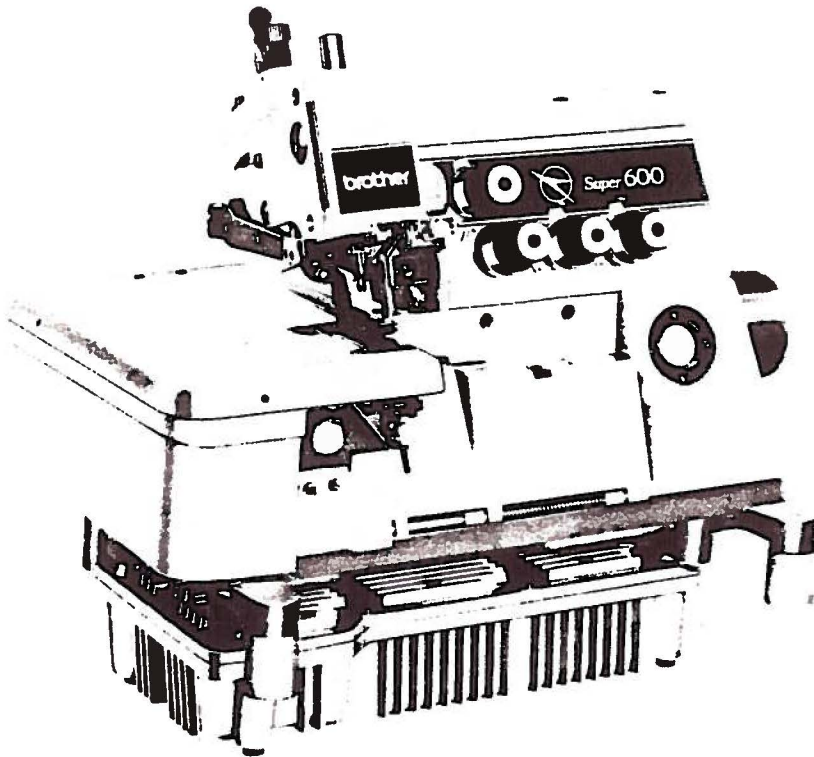


# brother

## PARTS BOOK

EF4-B621

P621002



Ultra High Speed Twin Needle Overlock Sewing Machine

PICK LOCATION  
03WS13-301

ORDER: 346022



QUANTITY  
1  
EA  
0 CASES  
0 EA

BATCH: 52

PART: 195621002



PARTS LIST MODEL EF4-B621

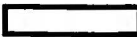
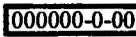
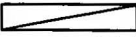


We're at your side.  
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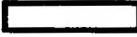

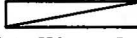
From the library of: Superior Sewing Machine & Supply LLC





## 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 28).
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 ist paired parts.
5. This book was prepared based on information available in January, 1981.
6. Parts are subject to changes in design without prior notice.


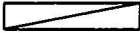
## Anmerkungen zum Gebrauch dieses Stücklistebuches

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 28) 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 Januar, 1981.
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 nontré 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 "N° de pièce" ou dans la colonne "N° de ensemble", se référer à la liste de pièces annexe (page 28).
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° de 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 Janvier ,1981.
6. Les pièces peuvent être sujettes à des modifications sans préavis.

## Notas para usar este Libro de Piezas

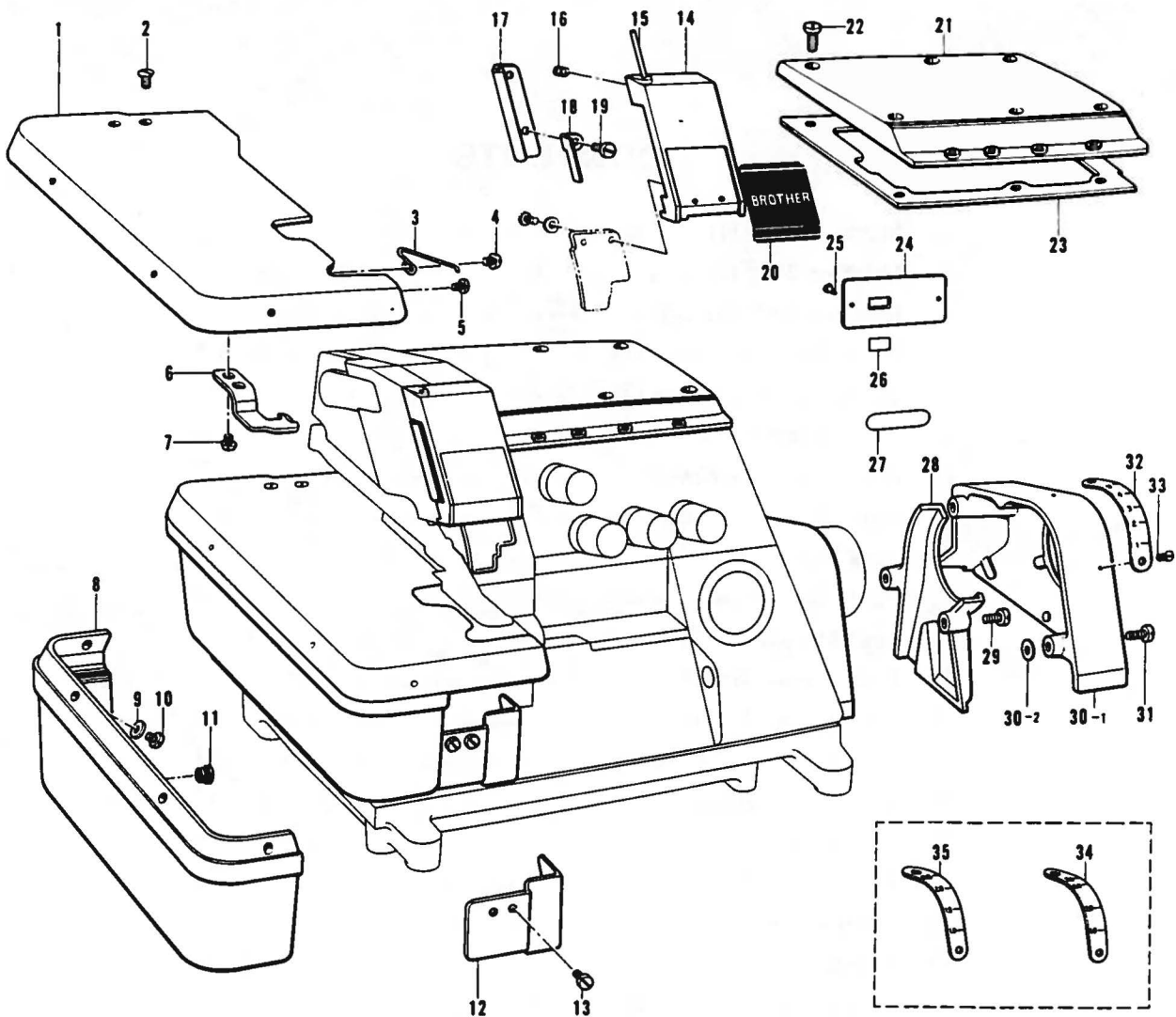
1. Este libro sirve para todas las máquinas de coser que llevan la misma placa de identificación que la que se puede ver en la tapa de este libro ( o en la hoja de erratas).
2. De haber el símbolo  o el 000000-0-00 en la columna del "Número de Pieza" o en la del "Número de Juego", habrá que ver la lista de piezas separada (página 28).
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. Sie antes del número de una pieza, se sncuentra el símnoelo \*, 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 Enero de 1981.
6. Las piezas quedan sujetas a cambios de diseño sin aviso previo.



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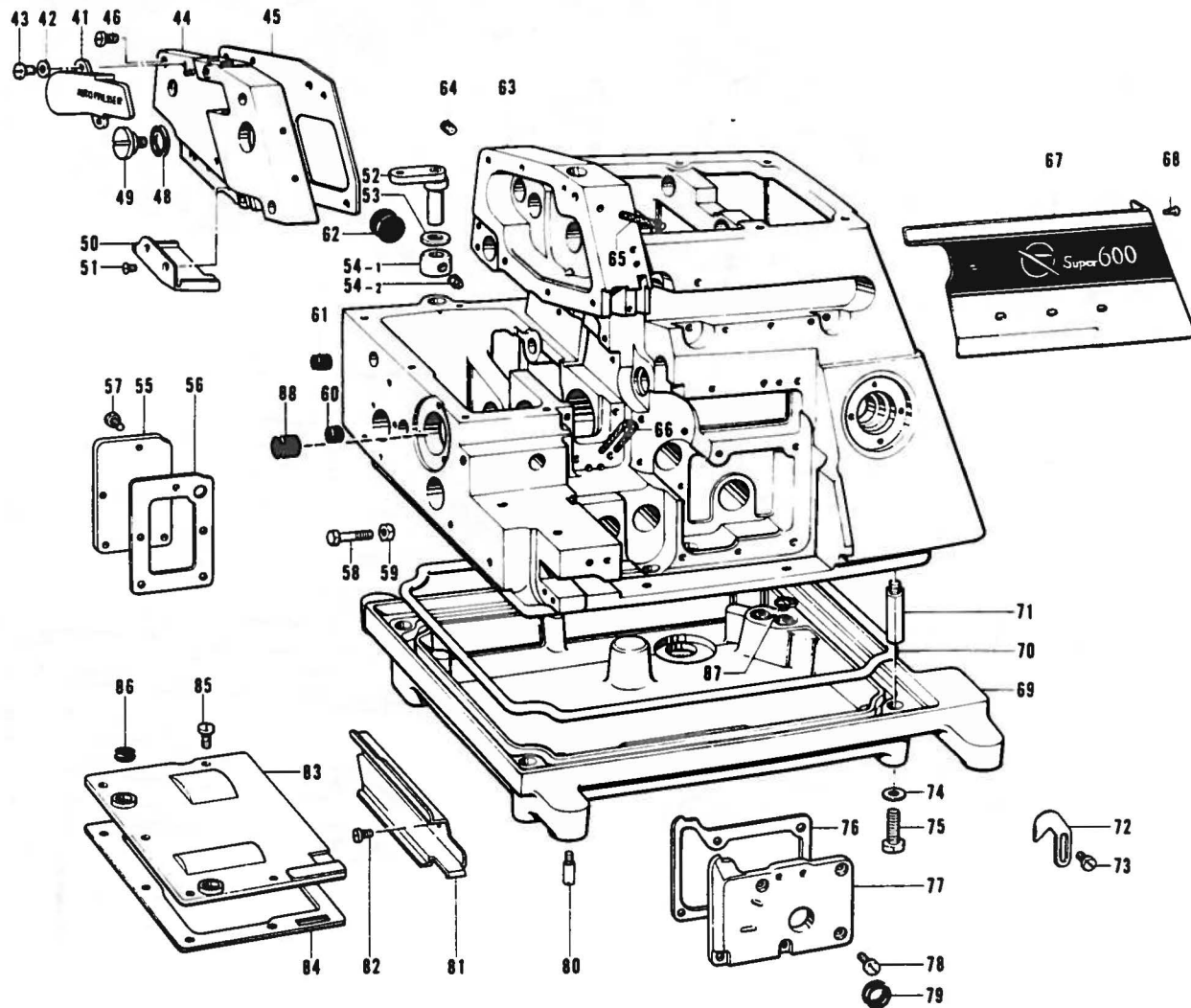
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# A. Machine Body (1)



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-20	Name Plate	1	154815-0-01	
A-2	Screw 4.37	2	100032-0-03		A-21	Top Cover	1	154798-0-01	
A-3	Spring	1	146450-0-01		A-22	Screw 4.37 x 12	6	009681-2-12	
A-4	Screw 3.57 x 5	1	001670-5-12		A-23	Packing	1	154800-0-00	
A-5	Screw 3.57 x 5	1	007670-5-13		A-24	Model Plate 621	1		
A-6	Stopper for Cloth Plate	1	154832-0-01		A-25	Pin	2		
A-7	Screw 3.57 x 5	2	001670-5-12		A-26	Label	1		
A-8	Cloth Plate Lower	1	154834-0-01		A-27	Parts Book Number Plate	1		
A-9	Washer	4	025350-3-32		A-28	Fan Case	1	154806-0-00	
A-10	Screw 3.57 x 6	4	001670-6-12		A-29	Screw 4.37 x 10	2	009681-0-12	
A-11	Oil Cap	2	104450-0-01		A-30-1	Belt Cover	1		
A-12	Front Cover Guide	1	154821-0-01		A-30-2	Washer	2	155520-0-01	A-30 Belt Cover Assembly 155519-0-01
A-13	Screw 3.57 x 6	2	009670-6-12		A-31	Screw 4.37 x 10	2	009681-0-12	
A-14	Face Plate Cover	1	154811-0-01		A-32	Stitch Length Control Plate	1	154808-0-01	
A-15	Pin for Face Plate	1	154813-0-00		A-33	Screw 2.38	2	105288-0-01	
A-16	Screw 3.18	1	146427-0-01		A-34	Stitch Length Control Plate	1	154810-0-01	
A-17	Face Plate Cover Hinge	1	154812-0-01		A-35	Stitch Length Control Plate	1	154809-0-01	
A-18	Spring	1	154814-0-01						
A-19	Screw 3.57 x 7	2	009670-7-12						

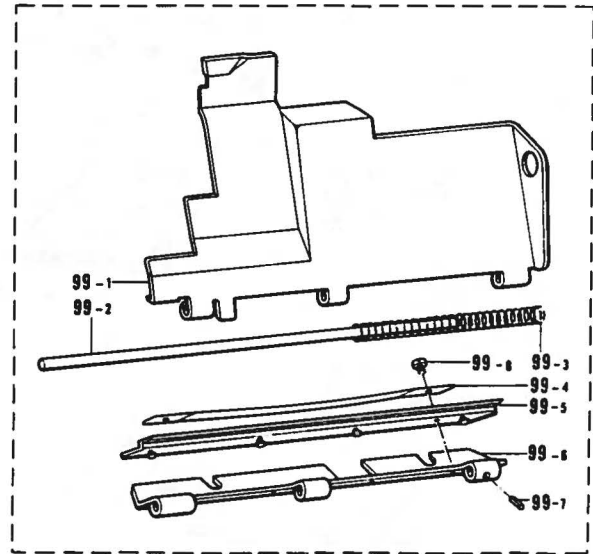
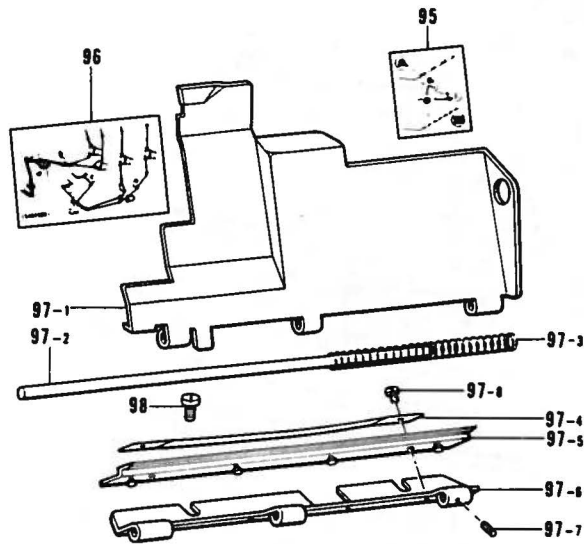
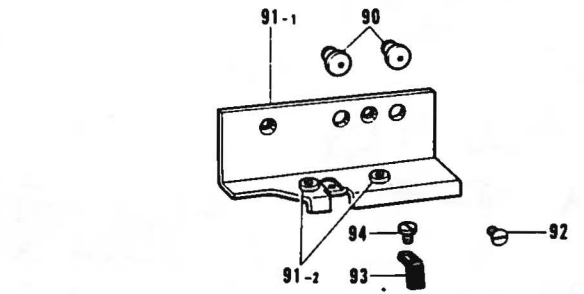
## A. Machine Body (2)



