil Tank Cover	1	155298-0-00		L-55	Screw 3.57 x 6	2	009670-6-12	
L-44	Screw 4.37 x 12	7	009681-2-12		L-56	Pipe	3	155302-0-01	
L-45	Screw 7.94	2	014821-0-22		L-57	Stud Screw 9.52	1	110641-0-01	
L-46	Oil Gauge	1	155301-0-01		L-58	Packing	1	109203-0-01	
L-47	Screw 3.57	1	148294-0-01		L-59	Bolt 6 x 65	4	155303-0-01	
L-48	"O" Ring	1	081016-0-70		L-60	Washer	4	118735-0-02	
L-49	"O" Ring	1	081044-0-70		L-61	Plate Spring	2	152936-0-01	
L-50	"O" Ring	1	081022-0-70		L-62	Screw 3.57 x 6	2	009670-6-12	
L-51	"O" Ring	2	081011-0-70		L-63	Magnet	2	112525-0-00	
L-52	Oil Tank Cap	1	155300-0-00						

M. Needle Cooler



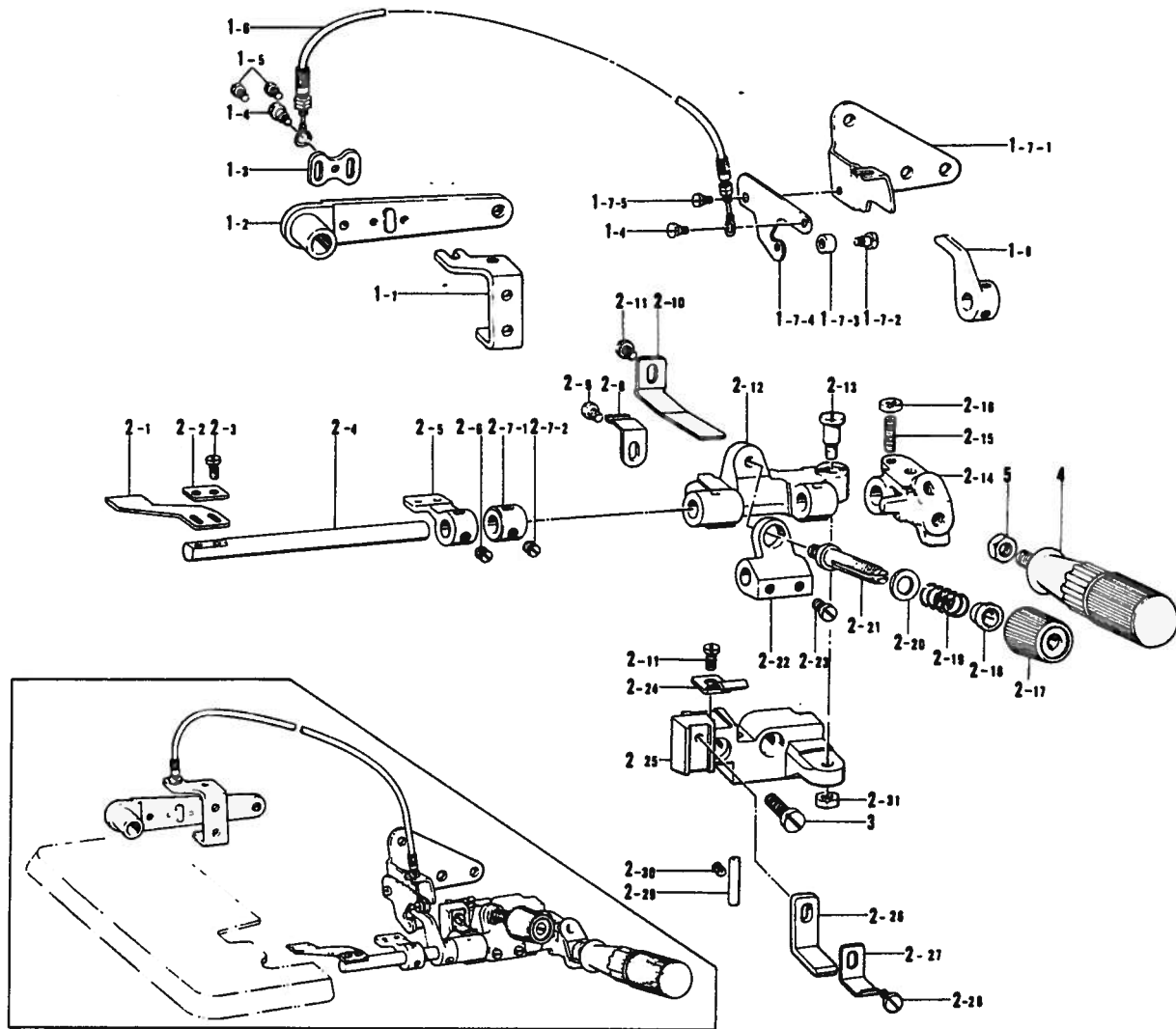
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M- 1-1	Felt Supporter	1	154936-0-00	M-1 Felt Holder Assembly 154935-0-01	M- 8-1	Needle Cooler Tank	1		M-8 Needle Cooler Assembly 154943-0-01
M- 1-2	Felt (S)	1	151475-0-00		M- 8-2	Needle Cooler Tank Cover	1	154945-0-01	
M- 1-3	Felt	1	154932-0-00		M- 8-3	Pin	1	047201-6-40	
M- 1-4	Steel Wire	1	147738-0-00		M- 9	Screw 3.57 x 10	2	009671-0-12	
M- 2	Screw 3.57	2	100257-0-10		M-10-1	Needle Thread Cooler Tank	1		M-10 Needle Thread Cooler Assembly 154924-0-01
M- 3	Pipe Joint (A)	1	154939-0-00	M-10-2	Needle Thread Cooler Tank Cover	1	154928-0-00		
M- 4	Pipe Joint (B)	1	154940-0-00	M-10-3	Steel Wire	1	147738-0-00		
M- 5	Vinyl Tube	1	154942-0-00	M-10-4	Felt	1	154929-0-00		
M- 6	Stop Ring	2	147942-0-01		M-11	Screw 4.37 x 7	2	009680-7-12	
M- 7	Felt	1	154941-0-00		M-12	Washer	2	110735-0-02	

N. Auto Presser Mechanism



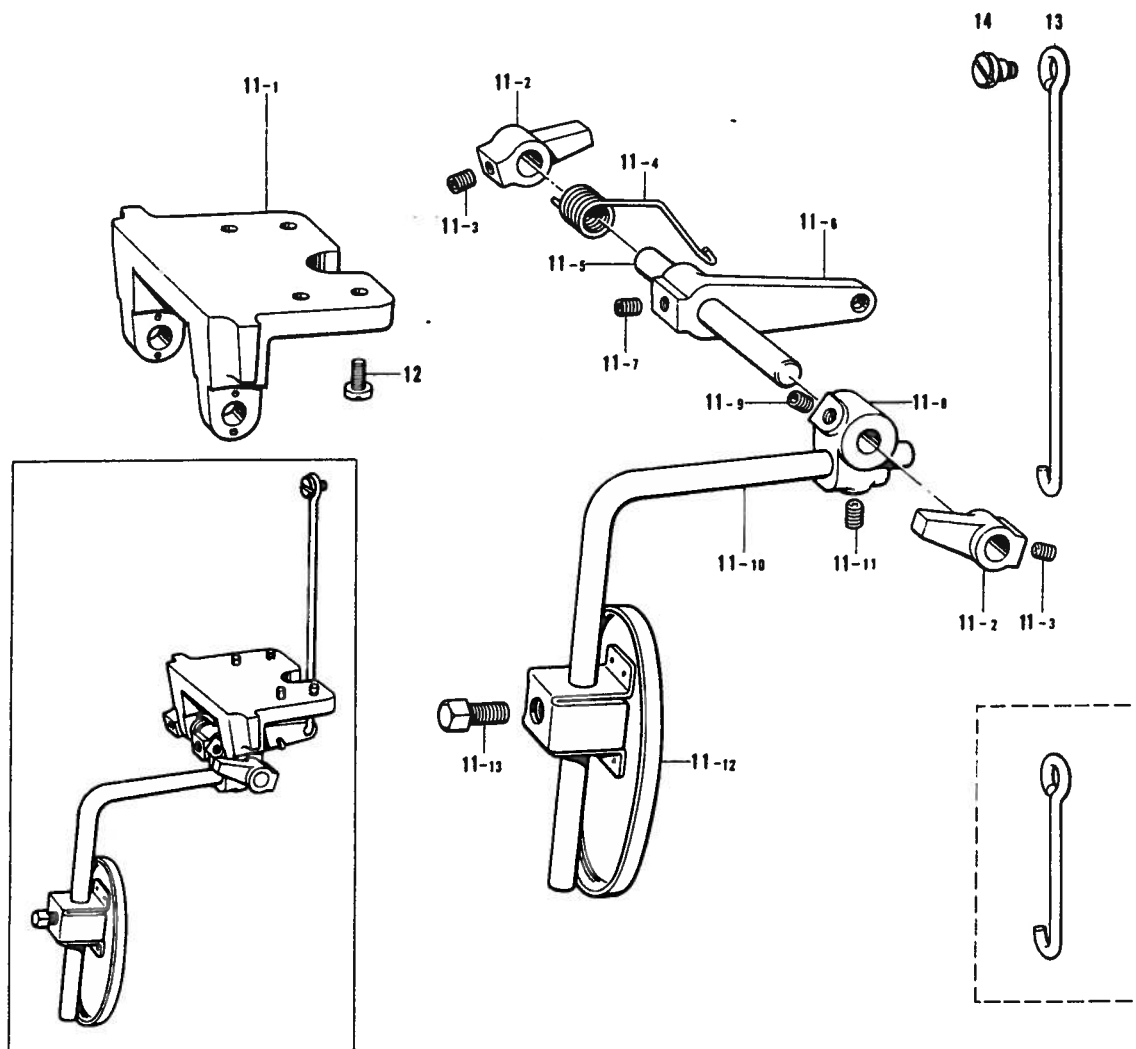
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
N- 1	Auto Presser Arm	1	155223-0-01		N-12	Screw 4.37 x 18	2	009681-8-12	
N- 2	Seal	1	155339-0-00		N-13	Nut	1	021670-2-02	
N- 3	Bushing (L)	1	155219-0-00		N-14	Oil Adjustor	1	156459-0-01	
N- 4	Auto Presser Lever	1	155222-0-01		N-15	"O" Ring	1	081006-0-70	
N- 5	Bolt 6.35 x 16	1	149170-0-01		N-16-1	Pump Case	1		N-16 Pump Assembly 156420-0-01
N- 6	Bushing (R)	1	155220-0-00		N-16-2	Pump Cover	2	156430-0-01	
N- 7	Set Collar	1	110197-0-01		N-16-3	Screw 3.57 x 6	8	009670-6-12	
N- 8	Screw 4.37	2	014680-4-22		N-16-4	Pump Gear F	2	156425-0-00	
N- 9	Auto Presser Arm Stopper	1	155224-0-01		N-16-5	Pump Gear D	2	156426-0-00	
N-10	Screw 3.57 x 6	2	001670-6-12		N-16-6	Gear L	1	156428-0-00	
N-11-1	Auto Presser Cylinder Cover B	1	156438-0-00	N-11 Auto Presser Cylinder Assembly 156436-0-01	N-16-7	Screw 4.37	2	014680-6-22	
N-11-2	Spring	1	155218-0-01		N-16-8	Gear L Shaft	1	156427-0-01	
N-11-3	Piston	1	155217-0-01		N-16-9	Key	2	156429-0-01	
N-11-4	Nut	1	021670-2-02		N-17	Screw 4.37 x 12	4	009681-2-12	
N-11-5	Adjusting Screw	1	156183-0-01		N-18	"O" Ring	2	081008-0-70	
N-11-6	Spring	1	120833-0-01		N-19	"O" Ring	2	081008-0-70	
N-11-7	Steel Ball	1	071023-8-50		N-20	Gear S	1	156432-0-01	
N-11-8	Auto Presser Cylinder Body	1							

P. Ruffler Interlocking Parts Assembly and Ruffling Attachment Assembly (1)



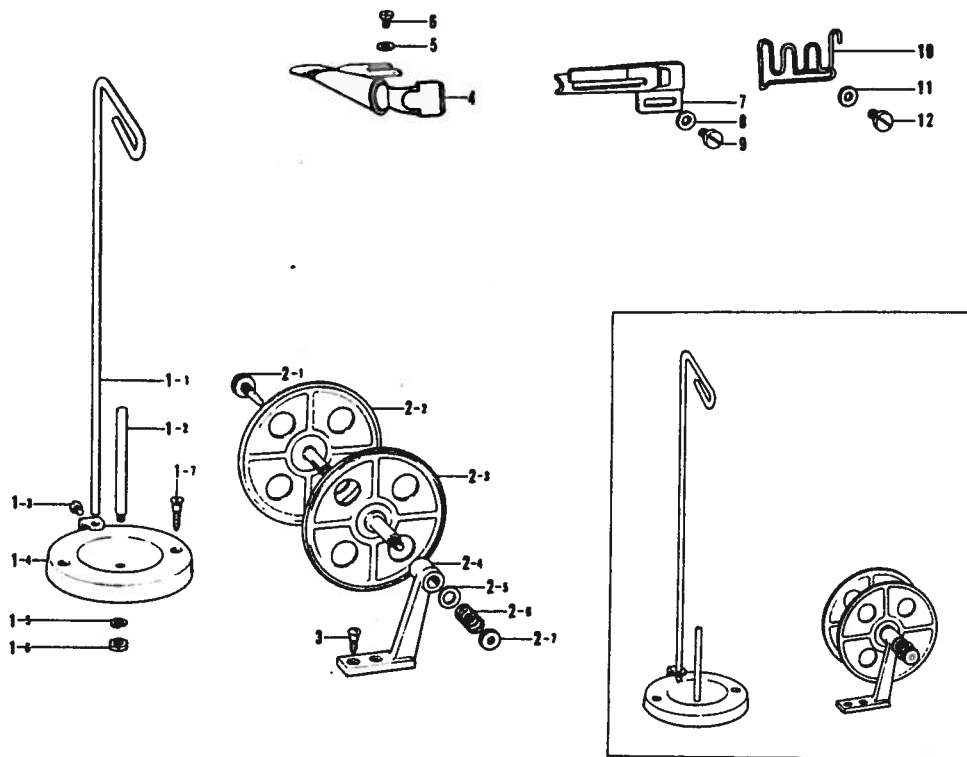
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
P- 1-1	Lever Adjuster Plate	1	147454-0-01	P-1 Ruffler Interlocking Parts Assembly 155547-0-02	P- 2-11	Screw 4.37 x 6	2	009680-6-12	P-2 Ruffling Attachment Assembly 146587-1-02
P- 1-2	Presser Foot Lifter Lever	1	148369-1-01		P- 2-12	Bracket for Ruffling Blade	1	146588-0-01	
P- 1-3	Wire Plate	1	147672-0-01		P- 2-13	Stud Screw 5.95	1	147933-0-01	
P- 1-4	Screw	2	141514-0-01		P- 2-14	Handle Fixing Plate	1	145810-0-01	
P- 1-5	Screw 3.57 x 6	2	009670-6-12		P- 2-15	Screw 4.37	1	110230-0-01	
P- 1-6	Flexible Wire Assembly	1	148391-0-01	P-1-7 Ruffling Plate Lifter Lever Assembly 155329-0-01	P- 2-16	Nut 4.37	1	105234-0-03	
P- 1-7-1	Presser Foot Lifter Lever Support	1	155330-0-01		P- 2-17	Thread Tension Adjusting Nut	1	149566-0-02	
P- 1-7-2	Stud Screw 3.18	1	112301-0-01		P- 2-18	Tension Spring Washer	1	144105-0-00	
P- 1-7-3	Roller	1	148390-0-01		P- 2-19	Spring	1	144788-0-01	
P- 1-7-4	Ruffling Plate Lifter Lever	1	148388-0-01		P- 2-20	Washer	1	025770-2-32	
P- 1-7-5	Screw	1	141514-0-01	P-2 Ruffling Attachment Assembly 146587-1-02	P- 2-21	Looper Thread Tension Control Stud	1	110820-0-01	
P- 1-8	Ruffling Plate Lifter	1	148387-0-01		P- 2-22	Spring Base	1	146590-0-01	
P- 2-1	Ruffling Blade	1	144783-0-01		P- 2-23	Screw 5.95	2	105163-0-01	
P- 2-2	Washer	1	144784-0-01		P- 2-24	Spring Plate	1	145808-0-01	
P- 2-3	Screw 3.18 x 7	2	009660-7-12		P- 2-25	Ruffling Base	1		
P- 2-4	Ruffling Blade Base Shaft	1	145803-0-01	P-2-7 Set Collar Assembly 181995-0-02	P- 2-26	Ruffling Blade Guide Plate	1	154795-0-01	
P- 2-5	Wrapper Base	1	146589-0-01		P- 2-27	Ruffling Blade Guide	1	145807-0-01	
P- 2-6	Screw 6.35	2	101706-0-01		P- 2-28	Screw 4.37 x 8	1	009680-8-12	
P- 2-7-1	Set Collar	1			P- 2-29	Thread Guide Pipe	1	146592-0-01	
P- 2-7-2	Screw 6.35	2	101706-0-01		P- 2-30	Screw 3.57	1	013679-4-12	
P- 2-8	Spring	1	144764-0-01		P- 2-31	Nut	1	150553-0-02	
P- 2-9	Screw 3.57 x 5	1	001670-5-12		P- 3	Screw 6.35 x 18	2	009781-8-12	
P- 2-10	Spring Plate	1	145811-0-01		P- 4	Handle	1	145809-0-01	
					P- 5	Nut 6.35	1	150556-0-02	