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-65	Wick 6 x 6 (15)	1	155555-0-00	
A-42	Washer	2	110735-0-02		A-66	Wick 4 x 4 (110)	1	112750-0-00	
A-43	Screw 4.37 x 7	2	009680-7-12		A-67	Emblem Plate	1	154836-0-01	
A-44	Cover for Needle Driving Mechanism	1	154801-0-01		A-68	Pin	2	124918-0-01	
A-45	Packing	1	154802-0-00		A-69	Oil Reservoir	1	154842-0-01	
A-46	Screw 4.37 x 7	6	009680-7-12		A-70	Packing	1	154843-0-00	
A-48	"O" Ring	1	109203-0-01		A-71	Machine Body Leg	4	148085-0-01	
A-49	Screw 9.52	1	110641-0-02		A-72	Adjusting Plate	1	155552-0-01	
A-50	Cloth Guide (S)	1	154838-0-01		A-73	Screw 3.57 x 6	2	009670-6-12	
A-51	Screw 3.57	2	108960-0-02		A-74	Washer	4	118735-0-02	
A-52	Cloth Plate Supporter	1	154831-0-01		A-75	Bolt 6.35 x 16	4	017771-6-12	
A-53	Washer	1	141183-0-00		A-76	Packing	1	154820-0-00	
A-54-1	Set Collar	1		A-54 Collar Assembly 181969-0-03	A-77	Inside Cover	1	154819-0-00	
A-54-2	Screw 6.35	2	101706-0-01		A-78	Screw 3.57 x 8	5	009670-8-12	
A-55	Cover for Feed Mechanism	1	154804-0-01		A-79	Seal	1	155247-0-00	
A-56	Packing	1	154805-0-00		A-80	Set Pin Cushion	4	140077-0-01	
A-57	Screw 4.37	5	107407-0-03		A-81	Cloth Guide (L)	1	154837-0-01	
A-58	Bolt 4.37	2	154835-0-01		A-82	Screw 3.57 x 6	2	009670-6-12	
A-59	Nut	2	105234-0-03		A-83	Cover for Feed Mechanism	1	154817-0-01	
A-60	Oil Cap	1	146315-0-00		A-84	Packing	1	154818-0-00	
A-61	Oil Cap	1	146315-0-00		A-85	Screw 4.37 x 7	5	009680-7-12	
A-62	Oil Cap	1	140066-0-01		A-86	Oil Cap	2	143766-0-01	
A-63	Machine Body	1			A-87	"O" Ring	2	081011-0-70	
A-64	Screw 5.95	2	013760-6-12		A-88	Oil Cap	1	154841-0-01	

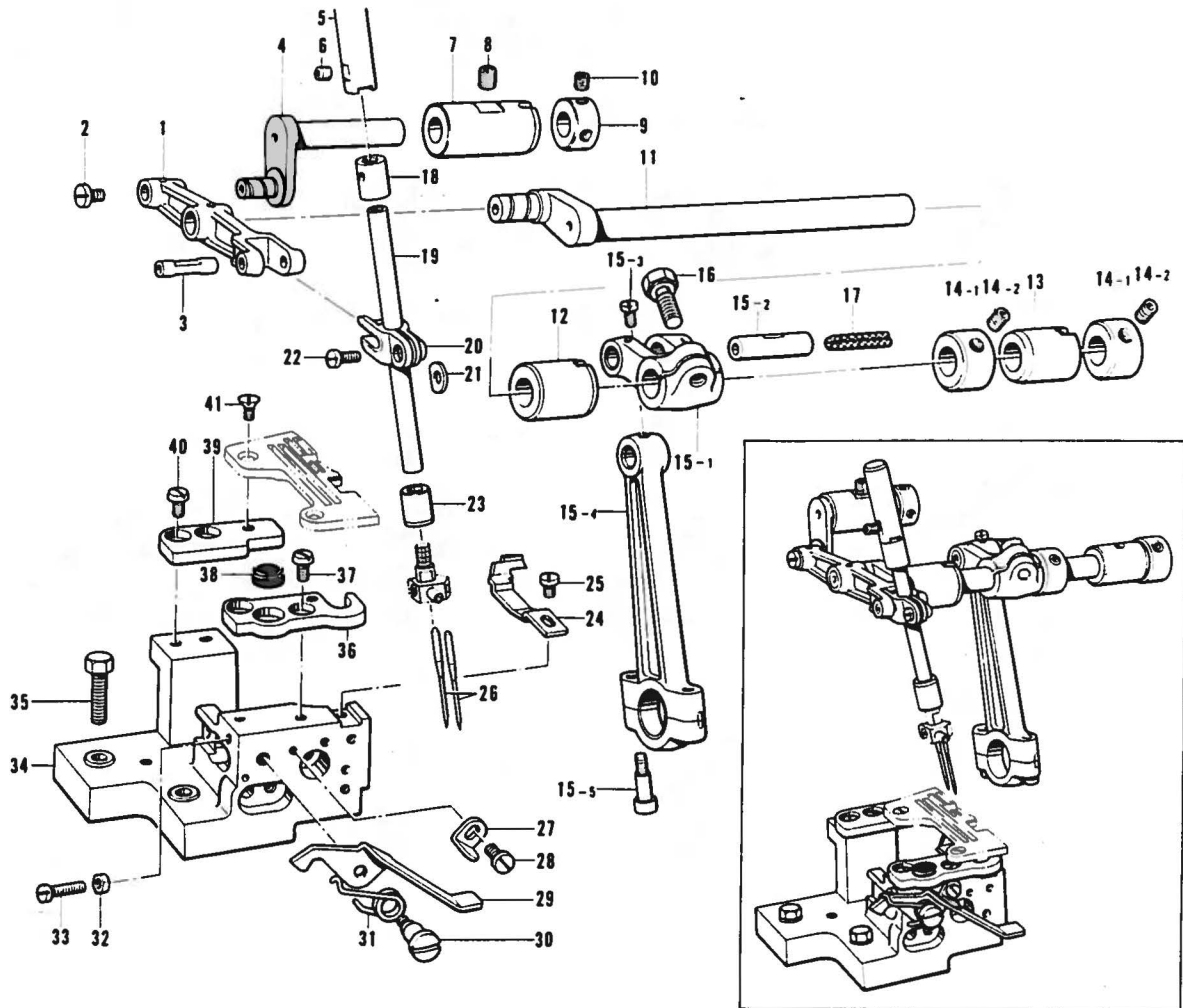


# A. Machine Body (3)



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-97-5	Hinge Cover	1	154856-0-00	A-97 Front Cover Assembly 154857-0-01	
A-91-1	Supporter for Front Cover	1		A-91	Supporter for Front Cover Assembly 154823-0-01	A-97-6	Front Cover Hinge	1		154854-0-01
A-91-2	Thread Bushing	2	146924-0-00		A-97-7	Spring Pin	1	047140-8-42		
A-92	Screw 4.37	2	117160-0-01		A-97-8	Screw 3.57 x 4	2	009670-4-12		
A-93	Stopper Spring for Front Cover	1	154829-0-01		A-98	Set Screw 4.37 x 6	2	009680-6-12		
A-94	Screw 3.57 x 4.5	1	123185-0-01		A-99-1	Front Cover	1		A-99 Front Cover Assembly 154859-0-01	
A-95	Looper Threading Label	1	155340-0-01		A-99-2	Shaft for Front Cover	1	154855-0-00		
A-96	Threading Diagram	1	154849-0-01		A-99-3	Spring	1	146442-0-01		
A-97-1	Front Cover	1		A-97	Front Cover Assembly 154857-0-01	A-99-4	Hinge Cover Presser Plate	1		152194-0-01
A-97-2	Shaft for Front Cover	1	154855-0-00		A-99-5	Hinge Cover	1	154856-0-00		
A-97-3	Spring	1	146442-0-01		A-99-6	Front Cover Hinge	1	154854-0-01		
A-97-4	Hinge Cover Presser Plate	1	152194-0-01		A-99-7	Spring Pin	1	047140-8-42		
					A-99-8	Screw 3.57 x 4	2	009670-4-12		

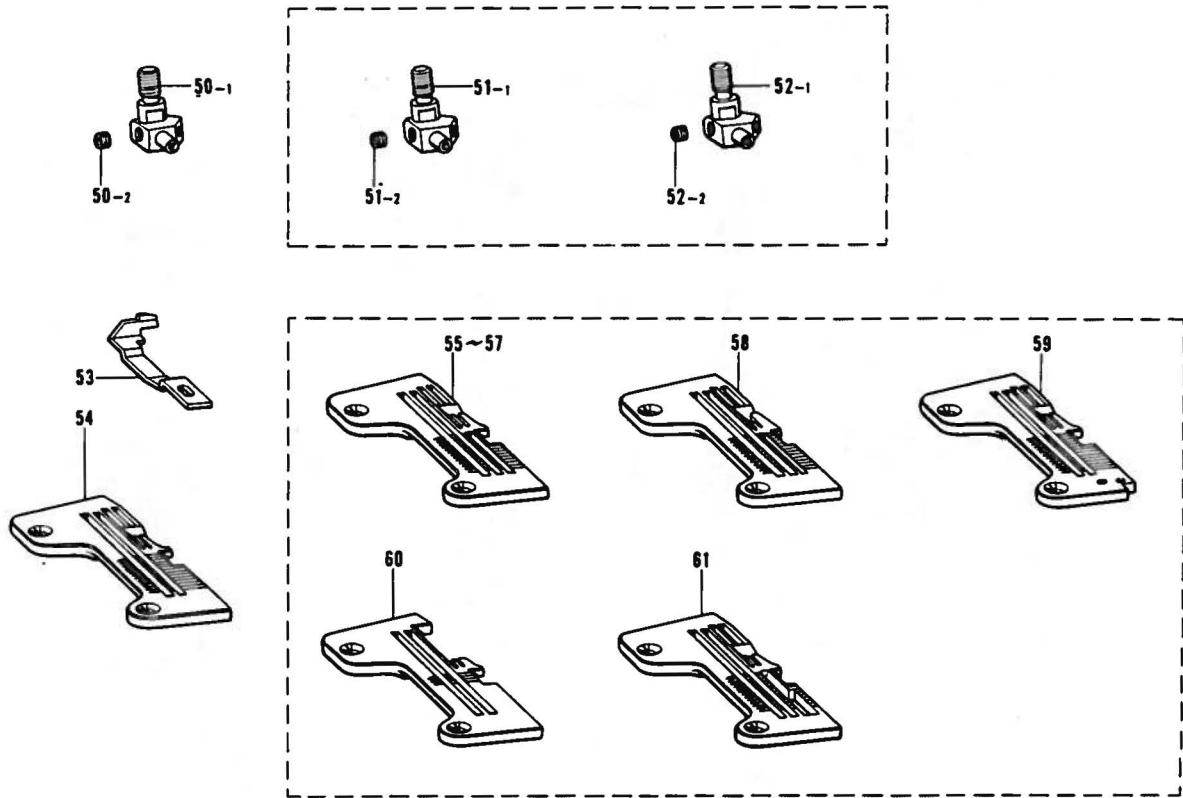
## B. Needle Bar Mechanism (I)



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-19	Needle Bar	1	154902-0-01	
B- 2	Screw 3.57	1	148834-0-01		B-20	Needle Bar Clamp	1	154900-0-01	
B- 3	Pin	1	154899-0-01		B-21	Spacer	1	154901-0-01	
B- 4	Needle Arm Supporter	1	154895-0-01		B-22	Screw 3.57 x 6	1	009670-6-12	
B- 5	Needle Bar Cap	1	154903-0-01		B-23	Needle Bar Bushing (D)	1	154905-0-00	
B- 6	Screw 3.18	1	146427-0-01		B-24	Needle Guard (F)	1	146777-0-01	
B- 7	Needle Arm Bushing	1	154896-0-00		B-25	Screw 3.57 x 6	1	009670-6-12	
B- 8	Screw 6.35	1	014780-6-22		B-26	Needle DC x 27 or DC x 3	2		
B- 9	Collar	1	110197-0-01		B-27	Cloth Plate Lever Stopper	1	146454-0-01	
B-10	Screw 4.37	2	014680-4-22		B-28	Screw 3.57 x 6	1	009670-6-12	
B-11	Needle Bar Crank Shaft	1	154891-0-01		B-29	Cloth Plate Lever	1	154833-0-01	
B-12	Needle Bar Bushing (Left)	1	154894-0-00		B-30	Stud Screw 3.57	1	146453-0-01	
B-13	Needle Bar Bushing (Right)	1	154892-0-00		B-31	Spring	1	146452-0-01	
B-14-1	Set Collar	2		B-14 Collar Assembly 155863-0-01	B-32	Nut	1	021670-2-02	
B-14-2	Screw 5.95	4	152718-0-01		B-33	Screw 3.57 x 14	1	009671-4-12	
B-15-1	Needle Bar Crank Shaft Arm	1		*B-15 Needle Arm Driving Crank Rod Assembly 154888-0-01	B-34	Needle Plate Support Bracket	1	154922-0-01	
B-15-2	Pin	1			B-35	Bolt 6.35 x 20	2	017782-0-12	
B-15-3	Screw 4.37	1	100366-0-01		B-36	Needle Plate Supporter (F)	1	146494-0-01	
B-15-4	Needle Arm Driving Crank Rod	1			B-37	Screw 4.37 x 5	2	001680-5-12	
B-15-5	Screw 4.37 x 14	2	148425-0-01		B-38	Cloth Plate Cushion (B)	1	111486-0-01	
B-16	Bolt 6.35 x 16	1	149170-0-01		B-39	Needle Plate Supporter (B)	1	146495-0-01	
B-17	Wick 8 x 8 (52)	1	140320-0-00		B-40	Screw 4.37 x 5	2	001680-5-12	
B-18	Needle Bar Bushing (U)	1	154904-0-00		B-41	Screw 4.37	2	100032-0-03	