P. Differential Adjuster Assembly (2)



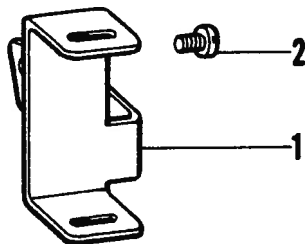
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
P-11- 1	Knee Lifter Shaft Bracket	1	155197-0-01	P-11 Knee Lifter Shaft Bracket Assembly 155196-0-01	P-11- 9	Screw 6.35	1	014780-6-22	P-11
P-11- 2	Collar	2	155203-0-01		P-11-10	Knee Lifter Bar (S)	1	148797-0-01	Knee Lifter
P-11- 3	Screw 6.35	2	014780-6-22		P-11-11	Screw 6.35	1	014780-6-22	Shaft Bracket
P-11- 4	Spring	1	155202-0-01		P-11-12	Knee Lifter Plate (L)	1	148798-0-01	Assembly
P-11- 5	Knee Lifter Shaft	1	155198-0-01		P-11-13	Bolt 7.94	1	100463-0-01	155196-0-01
P-11- 6	Knee Lifter Lever	1	155201-0-01		P-12	Screw 4.37 x 10	4	009681-0-12	
P-11- 7	Screw 6.35	1	014780-6-22		P-13	Connecting Bar	1	155205-0-01	
P-11- 8	Knee Lifter Bracket	1	155199-0-01		P-14	Stud Screw 4.76	1	146594-0-01	

R. Wrapper and Piping Parts



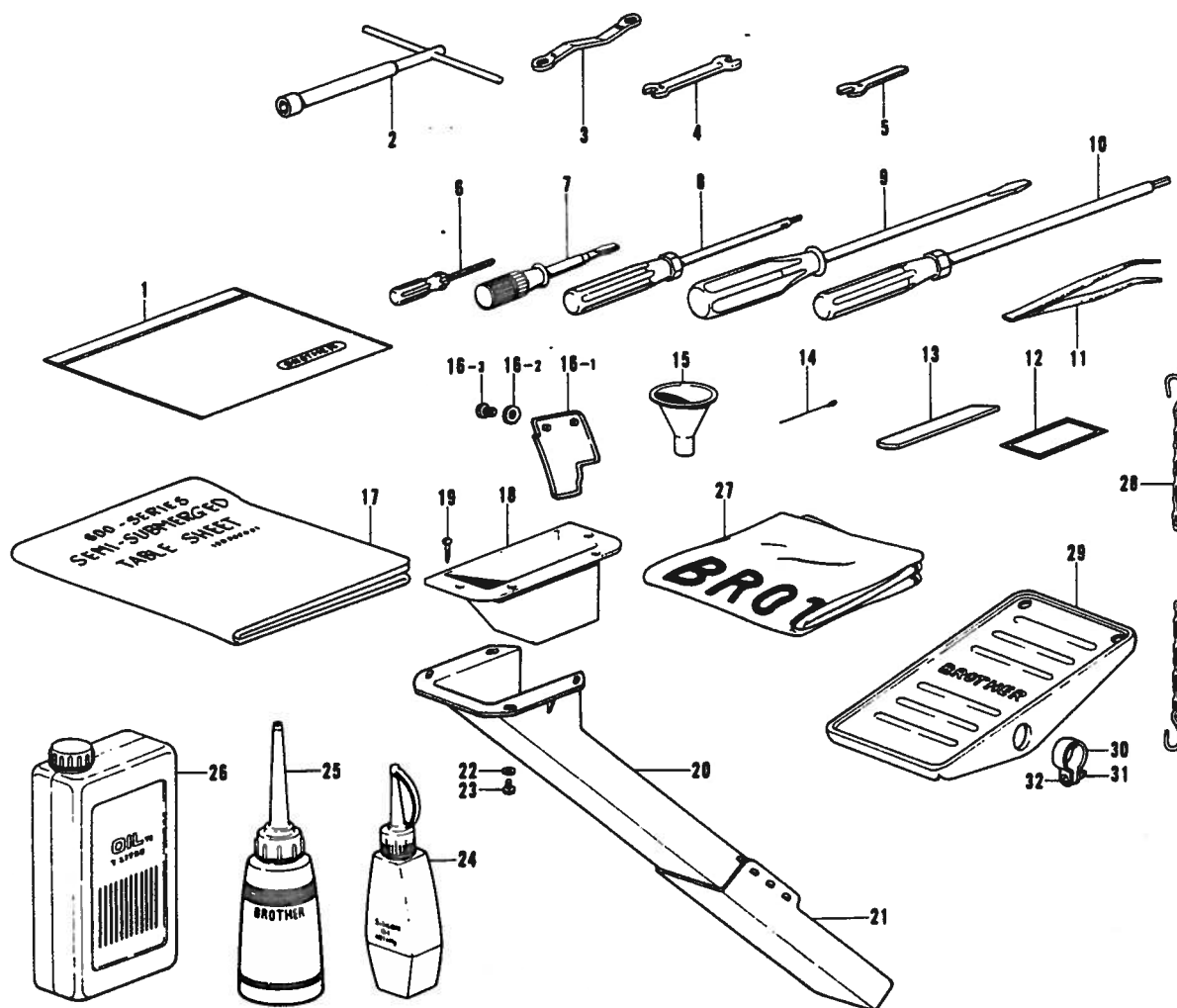
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
R- 1-1	Thread Guide Stud	1		R-1 Cotton Stand Assembly 181031-0-01	R- 2-6	Spring	1	108495-0-01	R-2 Tape Winder Assembly 143767-0-02
R- 1-2	Spool Stud	1	100444-0-02		R- 2-7	Tension Control Nut	1	100136-0-01	
R- 1-3	Screw 3.18	1	100080-0-02		R- 3	Screw 4.5 x 20	2	101118-0-01	
R- 1-4	Spool Disc	1			R- 4	Wrapper Assembly	1	147440-0-00	
R- 1-5	Spring Washer	1	028050-2-42		R- 5	Washer	2	110735-0-02	
R- 1-6	Nut	1	110161-0-03		R- 6	Screw 4.37 x 6	2	009680-6-12	
R- 1-7	Screw 4.5 x 32	2	100447-0-01		R- 7	Wrapper Assembly	1	147373-0-00	
R- 2-1	Screw	1	143980-0-01	R-2 Tape Winder Assembly 143767-0-02	R- 8	Washer	2	025350-3-32	
R- 2-2	Tape Winder Wheel (L)	1			R- 9	Screw 3.57 x 5	2	009670-5-12	
R- 2-3	Tape Winder Wheel (R)	1			R-10	Tape Guide	1	147377-0-01	
R- 2-4	Tape Winder Bracket	1			R-11	Washer	2	025350-3-32	
R- 2-5	Washer	1	108494-0-01		R-12	Screw 3.57 x 5	2	009670-5-12	