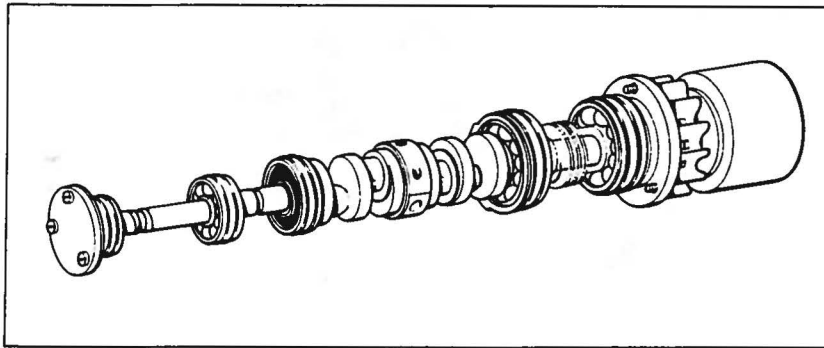
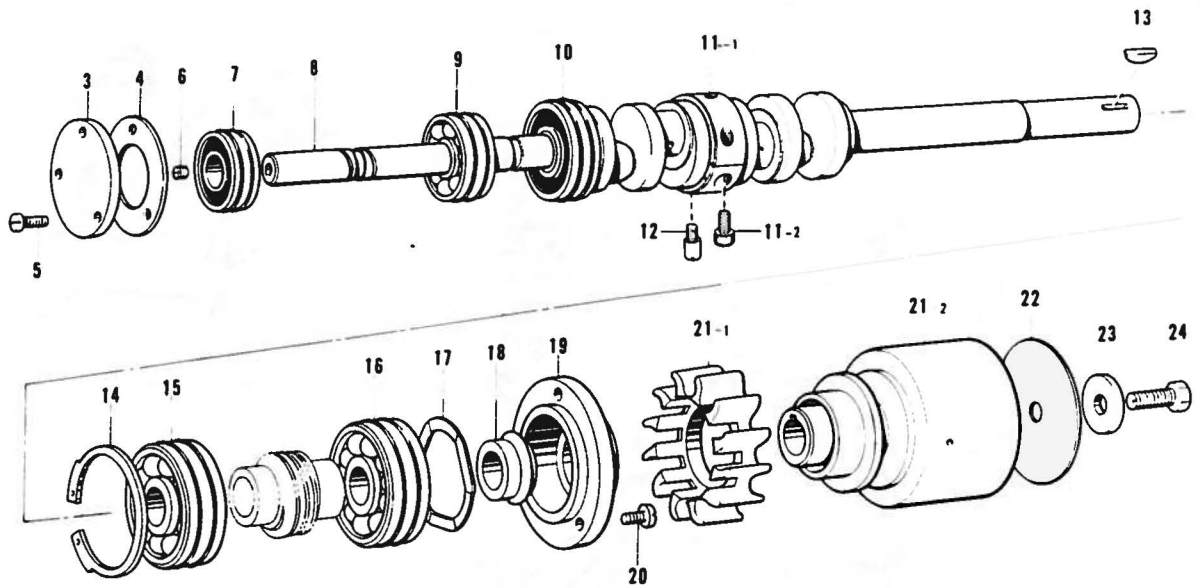


## B. Needle Bar Mechanism (2)



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 1.8	1		B-50 Needle Clamp 1.8 Assembly 154908-0-01	B-54	Needle Plate	1		
B-50-2	Screw 3.18	2	146427-0-01		B-55	Needle Plate	1		
B-51-1	Needle Clamp 2.2	1		B-51 Needle Clamp 2.2 Assembly 154912-0-01	B-56	Needle Plate	1		
B-51-2	Screw 3.18	2	146427-0-01		B-57	Needle Plate (Ruffling, Ruffling W/piping)	1		
B-52-1	Needle Clamp 3	1		B-52 Needle Clamp 3 Assembly 154912-0-01	B-58	Needle Plate (Denim)	1		
B-52-2	Screw 3.18	2	146427-0-01		B-59	Needle Plate (Backtacking)	1		
B-53	Needle Guard (F)	1	146778-0-01		B-60	Needle Plate (Piping)	1		
					B-61	Needle Plate (Bulky)	1		

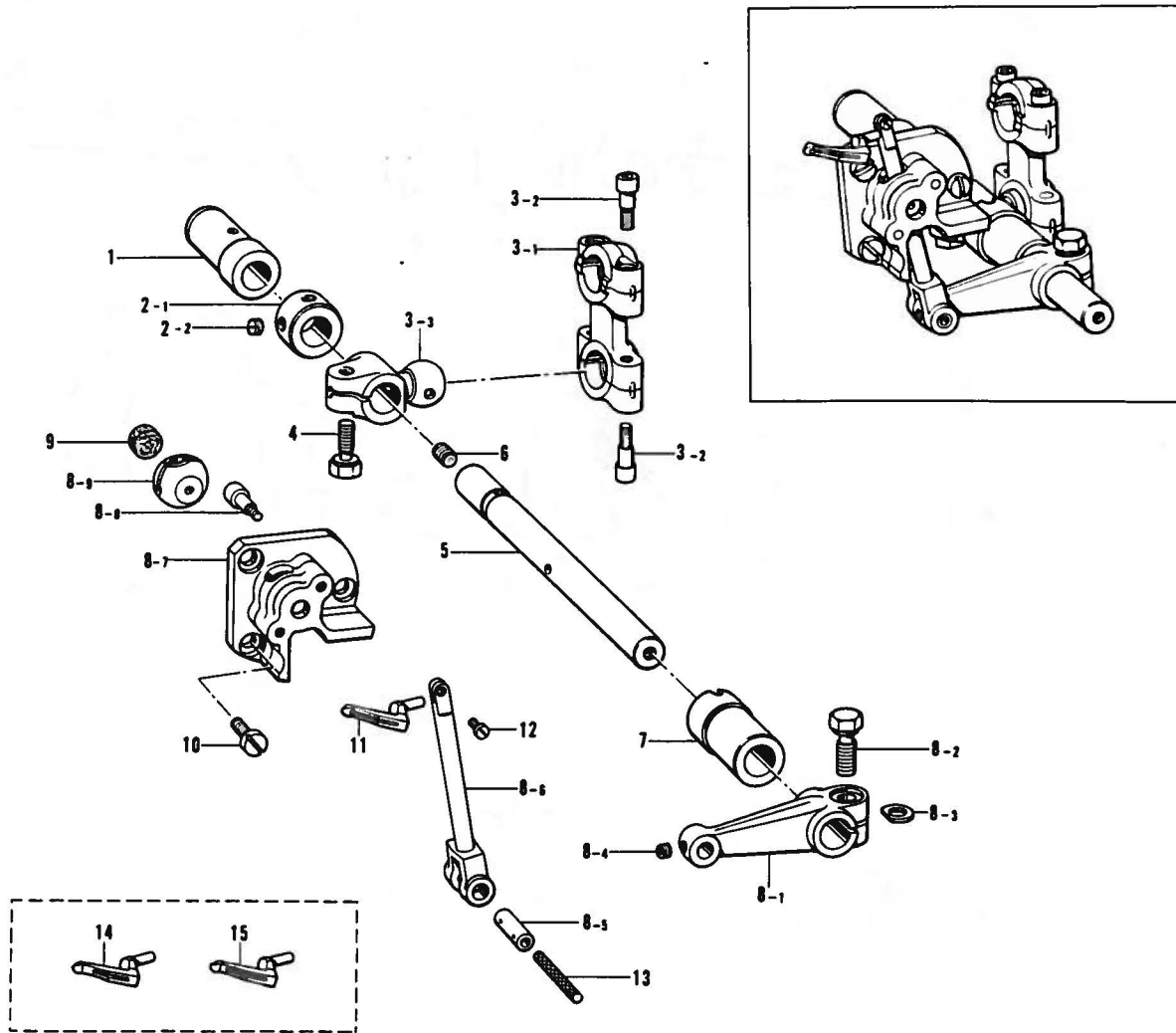
### C. Crank Shaft mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C-3	Bearing Cap	1	154868-0-01		C-14	Stop Ring	1	154876-0-01	
C-4	Packing	1	154869-0-00		C-15	Bearing 6302	1	154877-0-01	
C-5	Screw 3.57 x 8	3	009670-8-12		C-16	Bearing 6302Z	1	154878-0-01	
C-6	Screw 4.76	1	013719-4-12		C-17	Spring	1	154880-0-01	
C-7	Bearing 6001Z	1	154870-0-01		C-18	Oil Rejector	1	154879-0-00	
C-8	Crank Shaft	1	*154865-0-01		C-19	Bearing Presser	1	154881-0-00	
C-9	Bearing 6201Z	1	154871-0-01		C-20	Screw 4.37 x 10	3	009681-0-12	
C-10	Bearing 6202Z	1	154872-0-01		C-21-1	Fan	1		C-21 Pulley Assembly 154882-0-01
C-11-1	Crank Shaft Bushing	1		C-11 Crank Shaft Bushing Assembly 154873-0-01	C-21-2	Pulley	1		
C-11-2	Screw 4.37 x 14	2	148425-0-01		C-22	Pulley Cover	1	154887-0-01	
C-12	Screw 4.37	1	154875-0-01		C-23	Washer	1	154886-0-01	
C-13	Key	1	154885-0-01		C-24	Bolt 6.35 x 14	1	017771-4-12	

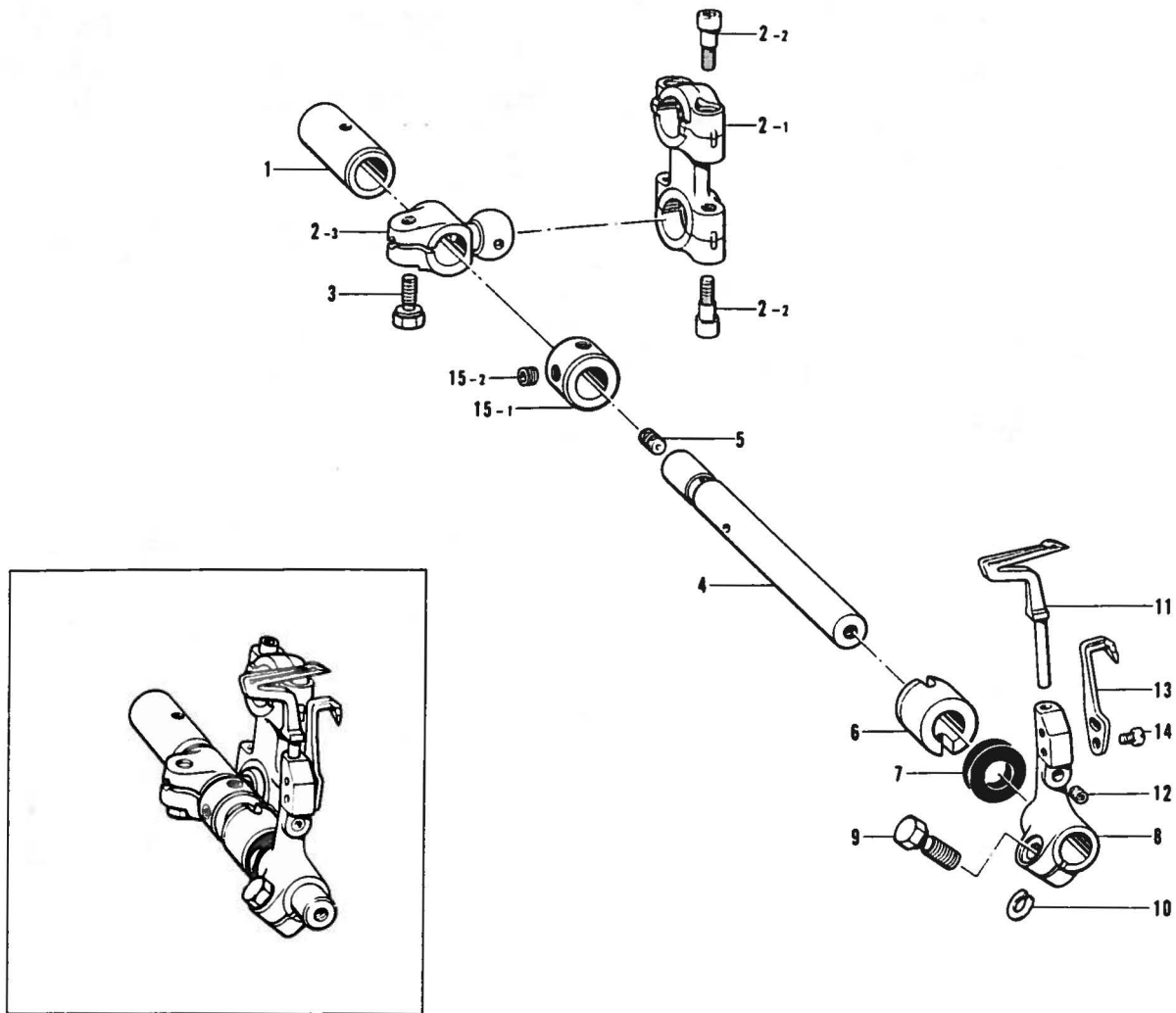
\* Crank Shaft Assembly (B-15, C-8, D-3, E-2, H-5) 155319-0-01

## 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	Over Looper (Mock Safety S)	1	155242-0-01	
					D-15	Over Looper (Mock Safety H)	1	155243-0-01	