Q. Taping



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Q- 1	Tape Guide	1	155327-0-01	
Q- 2	Screw 3.18 x 4.5	2	009669-4-12	

Z. Accessories (1)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z- 1	Vinyl Bag		122991-0-01		Z-17	Table Sheet		155322-0-01	
Z- 2	Wrench		140342-0-01		Z-18	Duster Drop		148430-0-01	
Z- 3	Wrench 8 x 9		105343-0-01		Z-19	Screw 3.1 x 13		031311-3-02	
Z- 4	Spanner 6 x 7		107779-0-01		Z-20	Duster Shoot L		148431-0-01	
Z- 5	Spanner 4		155320-0-01		Z-21	Duster Shoot S		148432-0-01	
Z- 6	Screw Driver 1.6		144124-0-01		Z-22	Washer		025680-2-32	
Z- 7	Screw Driver 3.4 x 70		118837-0-01		Z-23	Screw 4.37 x 10		009681-0-12	
Z- 8	Driver Wrench 2		146700-0-01		Z-24	Silicone Oil		142343-0-01	
Z- 9	Screw Driver		101572-1-01		Z-25	Oiler		114483-0-01	
Z-10	Screw Driver 3		149173-0-01		Z-26	Oil Tank		145277-1-04	
Z-11	Tweezers		117466-0-00		Z-27	Head Cover		144225-0-01	
Z-12	Needle DC x 27 Assembly		151474-4		Z-28	Chain Assembly		142262-0-01	
Z-13	Lower		155193-0-01		Z-29	Treadle Pedal		147893-0-01	
Z-14	Threader		142125-0-00		Z-30	Pedal Stopper		116016-0-01	
Z-15	Funnel		140759-0-00		Z-31	Nut 4		021400-1-06	
Z-16-1	Eye Guard			Z-16 Eye Guard Assembly 156022-0-01	Z-32	Screw 4 x 14		001401-4-06	
Z-16-2	Washer		025030-1-32						
Z-16-3	Screw 3.18 x 5		009660-5-12						

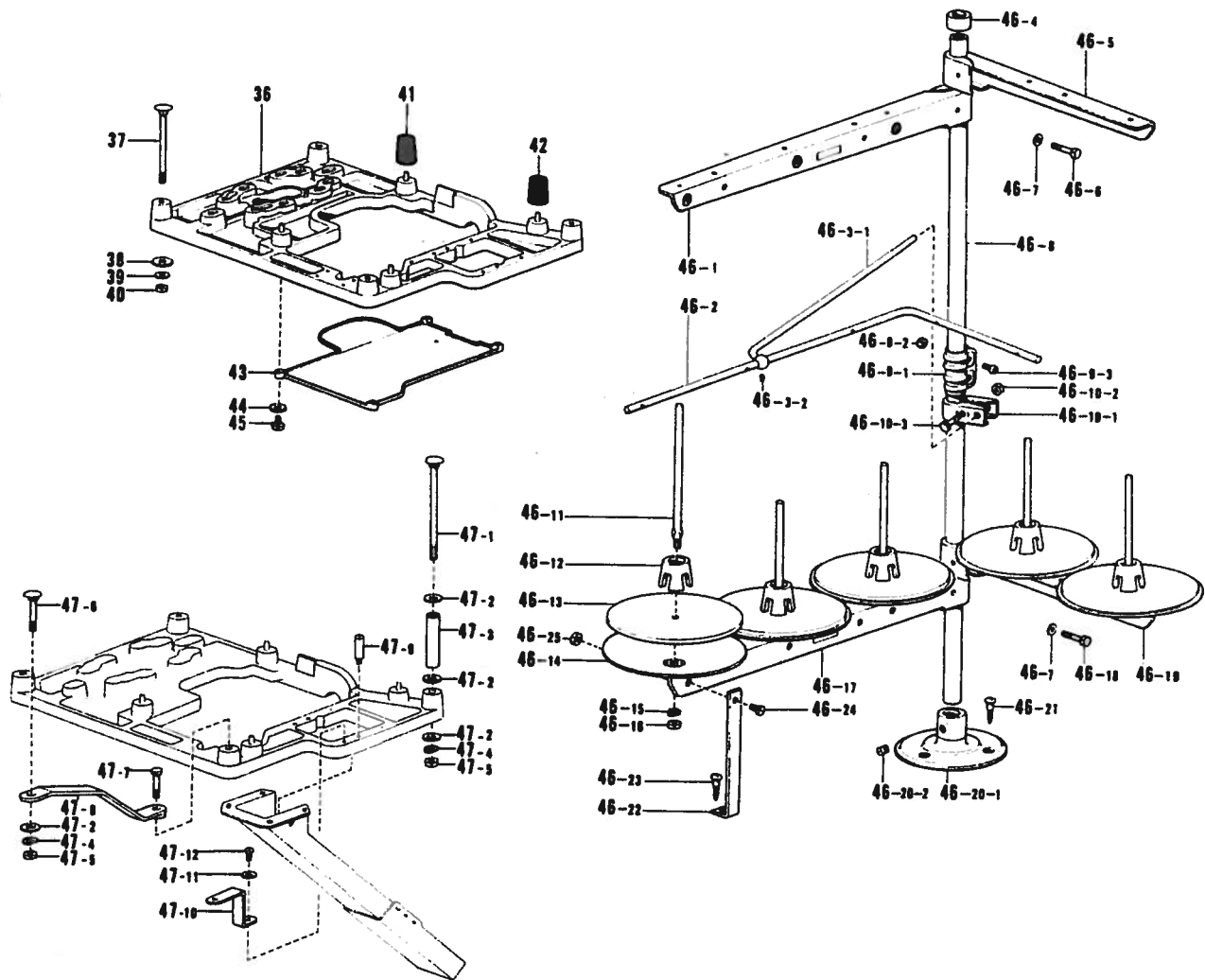
*The details of included accessories are subject to change.

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

*Änderungen in der Aufstellung der mitgelieferten Zubehörte sind vorbehalten.

*Los detalles de los accesorios incluidos pueden variar.

Z. Machine Base Plate and Cotton Stand Assembly (2)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z-36	Machine Base Plate		155321-0-00		Z-46-13	Spool Mat		150182-0-00	
Z-37	Bolt 8 x 85		210973-0-01		Z-46-14	Spool Stand Base		150180-0-00	
Z-38	Washer 8		025080-2-36		Z-46-15	Spring Washer 2-5		028050-2-43	
Z-39	Spring Washer 2-8		028080-2-42		Z-46-16	Nut 5		021500-1-03	
Z-40	Nut		021080-1-06		Z-46-17	Spool Holder Assembly		150175-0-01	
Z-41	Cushion		147919-0-01		Z-46-18	Bolt 5 x 28		017502-8-03	
Z-42	Cushion		147919-0-02		Z-46-19	Spool Holder Assembly		150177-0-01	
Z-43	Oil Tank Cover		155323-0-00		Z-46-20-1	Cotton Stand Base		150189-0-01	
Z-44	Washer		105161-0-03		Z-46-20-2	Screw 6 x 10		150181-0-01	
Z-45	Screw 3.57 x 10		009671-0-12		Z-46-21	Screw 4.5 x 22		031452-2-03	
Z-46-1	Thread Hanger Assembly		147056-0-01		Z-46-22	Spool Holder Supporter A		150188-0-01	
Z-46-2	Thread Guide 5		142999-0-01		Z-46-23	Screw 4.5 x 22		031452-2-03	
Z-46-3-1	Thread Guide Stopper Bar		142996-0-01	Z-46-3 Thread Guide Stopper Bar 142971-0-01	Z-46-24	Screw 5 x 10		007501-0-03	
Z-46-3-2	Screw 4.76		013719-4-12		Z-46-25	Nut 5		021500-1-03	
Z-46-4	Cap		150174-0-00		Z-47-1	Bolt		153318-0-01	
Z-46-5	Thread Hanger Assembly		147055-0-01		Z-47-2	Washer		025080-2-36	
Z-46-6	Bolt 5 x 28		017502-8-03		Z-47-3	Collar		153317-0-01	
Z-46-7	Washer		025050-2-33		Z-47-4	Washer		028080-2-42	
Z-46-8	Pipe		150172-0-01		Z-47-5	Nut		021080-1-06	
Z-46-9-1	Joint				Z-47-6	Bolt 8 x 55		211964-0-01	
Z-46-9-2	Nut 5		021500-1-03		Z-47-7	Bolt 8 x 55		017085-5-02	
Z-46-9-3	Screw 5 x 14		150202-0-01		Z-47-8	Machine Base Plate Supporter		153319-0-01	
Z-46-10-1	Thread Guide Holder		150185-0-01		Z-47-9	Stud		155326-0-01	
Z-46-10-2	Nut 5		021500-1-03		Z-47-10	Duster Shoot Supporter		155325-0-01	
Z-46-10-3	Bolt 5 x 28		017502-8-03		Z-47-11	Washer		025680-2-32	
Z-46-11	Spool Shaft (B)		150179-0-01		Z-47-12	Screw		009681-0-12	
Z-46-12	Spool Cushion		147060-0-01						

*The details of included accessories are subject to change.

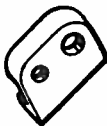
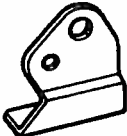
*Änderungen in der Aufstellung der mitgelieferten Zubehöre sind vorbehalten.

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

*Los detalles de los accesorios incluidos pueden variar.

DIFFERENT PARTS LIST

Sub Class	Specifications	Label	Stitch Length Control Plate	Oil Cap	Supporter for Front Cover Assembly	Looper Threading Label	Threading Diagram
		061-					
061-2 -3 -4 -5	Thin	A-26	146976-0-81 146976-0-01 146976-0-02 146976-0-03			A-95 155340-0-01	A-96 154850-0-01
062-2 -3	Thin	A-26	146976-0-82 146976-0-04				A-100 154851-0-01
063-3 -4 -5	Thin, medium	A-26	146976-0-07 146976-0-08 146976-0-09	A-32 154808-0-01	A-90 143196-0-01	A-95 155340-0-01	A-96 154850-0-01
064-3 -4 -5	Thin, medium	A-26	146976-0-10 146976-0-11 146976-0-12				A-100 154851-0-01
065-4 -5 -6 -7	Medium-heavy	A-26	146976-0-95 146976-0-13 146976-0-14 146976-0-15			A-95 155340-0-01	A-96 154850-0-01
066-5 -6 -7	Medium-heavy	A-26	146976-0-16 146976-0-17 146976-0-18				A-100 154851-0-01
067-4 -5	Ruffling	A-26	146976-0-19 146976-0-97				
069-5	Ruffling	A-26	146976-0-21				
071-5 -6	Ruffling	A-26	146976-0-88 146976-0-23				
073-4	Ruffling (W/piping)	A-26	146976-0-25	A-34 154810-0-01		A-91 154825-0-01	A-95 155340-0-01
075-4 -5	Ruffling (W/piping)	A-26	146976-0-99 146976-0-27				
077-6	Ruffling (W/piping)	A-26	146976-0-29				
078-6	Ruffling (W/piping)	A-26	146976-0-30				A-100 154851-0-01
079-3 -4	Taping	A-26	146976-0-31 146976-0-32				
081-3 -4 -5	Taping	A-26	146976-0-37 146976-0-38 146976-0-39			A-95 155340-0-01	A-96 154850-0-01
083-5	Taping	A-26	146976-0-43				
084-5 -6	Taping	A-26	146976-0-46 146976-0-47				A-100 154851-0-01
085-5 -6 -7	Taping	A-26	146976-0-80 146976-0-51			A-95 155340-0-01	A-96 154850-0-01
086-5 -6 -7	Taping	A-26	146976-0-78 146976-0-79	A-32 154808-0-01	A-90 143196-0-01		A-100 154851-0-01
089-4 -5	Binding	A-26	146976-0-64 146976-0-69		A-101 154827-0-01	A-95 155340-0-01	A-96 154850-0-01
090-5	Binding	A-26	146976-0-98				A-100 154851-0-01
091-5 -6 -7	Binding	A-26	146976-0-89 146976-0-90 146976-0-91 146976-0-92		A-91 154825-0-01	A-95 155340-0-01	A-96 154850-0-01
094-3 -5 -7	Thin, medium	A-26	151488-0-01 151488-0-02 151488-0-03			A-95 155340-0-01	A-96 154850-0-01

Sub Class	Upper Knife Presser 	Upper Knife Presser Plate 	Spring 	Ruffler Interlocking Parts Assembly 	Ruffling Attachment Assembly 	Handle and Nut 	Knee Lifter Shaft Bracket Assembly 					
061-2												
-3												
-4												
-5												
062-2												
-3												
063-3												
-4												
-5												
064-3												
-4												
-5												
065-4												
-5												
-6												
-7												
066-5												
-6												
-7												
067-4												
-5												
069-5												
071-5												
-6												
073-4			K-18	144104-0-01	P- 1	155547-0-02	P- 2 P- 3	146587-1-02 009781-8-12	P- 4 P- 5	145809-0-01 150556-0-02	P-11 P-12	155196-0-01 009681-0-12
075-4												
-5												
077-6												
078-6												
079-3												
-4												
081-3												
-4												
-5												
083-5												
084-5												
-6												
087-5												
088-5												
089-4			K-60	148851-0-01								
-5												
090-5			K-18	144104-0-01								
092-5	J-23	148343-0-01	J-24	148344-0-01	K-60	148851-0-01						
094-3												
-5												
-7			K-18	144104-0-01								

Sub Class	Cotton Stand and Stud Screw	Cotton Stand	Tape Winder Assembly	Wrapper Assembly	Tape Guide	Tape Guide	Needle DC x 27 Assembly
061-2 -3 -4 -5							Z-12 151474-4-11
062-2 -3							
063-3 -4 -5							
064-3 -4 -5							Z-12 151474-4-14
065-4 -5 -6 -7							Z-12 151474-4-16
066-5 -6 -7							
067-4 -5							
069-5							Z-12 151474-4-14
071-5 -6							
073-4 P-13 155205-0-01 P-14 146594-0-01							
075-4 -5		R- 1 181031-0-01	R- 2 143767-0-02 R- 3 101118-0-01	R- 4 147440-0-00 R- 5 110735-0-02 R- 6 009680-6-12			
077-6							
078-6							
079-3 -4							Z-12 151474-4-11
081-3 -4 -5							Z-12 151474-4-14
083-5						Q- 1 146883-0-01 Q- 2 009669-4-12	Z-12 151474-4-16
084-5 -6							
							Z-12 151474-4-21
089-4 -5			R- 2 143767-0-02 R- 3 101118-0-01	R- 7 147373-0-00 R- 8 025350-3-32 R- 9 009670-5-12	R-10 147377-0-01 R-11 025350-3-32 R-12 009670-5-12		Z-12 151474-4-14
090-5							Z-12 151474-4-21
							Z-12 151474-4-21
094-3 -5 -7							Z-12 151474-4-11