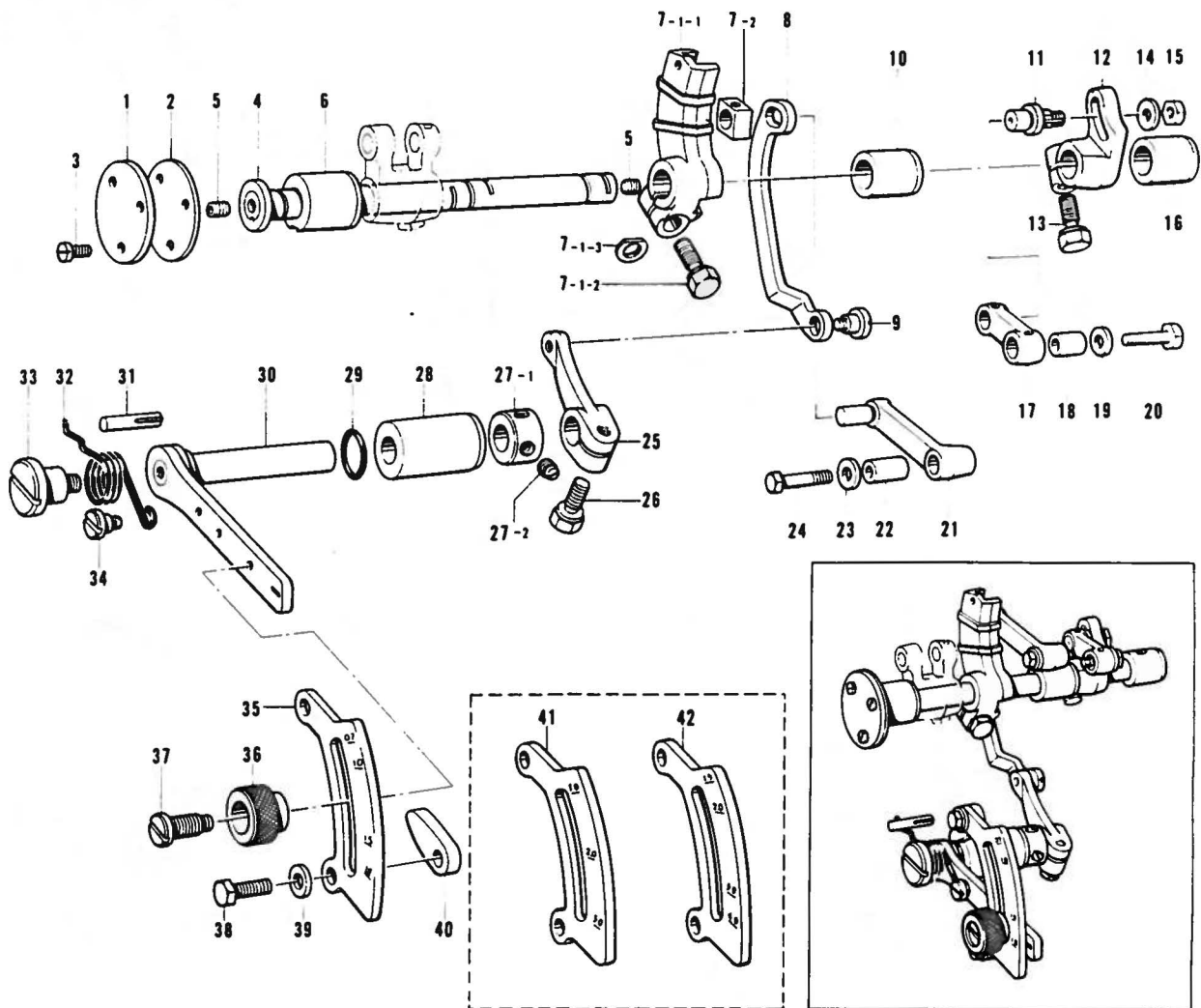
# E. Under Looper Mechanism



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- 8	Under Looper Holder	1	155248-0-01	
E- 2-1	Looper Connecting Rod	1		*E-2 Looper Connecting Rod Assembly 155225-0-01	E- 9	Bolt 5.56 x 14	1	149171-0-01	
E- 2-2	Screw 4.37 x 14	4	148425-0-01		E-10	Spacer	1	148782-0-01	
E- 2-3	Looper Connecting Lever	1		E-11	Under Looper	1	144049-0-01		
E- 3	Bolt 6.35 x 14	1	155516-0-01	E-12	Screw 4.37	1	014680-4-22		
E- 4	Under Looper Shaft	1	155244-0-01	E-13	Movable Needle Guard	1	144127-0-02		
E- 5	Screw 5.56	1	013750-5-12	E-14	Screw 3.57 x 8	2	009670-8-12		
E- 6	Under Looper Shaft Bushing (F)	1	155246-0-00	E-15-1	Set Collar	1		E-15 Collar Assembly 155863-0-01	
E- 7	Seal	1	155247-0-00	E-15-2	Screw 5.95	2	152718-0-01		



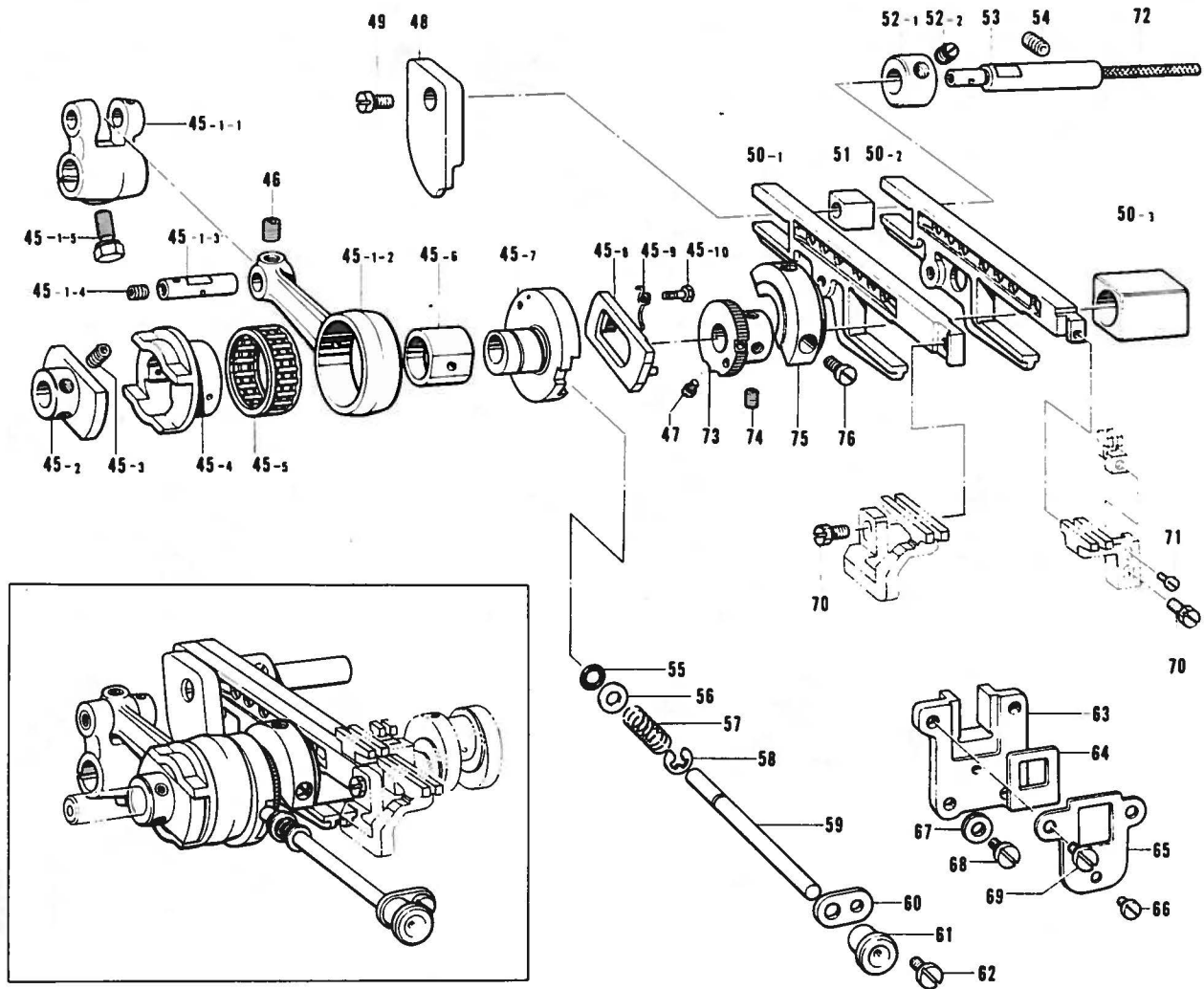
## F. Feed Mechanism (1)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F- 1	Cover for Feed Shaft Bushing (L)	1	155144-0-01		F-22	Differential Feed Link Bushing	1	155165-0-01	
F- 2	Packing	1	155145-0-00		F-23	Washer	1	155157-0-01	
F- 3	Screw 3.57 x 8	3	009670-8-12		F-24	Feed Link Shaft (Large)	1	140217-0-01	
F- 4	Feed Shaft	1	155140-0-01		F-25	Differential Feed Link Lever	1	155168-0-01	
F- 5	Screw 5.56	2	014770-6-22		F-26	Bolt 6.35 x 14	1	155516-0-01	
F- 6	Feed Shaft Bushing (L)	1	155141-0-00		F-27-1	Set Collar	1		F-27 Collar Assembly 181969-0-03
F- 7-1-1	Differential Feed Arm	1		F-7 Differential Feed Arm Block Assembly 155159-0-01	F-27-2	Screw 6.35	2	101706-0-01	
F- 7-1-2	Bolt 6.35 x 16	1	149170-0-01		F-28	Adjusting Lever Bushing	1	155170-0-00	
F- 7-1-3	Spacer	1	155162-0-01		F-29	"O" Ring	1	109203-0-01	
F- 7-2	Differential Feed Block	1			F-30	Differential Feed Adjusting Lever	1	155169-0-01	
F- 8	Differential Feed Adjuster Link	1	155166-0-01		F-31	Pin	1	140063-0-01	
F- 9	Screw 5.56	1	155167-0-01		F-32	Spring	1	155171-0-01	
F-10	Feed Shaft Bushing (M)	1	155142-0-00		F-33	Stud Screw 5.56	1	146559-0-01	
F-11	Main Feed Link Shaft	1	155155-0-01		F-34	Stud Screw 4.76	1	100294-0-02	
F-12	Main Feed Arm	1	155154-0-01		F-35	Differential Stitch Control	1	155172-0-01	
F-13	Bolt 6.35 x 16	1	149170-0-01		F-36	Knob	1	155175-0-01	
F-14	Washer	1	113431-0-02		F-37	Screw	1	155176-0-01	
F-15	Nut	1	148838-0-01		F-38	Bolt 6.35 x 14	2	017781-4-12	
F-16	Feed Shaft Bushing (R)	1	155143-0-00		F-39	Washer	2	118735-0-02	
F-17	Main Feed Link	1	155158-0-01		F-40	Stopper for Differential Stitch Control	2	146563-0-01	
F-18	Main Feed Link Bushing	1	155156-0-01		F-41	Differential Stitch Control (Ruffling)	1	155174-0-01	
F-19	Washer	1	155157-0-01		F-42	Differential Stitch Control (Bulky)	1	155173-0-01	
F-20	Main Feed Link Shaft (Small)	1	140210-0-01						
F-21	Differential Feed Link	1	155164-0-01						