INDEX

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
001401-4-06	Z-32		009680-6-12	A-98		025050-2-33	Z-46- 7		105288-0-01	H-49-12	
				P- 2-11		025080-2-36	Z-38			H-50-12	
001630-4-02	K-42			R- 6			Z-47- 2			H-51-10	
001670-5-12	A- 4		009680-7-12	A-43		025350-3-32	A- 9			H-52-10	
	A- 7			A-46			R- 7			H-53-10	
	P- 2- 9			A-85			R-11			H-54-10	
001670-6-12	A-10			B-43		025680-2-32	Z-22			H-55-10	
	K- 6			G-49			Z-47-12			H-56-10	
	K- 8			H-34		025770-2-32	P- 2-20			K- 4	
	N-10			M-11					105343-0-01	Z- 3	
001680-5-12	B-37		009680-8-12	D-10		028050-2-42	K-46			G-66	
	B-40			P- 2-28			R- 1- 5		106568-0-03	H-16	
007501-0-03	Z-46-24		009681-0-12	A-29		028050-2-43	Z-46-15		107231-0-02	A-57	
007670-5-13	A- 5			A-31		028080-2-42	Z-39			G-68	
009630-8-12	G-71			C-20			Z-47- 4		107407-0-03	G-69	
009639-3-12	H-38- 7			P-12		031311-3-02	Z-19			J- 9	
	H-39- 7			Z-23		031452-2-03	Z-46-21			Z- 4	
	H-40- 7			Z-47-11			Z-46-23		107779-0-01	R- 2- 5	
	H-48- 6		009681-2-12	A-22		047140-8-42	A-97- 7		108494-0-01	R- 2- 6	
009660-5-12	Z-16- 3			L-44			A-99- 7		108495-0-01	A-51	
009660-6-12	D-12		009681-6-12	N-12		047201-6-40	M- 8- 3		108960-0-02	A-48	
	H-57- 9		009682-2-12	L-35		048020-3-42	H- 3		109203-0-01	G-29	
009660-7-12	H-51-12			N-15		048025-3-42	H-45-10			L-58	
	H-52-12		009711-2-12	F-15			H-46-10			R- 1- 6	
	H-53-12		009781-8-12	P- 3			H-47-10		110161-0-03	H-32	
	H-54-12		013679-4-12	P- 2-30			H-49-10		110161-0-06	B- 9	
	H-55-12		013719-4-12	C- 6			H-50-10		110197-0-01	N- 7	
	H-56-12			Z-46- 3- 2		048040-3-42	G-58			P- 2-15	
009669-4-12	Q- 2		013750-5-12	D- 6		071023-8-50	N-11- 5		110230-0-01	L-57	
009670-4-12	A-97- 8			E- 5		081010-0-70	N-13		110641-0-01	A-49	
	A-99- 8		013760-6-12	A-64		081011-0-70	A-87		110641-0-02	A-42	
	K-32		014680-4-22	B-10			L-51		110735-0-02	M-12	
	K-44			E-12		081016-0-70	L-48			R- 5	
009670-5-12	L-17			F- 7		081022-0-70	L- 2			H-27	
	R- 9			F-11			L-50		110793-0-01	K-13	
	R-12			F-31		081044-0-70	L-49		110813-0-01	K-56	
009670-6-12	A-13			G-45- 3		100032-0-03	A- 2			K-14	
	A-73			G-46			B-41		110820-0-01	P- 2-21	
	A-82			K-49		100080-0-02	R- 1- 3			K-15	
	B-22			N- 8		100136-0-01	R- 2- 7		110832-0-01	K-54	
	B-25		014680-6-22	F- 9		100257-0-10	M- 2			B-38	
	B-28		014770-6-22	G-45- 1- 4	G- 5	100260-0-01	N-11- 8- 2		111486-0-01	P- 1- 7- 2	
	G-62		014780-6-22	B- 8		100294-0-02	G-34		112301-0-01	L- 6	
	J-16			G-54		100366-0-01	B-15- 3		112348-0-01	L-11	
	K-10			P-11- 3			J- 5- 6			L-13	
	K-12			P-11- 7		100444-0-02	R- 1- 2			L-19	
	K-26			P-11- 9		100447-0-01	R- 1- 7			L-25	
	K-28			P-11-11		100463-0-01	P-11-13			L-20	
	K-31		014821-0-22	L-45		100645-0-03	G-67			L-23	
	K-34		017085-5-02	Z-47- 7		101118-0-01	R- 3			L-28	
	K-36		017502-8-03	Z-46- 6		101572-1-01	Z- 9		112351-0-01	L-12	
	K-38			Z-46-10- 3		101706-0-01	A-54- 2		112359-0-01	L-18	
	K-59			Z-46-18			G-27- 2			L-26	
	L-30		017761-4-12	F-20			G-52- 2			L-21	
	L-55		017771-4-12	C-24			H-24- 2			L-24	
	L-62		017771-6-12	A-75			L-34- 2- 2			L-27	
	P- 1- 5		017781-4-12	G-38			P- 2- 6		112364-0-01	L- 8	
009670-7-12	A-19		017782-0-12	B-35		102424-0-03	J-25			L-14	
	N-11- 2		021080-1-06	Z-40		102538-0-02	C- 2		112525-0-00	L-63	
009670-8-12	A-78			Z-47- 5			L- 5		112750-0-00	A-66	
	C- 5		021400-1-06	Z-31		102627-0-01	J-18		113431-0-02	F- 2	
	E-14		021500-1-03	Z-46- 9- 2		104450-0-01	A-11			G-14	
	G- 3			Z-46-10- 2		105161-0-03	Z-44			G-56	
	L-34- 5			Z-46-16		105163-0-01	P- 2-23		114483-0-01	Z-25	
009671-0-12	M- 9			Z-46-25		105234-0-03	A-59		116016-0-01	Z-30	
	N-14- 4		021670-2-02	B-32			P- 2-16		117160-0-01	A-92	
	Z-45			N-11- 7		105288-0-01	A-33		117466-0-00	Z-11	
009671-0-14	J-26		025030-1-32	Z-16- 2			H-45-12		117516-0-01	G-70	
009671-4-12	B-33		025031-2-32	H-57- 8			H-46-12			J-14	
							H-47-12		118735-0-02	A-74	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
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	L-60		142243-0-01	H-38- 9		145803-0-01	P- 2- 4		146870-0-01	H-45- 5	
118770-0-01	G-55			H-39- 9		145807-0-01	P- 2-27			H-46- 5	
118837-0-01	Z- 7			H-40- 9		145808-0-01	P- 2-24			H-47- 5	
122771-0-02	H-45- 6			H-48- 9		145809-0-01	P- 4			H-49- 5	
	H-46- 6		142244-0-01	H-38- 5		145810-0-01	P- 2-14			H-50- 5	
	H-47- 6			H-39- 5		145811-0-01	P- 2-10		146880-0-01	H-51- 5	
	H-49- 6			H-48- 5			A-61		146924-0-00	A-91- 2	
	H-50- 6		142245-0-01	H-38- 6		146427-0-01	A-16			A-101- 2	
122991-0-01	Z- 1			H-39- 6			B- 6		146926-0-02	K-25	
123185-0-01	A-94			H-40- 8			B-50- 2		146926-0-03	K-27	
124918-0-01	A-68			H-48- 7			B-51- 2		146930-0-01	K-37	
140063-0-01	G-31		142246-0-01	H-38- 3			B-52- 2		146976-0-01	A-26	
140066-0-01	A-62			H-48- 3			B-53- 2		146976-0-02	A-26	
140077-0-01	A-80		142247-0-01	H-38- 4			F-21		146976-0-03	A-26	
				H-39- 4			H- 9		146976-0-04	A-26	
140210-0-01	G-20			H-40- 4		146442-0-01	A-97- 3		146976-0-07	A-26	
140217-0-01	G-24			H-48- 4			A-99- 3		146976-0-08	A-26	
140262-0-00	H-30		142262-0-01	Z-28		146450-0-01	A- 3		146976-0-09	A-26	
140270-0-01	H-46-14		142343-0-01	Z-24		146452-0-01	B-31		146976-0-10	A-26	
	H-50-14		142971-0-01	Z-46- 3		146453-0-01	B-30		146976-0-11	A-26	
	H-51-14		142996-0-01	Z-46- 3- 1		146454-0-01	B-27		146976-0-12	A-26	
	H-52-14		142999-0-01	Z-46- 2		146494-0-01	B-36		146976-0-13	A-26	
	H-53-14		143196-0-01	A-90		146495-0-01	B-39		146976-0-14	A-26	