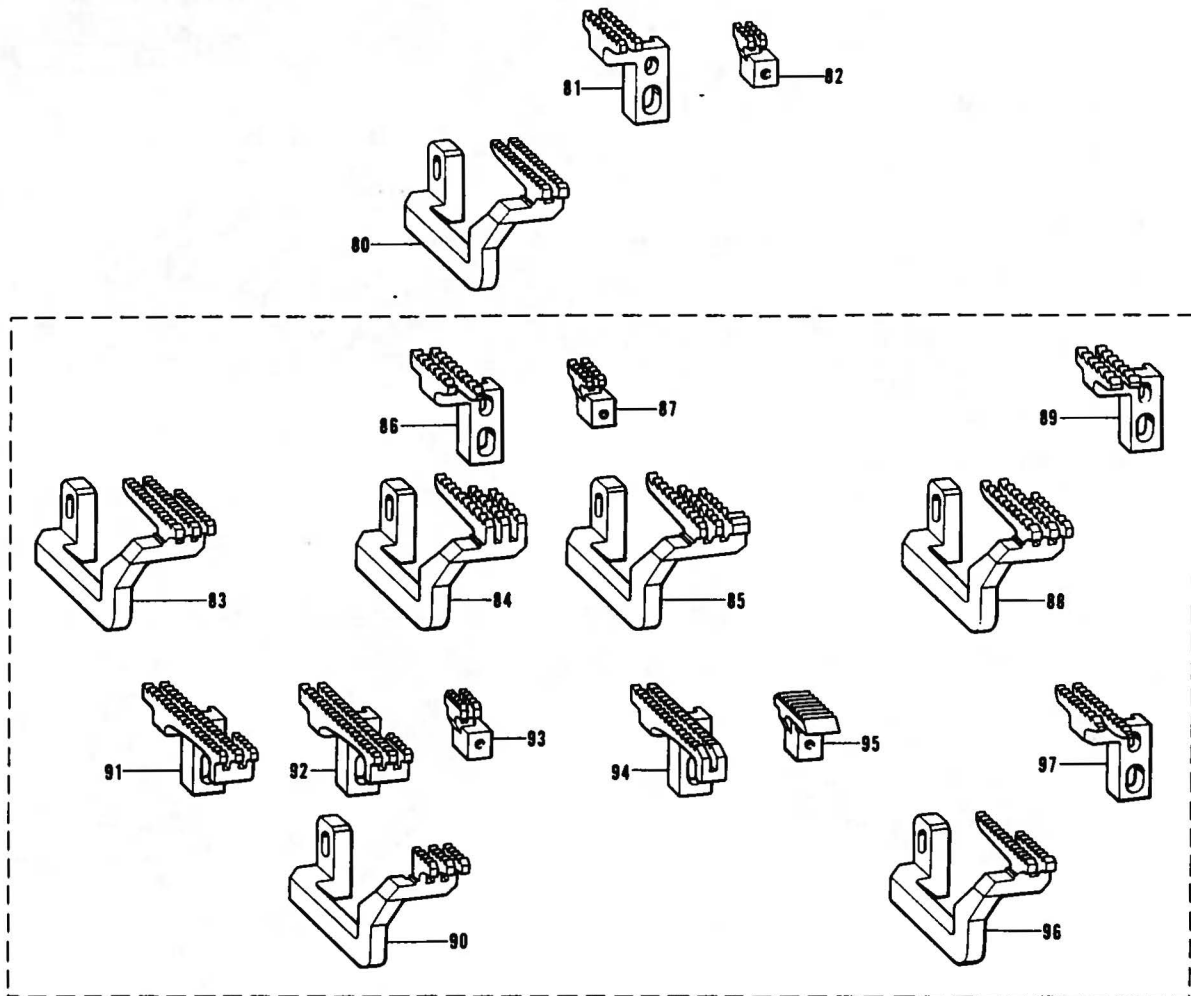


## F. Feed Mechanism (2)



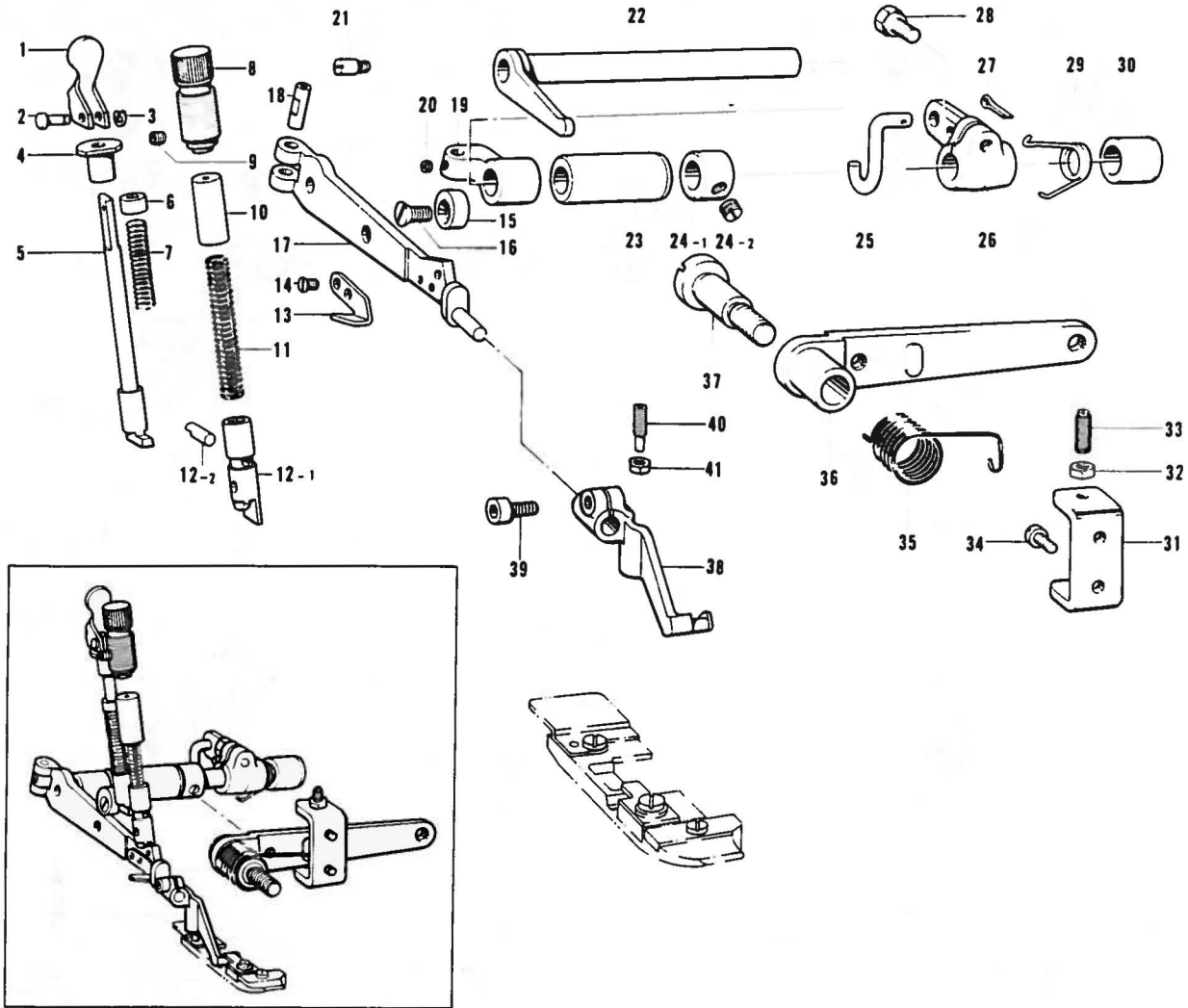
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F-45-1-1	Feed Arm	1		F-45 Eccentric Wheel Assembly 155125-0-01	F-53	Feed Bar Guide Block Shaft	1	155152-0-01	
F-45-1-2	Feed Rod	1			F-54	Screw 6.35	1	014780-6-22	
F-45-1-3	Pin	1			F-55	Packing	1	118770-0-01	
F-45-1-4	Screw 6.35	1	014770-6-22		F-56	Washer	1	113431-0-02	
F-45-1-5	Bolt 6.35 x 16	1	149170-0-01		F-57	Spring	1	155139-0-01	
F-45-2	Eccentric Wheel Holder	1			F-58	Stop Ring	1	048040-3-42	
F-45-3	Screw 4.37	2	014680-4-22		F-59	Feed Adjusting Shaft	1	155138-0-01	
F-45-4	Eccentric Wheel	1			F-60	Supporter for Feed Adjusting Shaft	1	146536-0-01	
F-45-5	Needle Roller Bearing 28	1			F-61	Cap	1	155348-0-00	
F-45-6	Adjuster Eccentric Wheel Block	1			F-62	Screw 3.57 x 6	1	009670-6-12	
F-45-7	Adjuster Eccentric Wheel	1		F-63	Feed Bar Guide	1	155151-0-00		
F-45-8	Ratchet Stopper	1		F-64	Fragment Protector	1	155177-0-00		
F-45-9	Spring	1	155132-0-01	F-65	Fragment Protector Plate	1	155178-0-01		
F-45-10	Stud Screw 2.38	1	155133-0-01	F-66	Screw 3.57	1	106568-0-03		
F-46	Screw 4.37	1	014680-4-22	F-67	Washer	2	100645-0-03		
F-47	Screw 2.38	1	155560-0-01	F-68	Screw 4.37	2	107407-0-03		
F-48	Differential Link Guide	1	155153-0-00	F-69	Screw 4.37	2	107407-0-03		
F-49	Screw 4.37 x 7	1	009680-7-12	F-70	Bolt 4.37	2	117516-0-01		
F-50-1	Differential Feed Bar	1		F-71	Screw 2.38 x 8	1	009630-8-12		
F-50-2	Main Feed Bar	1		F-72	Wick 8 x 8 (90)	1	147362-0-00		
F-50-3	Feed Lifting Slide Block	1		F-73	Ratchet	1	155179-0-01		
F-51	Feed Bar Guide Block	1	146547-0-00	F-74	Screw 4.37	2	014680-6-22		
F-52-1	Set Collar	1		F-75	Balance Weight	1	155180-0-01		
F-52-2	Screw 6.35	2	101706-0-01	F-76	Screw 4.37	2	105176-0-01		

## F. 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.
F-80	Differential Feed Dog	1	146748-0-01		F-90	Differential Feed Dog (Ruffling, Ruffling W/piping)	1	146751-0-01	
F-81	Main Feed Dog	1	146744-0-01		F-91	Main Feed Dog (Ruffling)	1	146746-0-01	
F-82	Chain Feed Dog	1	146577-0-01		F-92	Main Feed Dog (Ruffling W/piping)	1	147828-0-01	
F-83	Differential Feed Dog	1	146749-0-01		F-93	Chain Feed Dog (Ruffling W/piping)	1	147832-0-01	
F-84	Differential Feed Dog (Bulky)	1	146750-0-01		F-94	Feed Dog (Piping)	1	149193-0-01	
F-85	Differential Feed Dog (Bulky)	1	150873-0-01		F-95	Feed Dog (Piping)	1	149194-0-01	
F-86	Main Feed Dog (Bulky)	1	146745-0-01		F-96	Differential Feed Dog (Bulky)	1	148402-0-01	
F-87	Chain Feed Dog (Bulky, Ruffling)	1	146578-0-01		F-97	Main Feed Dog (Bulky)	1	148401-0-01	
F-88	Differential Feed Dog (Denim)	1	146791-0-01						
F-89	Main Feed Dog (Denim)	1	146790-0-01						

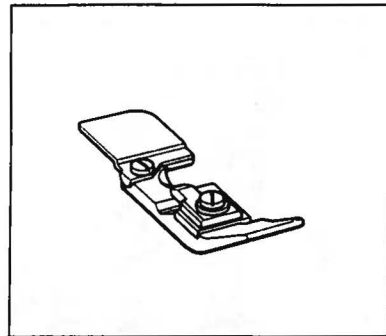
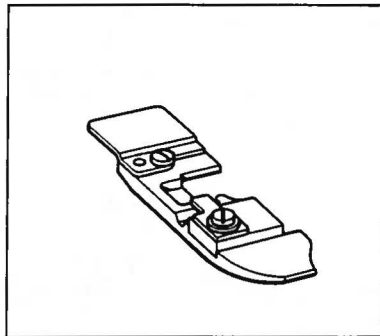
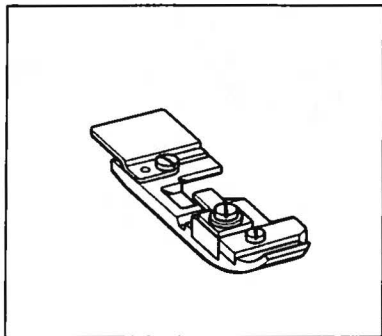
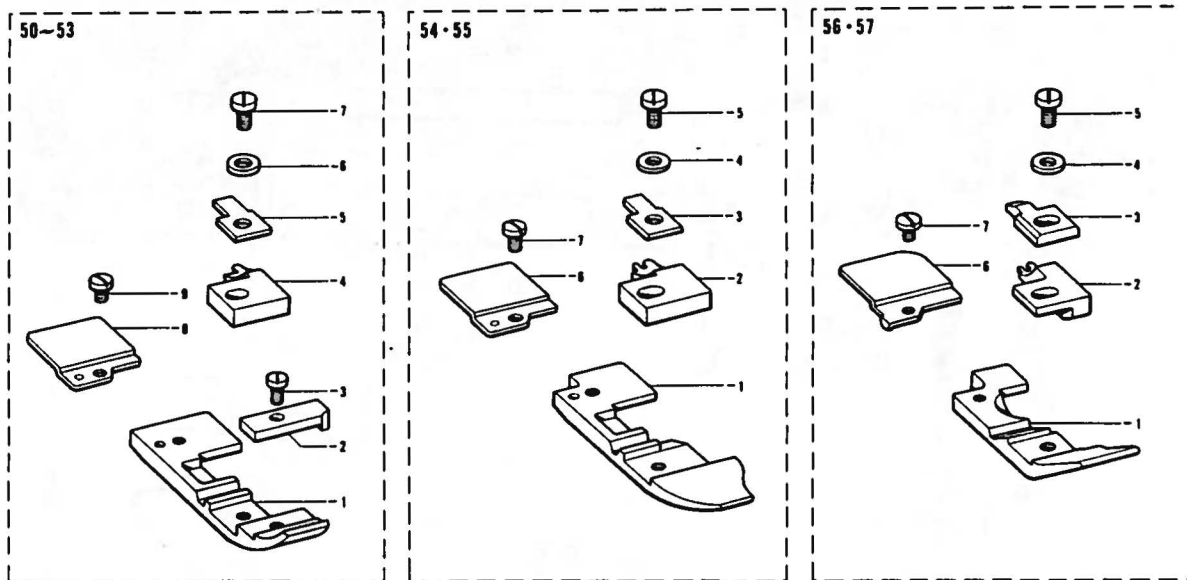
# G. Presser Foot Mechanism (1)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-1	Presser Bar Lifter	1	147759-0-01		G-22	Presser Arm Shaft	1	154959-0-01	
G-2	Presser Bar Lifter Pin	1	144084-0-01		G-23	Bushing (Left)	1	154958-0-00	
G-3	Stop Ring	1	048020-3-42		G-24-1	Set Collar	1		G-24 Collar Assembly 181969-0-03
G-4	Washer	1	144083-0-01		G-24-2	Screw 6.35	2	101706-0-01	
G-5	Presser Bar Lifter Shaft	1	154952-0-01		G-25	Presser Foot Lifter Link	1	154955-0-01	
G-6	Bushing	1	154954-0-01		G-26	Presser Foot Lifter Inside Lever	1	154956-0-01	
G-7	Spring	1	154953-0-01		G-27	Pin	1	110793-0-01	
G-8	Screw	1	154946-0-01		G-28	Bolt 6.35 x 16	1	149170-0-01	
G-9	Screw 3.18	1	146427-0-01		G-29	Spring	1	154957-0-01	
G-10	Spring Presser	1	154951-0-01		G-30	Bushing (Right)	1	140262-0-00	
G-11	Spring	1	154950-0-01		G-31	Adjuster Plate	1	146522-0-01	
G-12-1	Presser Bar	1		G-12 Presser Bar Assembly 154947-0-01	G-32	Nut	2	110161-0-06	
G-12-2	Pin	1			G-33	Screw 4.76	2	153483-0-01	
G-13	Trimming Knife	1	148259-0-01		G-34	Screw 4.37 x 7	2	009680-7-12	
G-14	Screw 3.18	2	141542-0-01		G-35	Spring	1	143325-0-01	
G-15	Presser Arm Stopper	1	144088-0-01		G-36	Presser Foot Lifter Lever	1	143323-1-03	
G-16	Screw 4.76	1	107231-0-02		G-37	Stud Screw 7.94	1	148372-0-01	
G-17	Main Presser Arm	1	154960-0-01		G-38	Sub-Presser Foot	1	154964-0-01	
G-18	Pin for Presser Arm Shaft	1	154962-0-01		G-39	Screw 3.57 x 8	1	154965-0-01	
G-19	Presser Arm Supporter	1	154961-0-01		G-40	Adjusting Screw	1	154966-0-01	
G-20	Screw 4.37	1	153675-0-01		G-41	Nut	1	021670-2-02	
G-21	Screw 4.37	2	154875-0-01						