	H-54-14		143323-1-03	H-36		146496-2-01	B-24		146976-0-15	A-26	
	H-55-14		143325-0-01	H-35		146497-1-01	B-42		146976-0-16	A-26	
	H-56-14		143766-0-01	A-86		146498-0-01	B-54		146976-0-17	A-26	
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140272-0-01	H-51- 8		143980-0-01	R- 2- 1		146500-0-01	B-54		146976-0-19	A-26	
	H-52- 8		144049-0-01	E-11		146501-0-01	B-55		146976-0-21	A-26	
	H-53- 8		144074-0-00	J-10		146502-0-01	B-55		146976-0-23	A-26	
	H-54- 8		144075-0-01	J-11		146503-0-01	B-55		146976-0-25	A-26	
	H-55- 8		144083-0-01	H- 4		146504-0-01	B-56		146976-0-27	A-26	
	H-56- 8		144084-0-01	H- 2		146505-0-01	B-56		146976-0-29	A-26	
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	H-52- 7		144103-0-03	K-17		146507-0-01	B-57		146976-0-31	A-26	
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	H-54- 7		144105-0-00	K-19		146509-0-01	B-59		146976-0-36	A-26	
	H-55- 7			K-51		146510-0-01	B-61		146976-0-37	A-26	
	H-56- 7			P- 2-18		146522-0-01	H-31		146976-0-38	A-26	
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	H-52- 6		144117-0-00	J- 7					146976-0-43	A-26	
	H-53- 6		144124-0-01	Z- 6		146547-0-00	G-51		146976-0-46	A-26	
	H-54- 6		144127-0-02	E-13		146559-0-01	G-33		146976-0-47	A-26	
	H-55- 6		144225-0-01	Z-27		146563-0-01	G-40		146976-0-51	A-26	
	H-56- 6		144622-0-01	L-34- 1		146567-0-01	G-76		146976-0-64	A-26	
140313-0-01	F-12			N-14- 2		146568-0-01	G-79		146976-0-69	A-26	
140317-0-00	J- 6		144764-0-01	P- 2- 8		146569-0-01	G-89		146976-0-78	A-26	
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140342-0-01	Z- 2			H-52-11		146571-0-01	G-86		146976-0-80	A-26	
140361-0-01	A-60			H-53-11		146572-0-01	G-75		146976-0-81	A-26	
140417-0-00	D-13			H-54-11		146573-0-01	G-78		146976-0-82	A-26	
140759-0-00	Z-15			H-55-11		146574-0-01	G-88		146976-0-88	A-26	
140991-0-01	H-53- 5			H-56-11		146575-0-01	G-80		146976-0-89	A-26	
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	H-52- 4			H-52- 9		146577-0-01	G-77		146976-0-91	A-26	
	H-53- 4			H-53- 9		146578-0-01	G-84		146976-0-92	A-26	
	H-54- 4			H-54- 9		146584-0-01	J-19		146976-0-95	A-26	
	H-55- 4			H-55- 9		146587-1-02	P- 2		146976-0-97	A-26	
	H-56- 4			H-56- 9		146588-0-01	P- 2-12		146976-0-98	A-26	
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	H-52- 3		144784-0-01	P- 2- 2		146590-0-01	P- 2-22		147055-0-01	Z-46- 5	
	H-53- 3		144788-0-01	P- 2-19		146592-0-01	P- 2-29		147056-0-01	Z-46- 1	
	H-54- 3		144874-0-01	L-54		146594-0-01	P-14		147060-0-01	Z-46-12	
	H-55- 3		145147-0-01	H-45-11		146635-0-01	F-30		147148-0-01	K-55	
	H-56- 3			H-46-11		146654-0-01	K-33		147149-0-01	K-52	
141183-0-00	A-53			H-49-11		146663-0-01	K-41		147362-0-00	G-72	
141514-0-01	P- 1- 4			H-50-11		146700-0-01	Z- 8		147369-0-01	B-60	
	P- 1- 7- 5		145277-1-04	Z-26		146865-0-01	H-45-14		147371-0-01	H-47-11	
141542-0-01	H-14		145446-0-01	K-16			H-47-14		147373-0-00	R- 7	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
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147440-0-00	R-4			G-45- 1- 5		151475-0-00	M- 1- 2		154872-0-01	C-10	
147454-0-01	P- 1- 1			H-28		151488-0-01	A-26		154873-0-01	C-11	
147488-0-01	H-55- 5			J- 5- 2		151488-0-02	A-26				
147489-0-01	H-56- 5			N- 5		151488-0-03	A-26		154875-0-01	C-12	
147672-0-01	P- 1- 3		149171-0-01	E- 9		151617-0-01	K-58			H-21	
147738-0-00	M- 1- 4			F-33		152194-0-01	A-97- 4		154876-0-01	C-14	
	M-10- 3		149173-0-01	Z-10			A-99- 4		154877-0-01	C-15	
147759-0-01	H- 1		149260-0-01	H-45- 8		152718-0-01	B-14- 2		154878-0-01	C-16	
147783-0-01	B-61			H-47- 8			D- 2- 2		154879-0-00	C-18	
147787-0-01	H-54- 5			H-49- 8			J- 4- 2		154880-0-01	C-17	
147829-0-01	G-82		149261-0-01	H-45- 9		152936-0-01	L-61		154881-0-00	C-19	
147830-0-01	G-83			H-47- 9		153317-0-01	Z-47- 3		154882-0-01	C-21	
147831-0-01	G-87			H-49- 9		153318-0-01	Z-47- 1				
147893-0-01	Z-29		149262-0-01	H-45- 7		153319-0-01	Z-47- 8				
147919-0-01	Z-41			H-46- 7					154885-0-01	C-13	
147919-0-02	Z-42			H-47- 7					154886-0-01	C-23	
147933-0-01	P- 2-13			H-49- 7		153483-0-01	H-33		154887-0-01	C-22	
147942-0-01	M- 6			H-50- 7		153675-0-01	H-20		154888-0-01	B-15	
148015-0-01	H-57- 4		149265-0-01	H-46- 8			L-32				
	H-57- 5			H-50- 8		154795-0-01	P- 2-26		154891-0-01	B-11	
			149266-0-01	H-46- 9		154798-0-01	A-21		154892-0-00	B-13	
148017-0-01	H-57-10			H-50- 9		154800-0-00	A-23		154894-0-00	B-12	
148019-0-01	H-57- 6					154801-0-01	A-44		154895-0-01	B- 4	
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148232-0-01	F-27			K-21- 1		154804-0-01	A-55		154899-0-01	B- 3	
148240-0-01	F-19			K-22- 1		154805-0-00	A-56		154900-0-01	B-20	
148241-0-01	F-17			K-23- 1		154806-0-00	A-28		154901-0-01	B-21	
148259-0-01	H-13			P- 2-17		154808-0-01	A-32		154902-0-01	B-19	
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148294-0-01	D- 8- 4		150145-0-01	Z-46-10		154812-0-01	A-17		154905-0-00	B-23	
	F-28		150162-0-01	Z-46		154813-0-00	A-15		154914-0-01	B-50	
	L-47		150172-0-01	Z-46- 8		154814-0-01	A-18		154916-0-01	B-51	
148343-0-01	J-23		150174-0-00	Z-46- 4		154815-0-01	A-20		154918-0-01	B-52	
148344-0-01	J-24		150175-0-01	Z-46-17		154817-0-01	A-83		154919-0-01	B-52- 1	
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			150180-0-00	Z-46-14		154820-0-00	A-76		154923-0-01	J-20	
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148391-0-01	P- 1- 6		150188-0-01	Z-46-22		154829-0-01	A-93		154932-0-00	M- 1- 3	