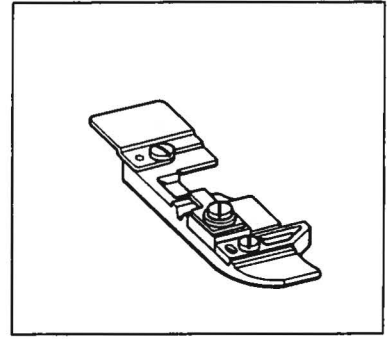
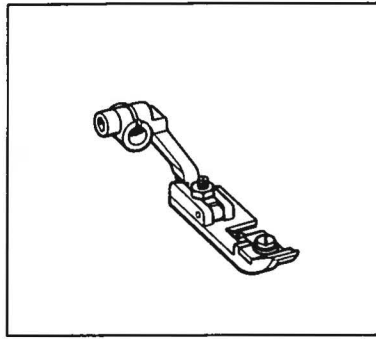
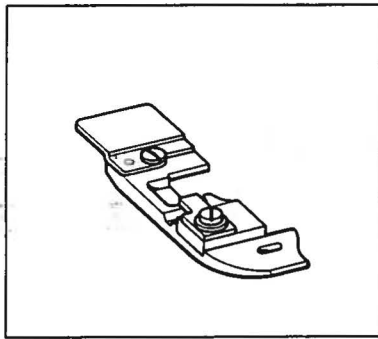
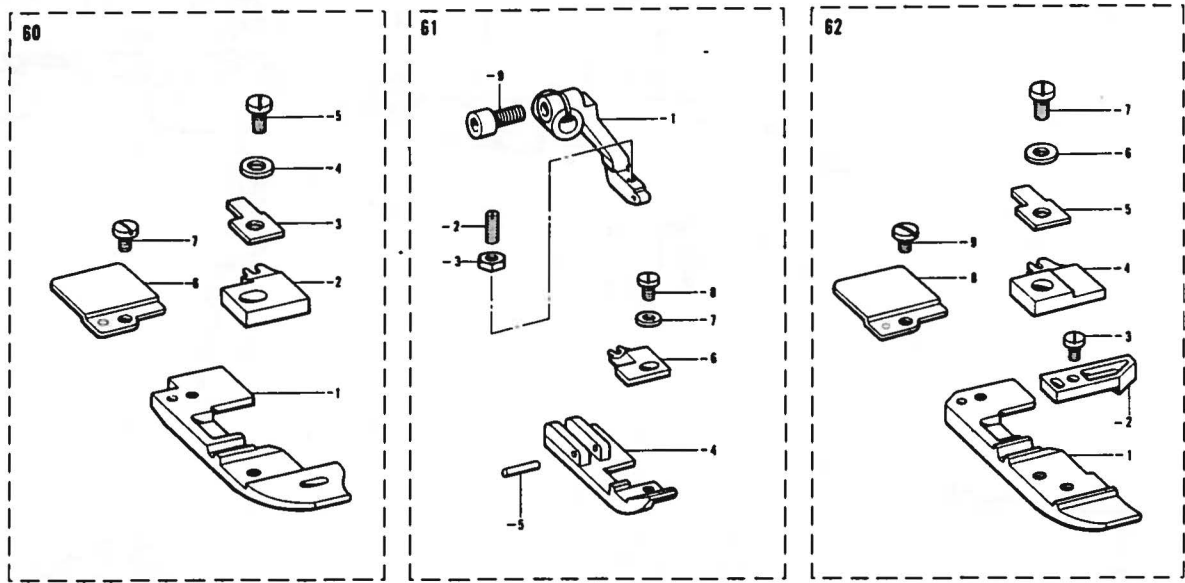


## G. Presser Foot Mechanism (2)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-50-1	Presser Foot	1		G-50 Presser Foot Assembly 154986-0-01	G-53-6	Washer	1	025030-1-32	G-53 Presser Foot Assembly 154987-0-01
G-50-2	Presser Foot (Front)	1	146888-0-01		G-53-7	Set Screw 3.18	1	100080-0-04	
G-50-3	Screw 2.38 x 3.5	1	009639-3-12		G-53-8	Presser Foot (Rear)	1	154969-0-01	
G-50-4	Presser Foot Stitch Tongue	1	146964-0-01		G-53-9	Screw 2.38	1	105288-0-01	
G-50-5	Presser Foot Hinge Spring	1	146887-0-01		G-54-1	Presser Foot	1		G-54 Presser Foot Assembly 154989-0-01 (Bulky)
G-50-6	Washer	1	025030-1-32		G-54-2	Presser Foot Stitch Tongue	1	146907-0-01	
G-50-7	Set Screw 3.18	1	100080-0-04		G-54-3	Presser Foot Hinge Spring	1	146887-0-01	
G-50-8	Presser Foot (Rear)	1	154969-0-01		G-54-4	Washer	1	025030-1-32	
G-50-9	Screw 2.38	1	105288-0-01		G-54-5	Set Screw 3.18	1	100080-0-04	
G-51-1	Presser Foot	1			G-54-6	Presser Foot (Rear)	1	154969-0-01	
G-51-2	Presser Foot (Front)	1	146888-0-01	G-54-7	Screw 2.38	1	105288-0-01		
G-51-3	Screw 2.38 x 3.5	1	009639-3-12	G-55-1	Presser Foot	1		G-55 Presser Foot Assembly 154985-0-01 (Bulky)	
G-51-4	Stitch Tongue	1	149525-0-01	G-55-2	Presser Foot Stitch Tongue	1	146905-0-01		
G-51-5	Presser Foot Hinge Spring	1	146887-0-01	G-55-3	Presser Foot Hinge Spring	1	146887-0-01		
G-51-6	Washer	1	025030-1-32	G-55-4	Washer	1	025030-1-32		
G-51-7	Set Screw 3.18	1	100080-0-04	G-55-5	Set Screw 3.18	1	100080-0-04		
G-51-8	Presser Foot (Rear)	1	154969-0-01	G-55-6	Presser Foot (Rear)	1	154969-0-01		
G-51-9	Screw 2.38	1	105288-0-01	G-55-7	Screw 2.38	1	105288-0-01		
G-52-1	Presser Foot	1		G-56-1	Presser Foot (U)	1		G-56 Presser Foot Assembly 154983-0-01 (Ruffling)	
G-52-2	Presser Foot (Front)	1	146888-0-01	G-56-2	Presser Foot Stitch Tongue (V)	1	144816-0-01		
G-52-3	Screw 2.38 x 3.5	1	009639-3-12	G-56-3	Presser Foot Plate	1	144091-0-01		
G-52-4	Presser Foot Stitch Tongue	1	146903-0-01	G-56-4	Washer	1	025030-1-32		
G-52-5	Presser Foot Hinge Spring	1	146887-0-01	G-56-5	Set Screw 3.18	1	100080-0-04		
G-52-6	Washer	1	025030-1-32	G-56-6	Presser Foot (Rear)	1	154972-0-01		
G-52-7	Set Screw 3.18	1	100080-0-04	G-56-7	Screw 2.38	1	105288-0-01		
G-52-8	Presser Foot (Rear)	1	154969-0-01	G-57-1	Presser Foot	1		G-57 Presser Foot Assembly 154988-0-01 (Ruffling W/piping)	
G-52-9	Screw 2.38	1	105288-0-01	G-57-2	Presser Foot Stitch Tongue (V)	1	144816-0-01		
G-53-1	Presser Foot	1		G-57-3	Presser Foot Plate	1	144091-0-01		
G-53-2	Presser Foot (Front)	1	146888-0-01	G-57-4	Washer	1	025030-1-32		
G-53-3	Screw 2.38 x 3.5	1	009639-3-12	G-57-5	Set Screw 3.18	1	100080-0-04		
G-53-4	Presser Foot Stitch Tongue	1	146966-0-01	G-57-6	Presser Foot (Rear)	1	154972-0-01		
G-53-5	Presser Foot Hinge Spring	1	146887-0-01	G-57-7	Screw 2.38	1	105288-0-01		

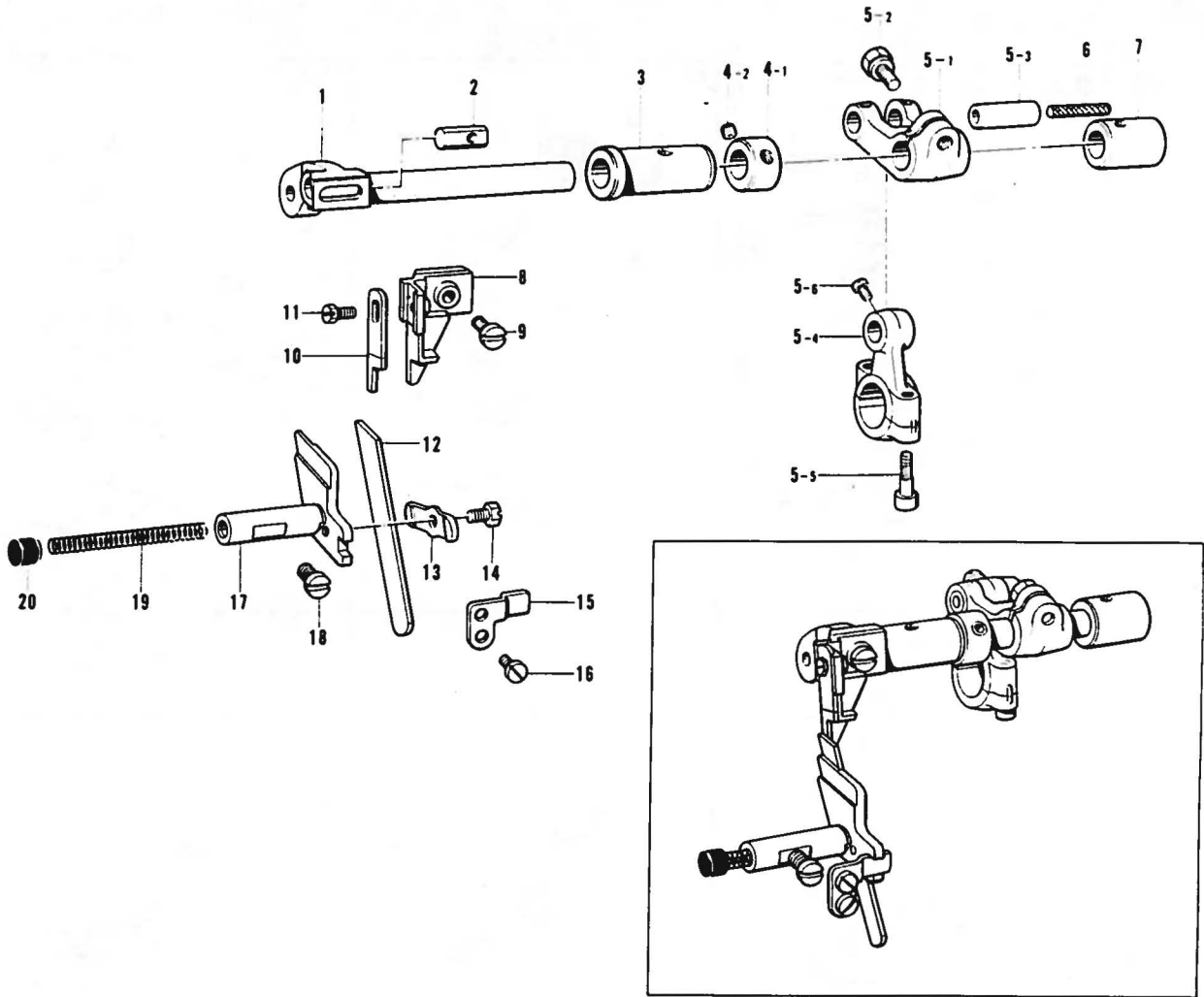
## G. Presser Foot Mechanism (3)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	
G-60-1	Presser Foot	1		G-60 Presser Foot Assembly 154984-0-01 (Taping)	G-61-7	Washer	1	025030-1-32	G-61 Presser Foot Assembly 154990-0-01 (Piping)	
G-60-2	Presser Foot Stitch Tongue	1	146907-0-01		G-61-8	Screw 3.18 x 4	1	009660-4-12		
G-60-3	Presser Foot Hinge Spring	1	146887-0-01		G-61-9	Bolt 3.57 x 8	1	154965-0-01		
G-60-4	Washer	1	025030-1-32		G-62-1	Presser Foot	1			G-62 Presser Foot Assembly 154998-0-01 (Bulky)
G-60-5	Set Screw 3.18	1	100080-0-04		G-62-2	Presser Foot Front	1	150872-0-01		
G-60-6	Presser Foot (Rear)	1	154969-0-01		G-62-3	Screw 2.38 x 3.5	1	009639-3-12		
G-60-7	Screw 2.38	1	105288-0-01	G-62-4	Stitch Tongue	1	150871-0-01			
G-61-1	Sub Presser Arm	1		G-62-5	Presser Foot Hinge Spring	1	146887-0-01			
G-61-2	Screw 3.18	1	103978-0-02	G-62-6	Washer	1	025030-1-32			
G-61-3	Nut 3.18	1	021660-1-02	G-62-7	Set Screw 3.18	1	100080-0-04			
G-61-4	Presser Foot	1		G-62-8	Presser Foot (Rear)	1	154969-0-01			
G-61-5	Pin	1	149183-0-01	G-62-9	Screw 2.38	1	405288-0-01			
G-61-6	Stitch Tongue	1	150739-0-01							

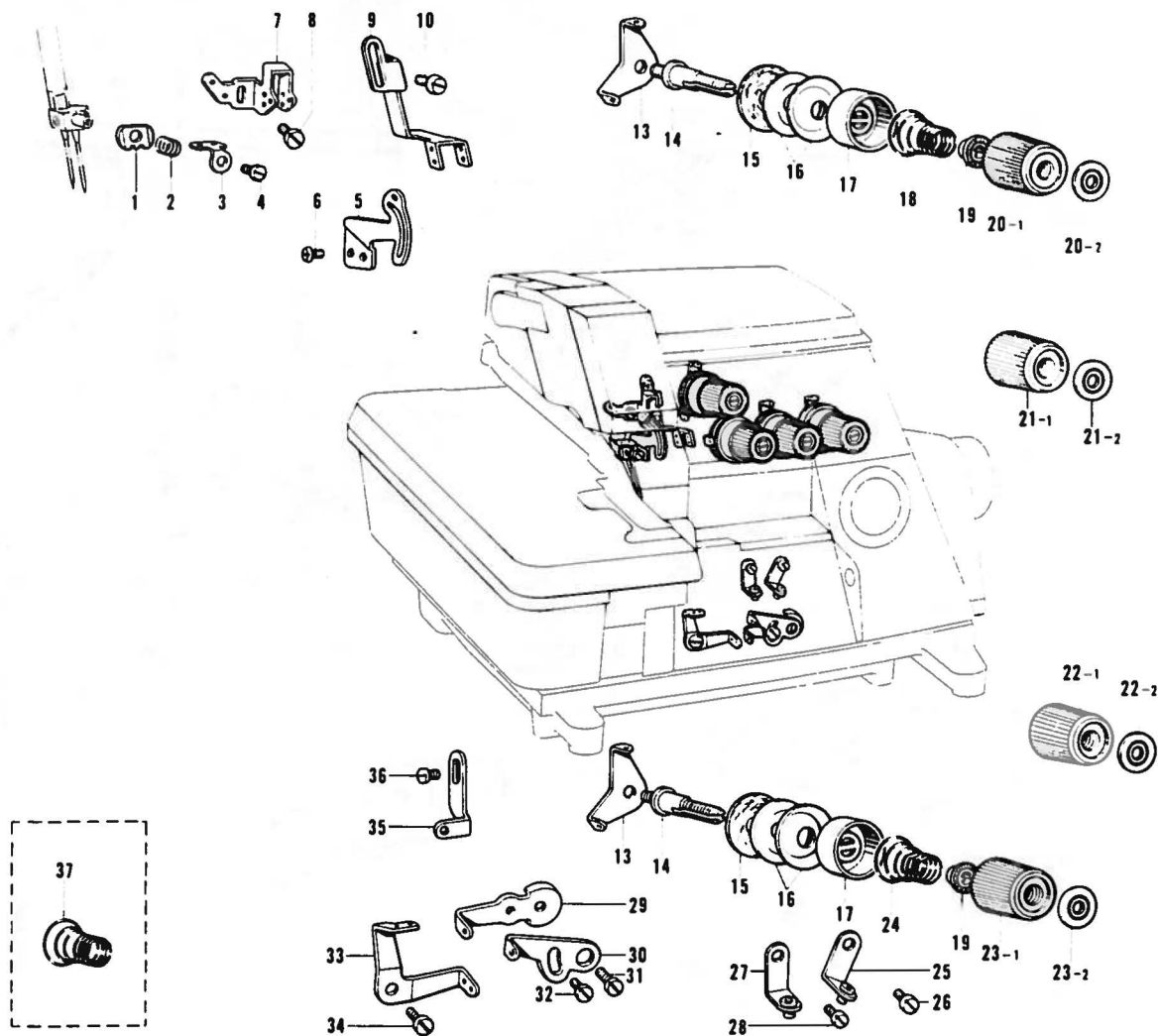


# H. Knives Mechanism



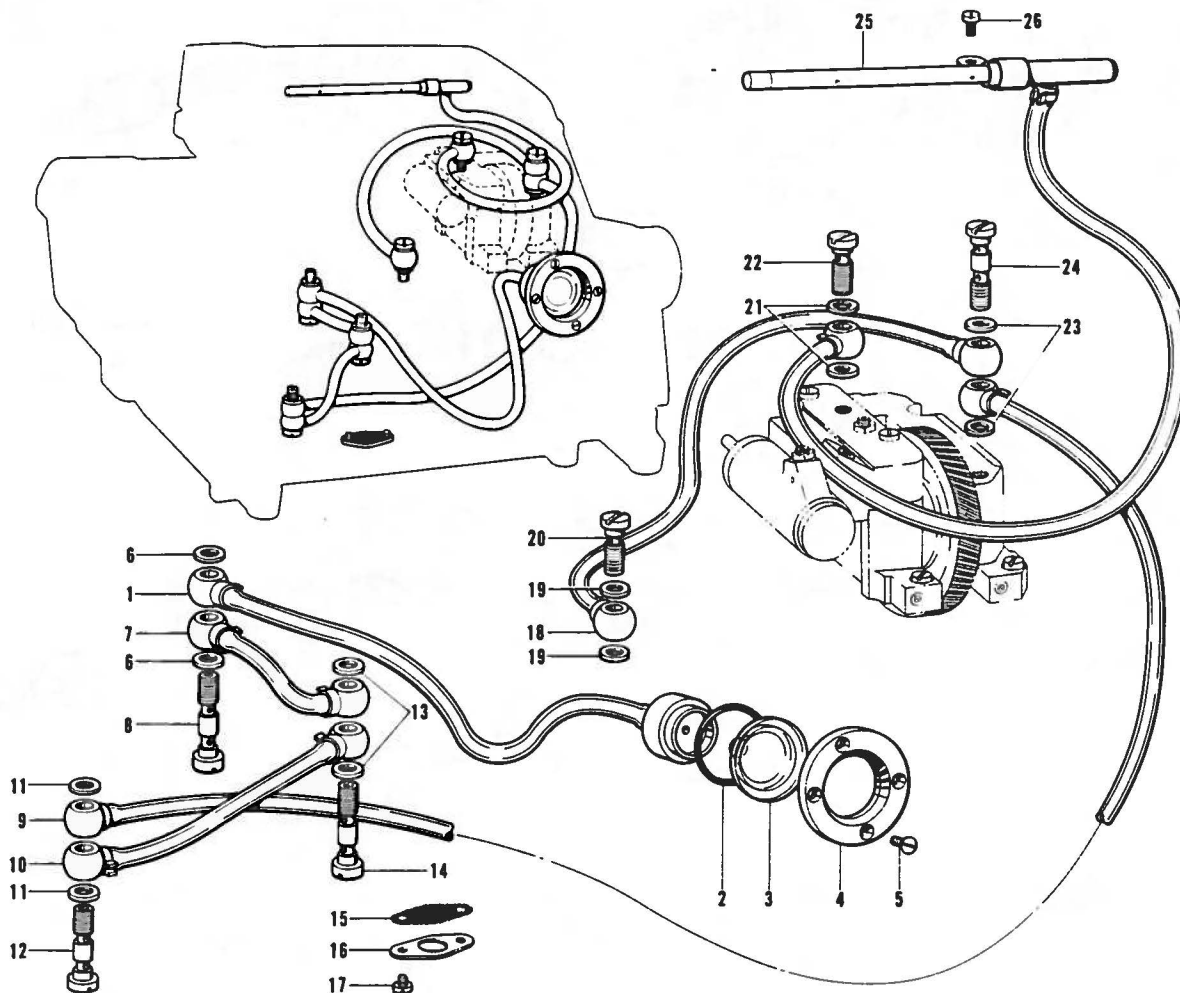
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H- 1	Upper Knife Driving	1	155185-0-01		H- 8	Upper Knife Holder	1	155187-0-01	
H- 2	Nut	1	148281-0-01		H- 9	Screw 4.37	1	107407-0-03	
H- 3	Bushing (Left)	1	155186-0-00		H-10	Upper Knife	1	144074-0-00	
H- 4-1	Set Collar	1			H-11	Bolt 3.57	1	144075-0-01	
H- 4-2	Screw 5.95	2	152718-0-01	H-4 Collar Assembly 155863-0-01	H-12	Lower Knife	1	155193-0-01	
H- 5-1	Upper Knife Driving Lever	1			H-13	Lower Knife Presser Plate	1	155194-0-01	
H- 5-2	Bolt 6.35 x 16	1	149170-0-01	*H-5 Upper Knife Driving Rod Assembly 155181-0-01	H-14	Bolt 4.37	1	117516-0-01	
H- 5-3	Pin	1			H-15	Lower Knife Holder Guide	1	155195-0-01	
H- 5-4	Upper Knife Driving Rod	1			H-16	Screw 3.57 x 6	2	009670-6-12	
H- 5-5	Screw 4.37 x 14	2	148425-0-01		H-17	Lower Knife Holder	1	155191-0-01	
H- 5-6	Screw 4.37	1	100366-0-01		H-18	Screw 6.35	1	102627-0-01	
H- 6	Wick 8 x 8 (44)	1	140317-0-00		H-19	Spring	1	146584-0-01	
H- 7	Bushing (Right)	1	144117-0-00		H-20	Oil Cap	1	154923-0-01	

# J. Threading



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J-1	Needle Thread Guard (A)	1	155308-0-01		J-22-1	Thread Tension Adjusting Nut	1	149566-0-02	J-22 Thread Tension Adjusting Nut Assembly 155696-0-02
J-2	Needle Thread Guard Spring	1	155310-0-01		J-22-2	Tension Indicating Plate	1	155697-0-02	
J-3	Needle Thread Guide (C)	1	155307-0-01		J-23-1	Thread Tension Adjusting Nut	1	149566-0-02	J-23 Thread Tension Adjusting Nut Assembly 155696-0-04
J-4	Screw 2.38	1	105288-0-01		J-23-2	Tension Indicating Plate	1	155697-0-04	
J-5	Needle Thread Take-up	1	155306-0-01		J-24	Spring	2	144110-0-01	
J-6	Screw 3.57 x 6	2	001670-6-12		J-25	Under Looper Thread Guide	2	146926-0-02	
J-7	Needle Thread Guide (A)	1	155305-0-01		J-26	Screw 3.57 x 6	1	009670-6-12	
J-8	Screw 3.57 x 6	1	001670-6-12		J-27	Thread Guide	1	146926-0-03	
J-9	Needle Thread Guide (B)	1	155304-0-01		J-28	Screw 3.57 x 6	1	009670-6-12	
J-10	Screw 3.57 x 6	2	009670-6-12		J-29	Under Looper Thread Take-up (R)	1	155311-0-01	
J-13	Needle Thread Guide Plate	4	110813-0-01		J-30	Over Looper Thread Take-up (R)	1	155312-0-01	
J-14	Looper Thread Tension Control Stud	4	110820-0-01		J-31	Screw 3.57 x 6	1	009670-6-12	
J-15	Felt	4	110832-0-01		J-32	Screw 3.57 x 4	1	009670-4-12	
J-16	Tension Disc	8	145446-0-01		J-33	Looper Thread Take-up (L)	1	146654-0-01	
J-17	Tension Disc Washer	4	144103-0-03		J-34	Screw 3.57 x 6	1	009670-6-12	
J-18	Spring	2	144104-0-01		J-35	Thread Guide	1	155313-0-01	
J-19	Tension Spring Washer	4	144105-0-00		J-36	Screw 3.57 x 6	1	009670-6-12	
J-20-1	Thread Tension Adjusting Nut	1	149566-0-02	J-20 Thread Tension Adjusting Nut Assembly 155696-0-03	J-37	Spring	2	148851-0-01	
J-20-2	Tension Indicating Plate	1	155697-0-03						
J-21-1	Thread Tension Adjusting Nut	1	149566-0-02	J-21 Thread Tension Adjusting Nut Assembly 155696-0-01					
J-21-2	Tension Indicating Plate	1	155697-0-01						

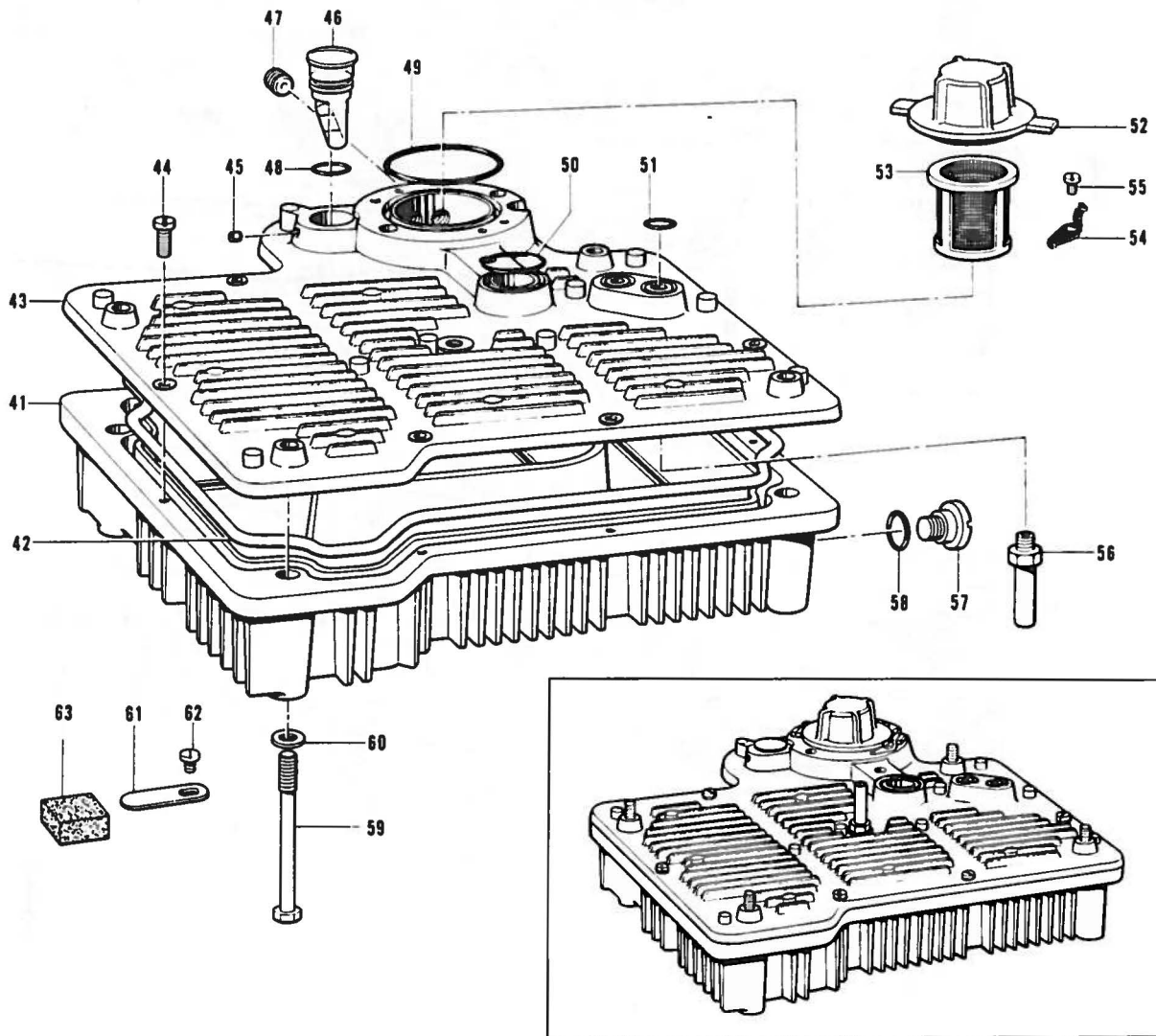
# K. Lubrication (1)