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148425-0-01	B-15- 5		150202-0-01	Z-46- 9- 3		154831-0-01	A-52		154936-0-00	M- 1- 1	
	C-11- 2		150553-0-02	P- 2-31		154832-0-01	A- 6		154939-0-00	M- 3	
	D- 3- 2		150556-0-02	P- 5		154833-0-01	B-29		154940-0-00	M- 4	
	D- 8- 8		150807-0-01	K-48		154834-0-01	A- 8		154941-0-00	M- 7	
	E- 2- 2		150808-0-01	K-40		154835-0-01	A-58		154942-0-00	M- 5	
	F- 5- 2		150810-0-01	K-43		154836-0-01	A-67		154943-0-01	M- 8	
	J- 5- 5		150811-0-01	K-45		154837-0-01	A-81		154945-0-00	M- 8- 2	
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148432-0-01	Z-21		151464-0-01	H-40- 5		154843-0-00	A-70				
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148834-0-01	B- 2		151473-0-01	B-62			A-99- 5		154956-0-01	H-26	
148838-0-01	F- 3		151474-0-11	B-26		154861-0-01	A-97		154957-0-01	H-29	
	G-15		151474-0-14	B-26		154863-0-01	A-99		154958-0-00	H-23	
148839-0-01	B-60		151474-0-16	B-26		154865-0-01	C- 8		154959-0-01	H-22	
148851-0-01	K-60		151474-0-21	B-26		154866-0-01	C- 1		154960-0-01	H-17	
149170-0-01	B-16		151474-4-11	Z-12		154867-0-01	C- 3		154961-0-01	H-19	
	D- 8- 2		151474-4-14	Z-12		154869-0-00	C- 4		154962-0-01	H-18	
	G- 7- 1- 2		151474-4-16	Z-12		154870-0-01	C- 7		154965-0-01	H-38- 2	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
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	H-40- 2			G-23		155247-0-00			155555-0-00	A-65	
	H-45- 2		155158-0-01	G-17			A-79		155560-0-01	G-47	
	H-46- 2		155159-0-01	G- 7			E- 7		155696-0-01	K-21	
	H-47- 2					155248-0-01	E- 8		155696-0-02	K-22	
	H-48- 2		155162-0-01	D- 8- 3		155249-0-01	F- 6		155696-0-03	K-20	
	H-49- 2			G- 7- 1- 3		155250-0-01	F- 5		155696-0-04	K-23	
	H-50- 2					155252-0-01	F- 1		155697-0-01	K-21- 2	
	H-51- 2		155164-0-01	G-21		155253-0-01	F- 4		155697-0-02	K-22- 2	
	H-52- 2		155165-0-01	G-22		155254-0-01	F- 8		155697-0-03	K-20- 2	
	H-53- 2		155166-0-01	G- 8		155255-0-01	F-14		155697-0-04	K-23- 2	
	H-54- 2		155167-0-01	G- 9		155256-0-01	F-26		155863-0-01	B-14	
	H-55- 2		155168-0-01	G-25		155257-0-01	F-25			D- 2	
	H-56- 2		155169-0-01	G-30		155258-0-01	F-16			J- 4	
	H-57- 2		155170-0-00	G-28		155259-0-00	F-24		156022-0-01	Z-16	
154966-0-01	N-11- 6		155171-0-01	G-32		155260-0-00	F-22		181031-0-01	R- 1	
154967-0-01	H-59		155172-0-01	G-35		155261-0-00	F-23		181969-0-03	A-54	
155000-0-01	H-45		155174-0-01	G-41		155262-0-01	F-32			G-27	
155102-0-01	H-45- 3		155175-0-01	G-36		155263-0-01	L-33			G-52	
	H-46- 3		155176-0-01	G-37		155264-0-01	L-34			H-24	
	H-47- 3		155177-0-00	G-64					181995-0-01	L-34- 2	
	H-49- 3		155178-0-01	G-65					181995-0-02	P- 2- 7	
	H-50- 3		155181-0-01	J- 5		155269-0-01	L-31		210973-0-01	Z-37	
155103-0-01	H-45- 4					155270-0-01	L- 9		211964-0-01	Z-47- 6	
	H-46- 4										
	H-47- 4					155272-0-01	L-29		148797-0-01	P-11-10	
	H-49- 4		155185-0-01	J- 1					155324-0-01	Z-47	
	H-50- 4		155186-0-00	J- 3		155282-0-01	L-10		155325-0-01	Z-47-10	
155104-0-01	H-46		155188-0-01	J- 8		155284-0-01	L- 7		155326-0-01	Z-47- 9	
155106-0-01	H-38		155190-0-01	J-21		155286-0-01	L- 1		155348-0-00	G-61	
155109-0-01	H-51		155192-0-01	J-17		155290-0-00	L- 3		15539-0-00	N- 2	
155111-0-01	H-52		155193-0-01	J-12		155291-0-01	L- 4		155547-0-02	P- 1	
155112-0-01	H-53			Z-13		155292-0-01	L-22		156062-0-01	H-45	
155113-0-01	H-54		155194-0-01	J-13		155294-0-00	L-15		156066-0-01	H-46	
155114-0-01	H-55		155195-0-01	J-15		155295-0-01	L-16		156195-0-01	H-49	
155115-0-01	H-56		155196-0-01	P-11		155296-0-00	L-41		156197-0-01	H-50	
155116-0-01	H-47		155197-0-01	P-11- 1		155297-0-00	L-42		156199-0-01	H-47	
155117-0-01	H-49		155198-0-01	P-11- 5		155298-0-00	L-43				
155118-0-01	H-57		155199-0-01	P-11- 8		155299-0-00	L-53				
155120-0-01	H-50					155300-0-00	L-52				
155121-0-01	H-48		155201-0-01	P-11- 6		155301-0-01	L-46				
155123-0-01	H-39		155202-0-01	P-11- 4		155302-0-01	L-56				
155124-0-01	H-40		155203-0-01	P-11- 2		155303-0-01	L-59				
155125-0-01	G-45		155205-0-01	P-13		155304-0-01	K- 9				
			155207-0-01	N-14		155305-0-01	K- 7				
						155306-0-01	K- 5				
						155307-0-01	K- 3				
			155212-0-01	N-11		155309-0-01	K- 1				
155132-0-01	G-45- 9		155213-0-01	N-11- 8		155310-0-01	K- 2				
155133-0-01	G-45-10		155214-0-00	N-11- 8- 1		155311-0-01	K-29				
			155215-0-00	N-11- 8- 3		155312-0-01	K-30				
			155216-0-00	N-11- 1		155313-0-01	K-35				
			155217-0-01	N-11- 4		155314-0-01	K-11				
155137-0-01	G-45- 1- 3		155218-0-01	N-11- 3		155316-0-01	K-57				
155138-0-01	G-59		155219-0-00	N- 3		155318-0-01	K-39				
155139-0-01	G-57		155220-0-00	N- 6		155320-0-01	Z- 5				
155140-0-01	G- 4		155222-0-01	N- 4		155321-0-00	Z-36				
155141-0-00	G- 6		155223-0-01	N- 1		155322-0-01	Z-17				
155142-0-00	G-10		155224-0-01	N- 9		155323-0-00	Z-43				
155143-0-00	G-16		155225-0-01	D- 3		155327-0-01	Q- 1				
155144-0-01	G- 1			E- 2		155329-0-01	P- 1- 7				
155145-0-00	G- 2		155228-0-01	D- 5		155330-0-01	P- 1- 7- 1				
155146-0-01	G-50		155229-0-00	D- 1		155340-0-01	A-95				
			155230-0-00	D- 7		155516-0-01	D- 4				
155151-0-00	G-63		155231-0-01	D- 8			E- 3				
155152-0-01	G-53		155238-0-00	D- 9			F-29				
155153-0-00	G-48		155240-0-01	D-11			G-26				
155154-0-01	G-12		155241-0-01	D-14		155519-0-01	A-30				
155155-0-01	G-11		155244-0-01	E- 4		155520-0-00	A-30- 2				
155156-0-01	G-18		155245-0-00	E- 1		155533-0-01	F-10				