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

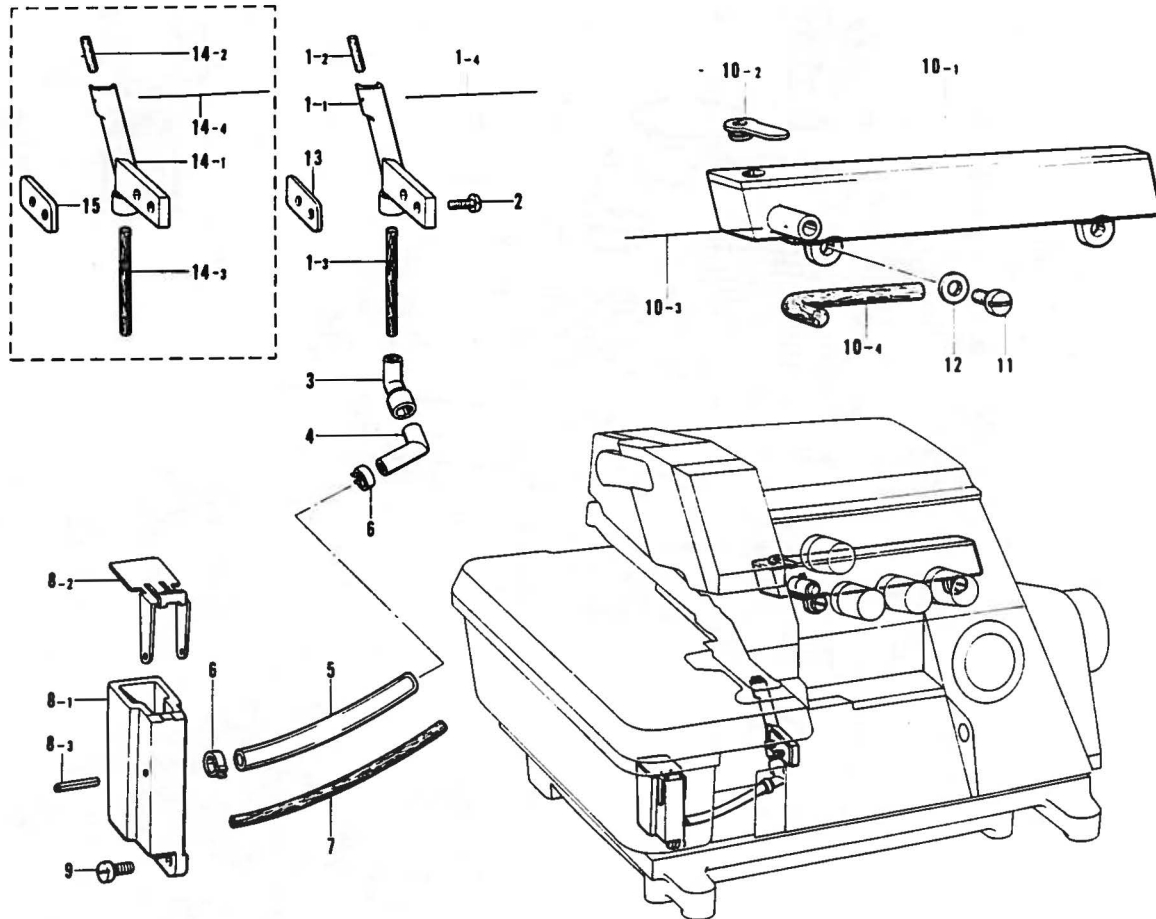


## K. Lubrication (2)



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

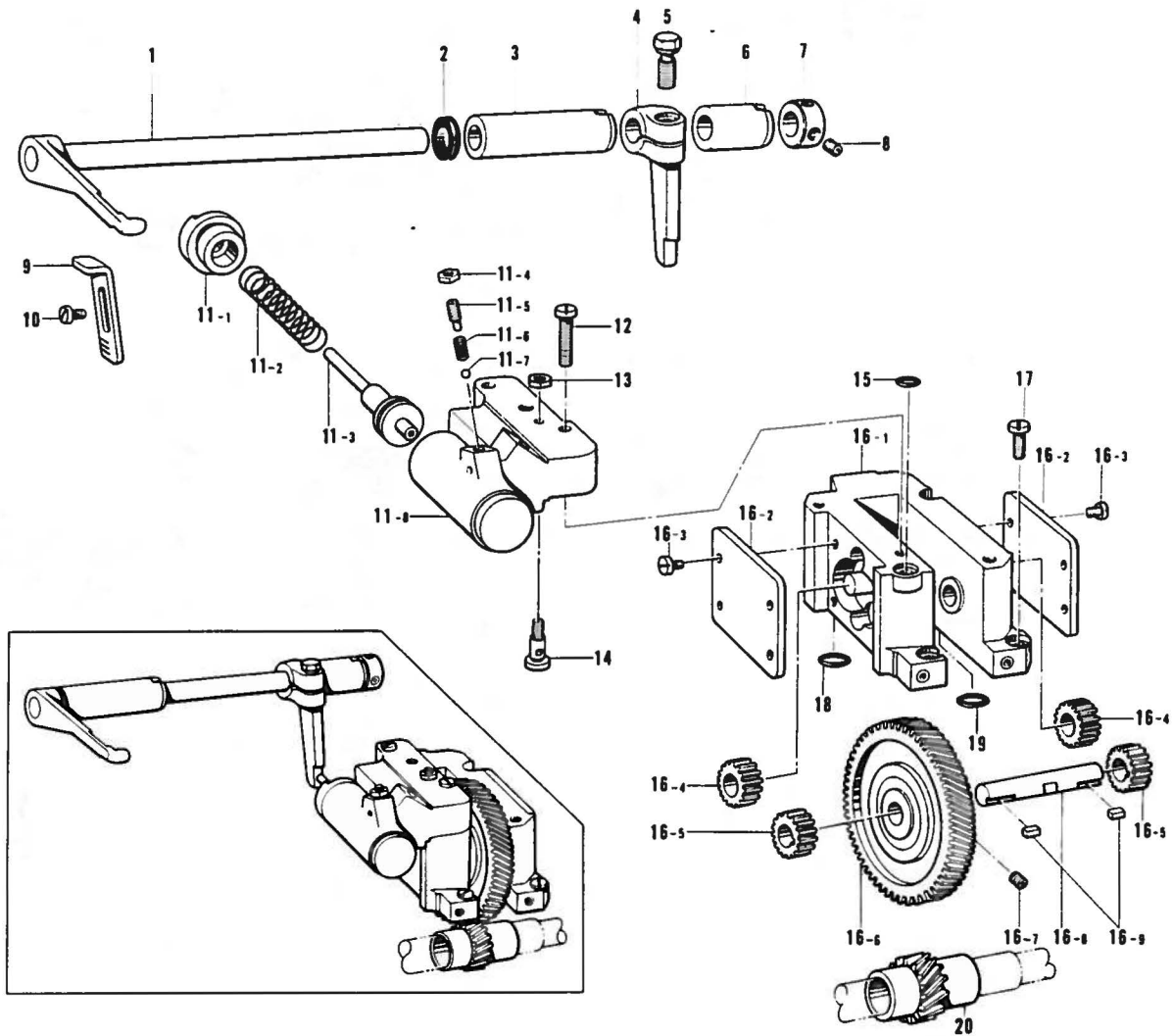
# L. Needle Cooler



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L- 1-1	Felt Holder	1	154931-0-00	L-1 Felt Holder Assembly 154930-0-01	L- 9	Screw 3.57 x 10	2	009671-0-12	L-10 Needle Thread Cooler Assembly 154924-0-01
L- 1-2	Felt (S)	1	146740-0-00		L-10-1	Needle Thread Cooler Tank	1		
L- 1-3	Felt	1	154932-0-00		L-10-2	Needle Thread Cooler Tank Cover	1	154928-0-00	
L- 1-4	Steel Wire	1	147738-0-00		L-10-3	Steel Wire	1	147738-0-00	
L- 2	Screw 3.57	2	105216-0-01		L-10-4	Felt	1	154929-0-00	
L- 3	Pipe Joint (A)	1	154939-0-00	L-11	Screw 4.37 x 7	2	009680-7-12		
L- 4	Pipe Joint (B)	1	154940-0-00	L-12	Washer	2	110735-0-02		
L- 5	Vinyl Tube	1	154942-0-00	L-13	Spacer	1	154937-0-01		
L- 6	Stop Ring	2	147942-0-01	L-14-1	Felt Holder	1	154934-0-00	L-14 Felt Holder Assembly 154933-0-01	
L- 7	Felt	1	154941-0-00	L-14-2	Felt (S)	1	146740-0-00		
L- 8-1	Needle Cooler Tank	1		L-14-3	Felt	1	154932-0-00		
L- 8-2	Needle Cooler Tank Cover	1	154945-0-01	L-14-4	Steel Wire	1	147738-0-00		
L- 8-3	Pin	1	047201-6-40	L-15	Spacer	1	154938-0-01		
				L-8 Needle Cooler Assembly 154943-0-01					

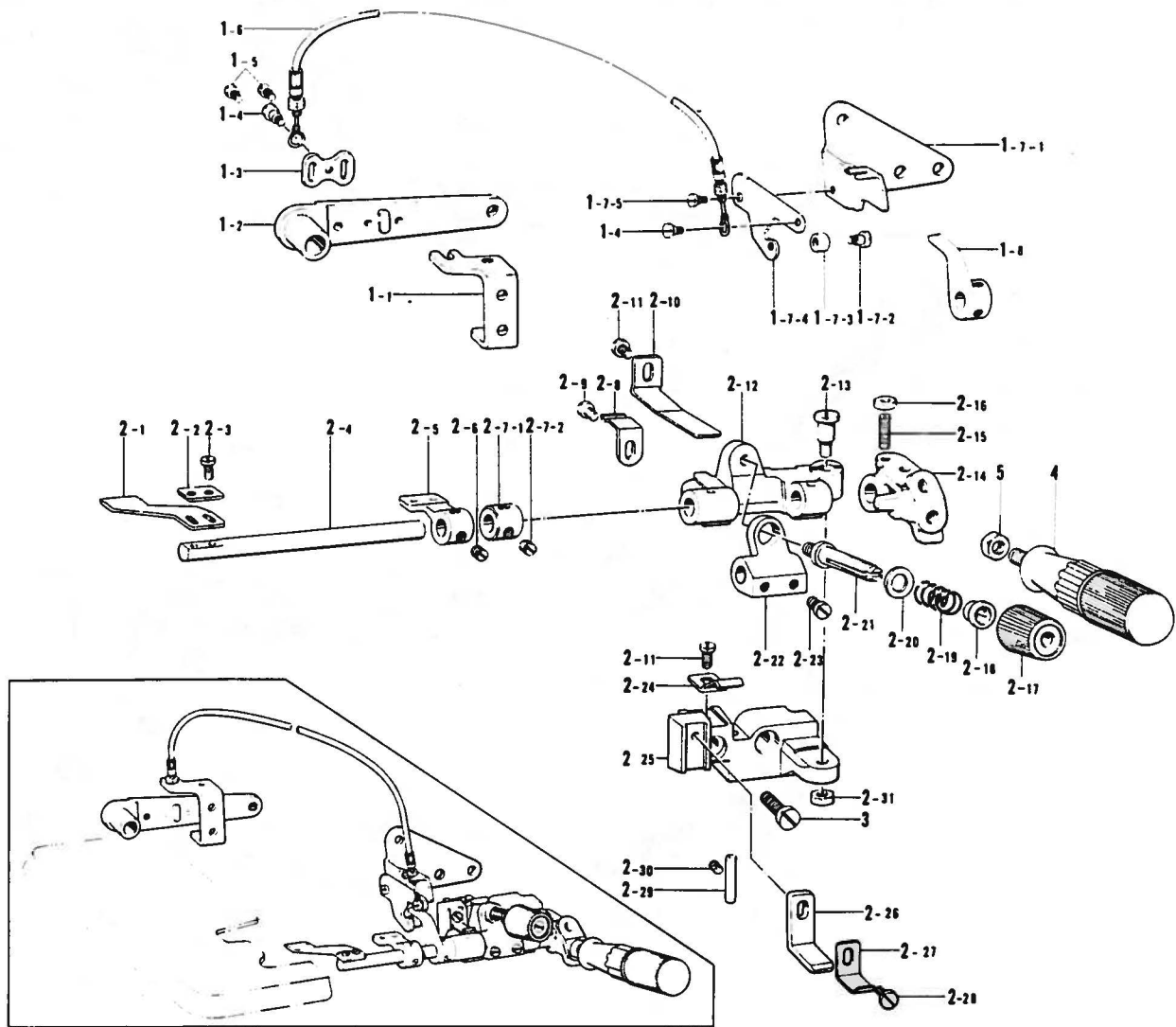


# M. Auto Presser Mechanism



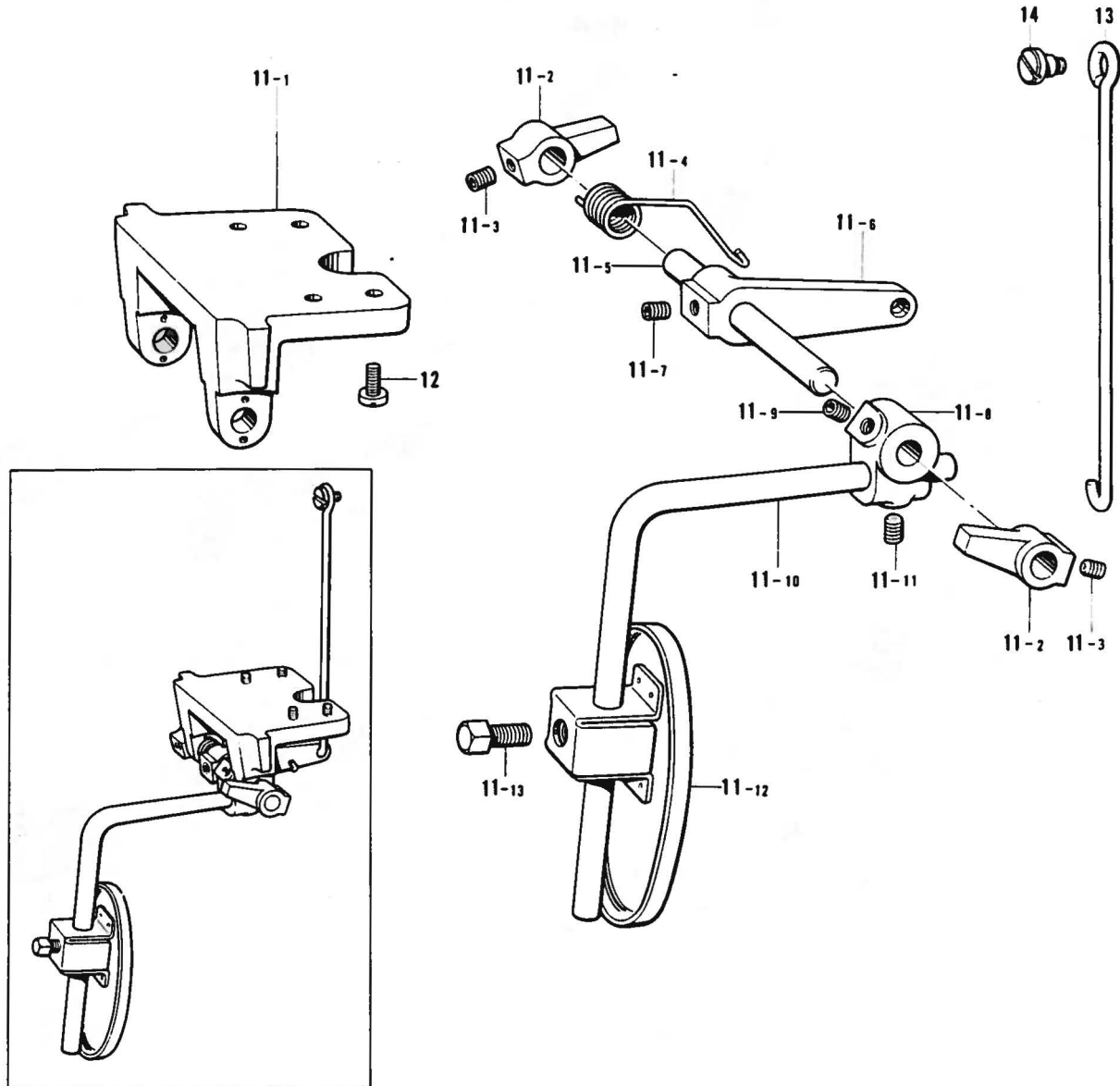
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M-1	Auto Presser Arm	1	155223-0-01		M-12	Screw 4.37 x 18	2	009681-8-12	
M-2	Seal	1	155539-0-00		M-13	Nut	1	021670-2-02	
M-3	Bushing (L)	1	155219-0-00		M-14	Oil Adjustor	1	156459-0-01	
M-4	Auto Presser Lever	1	155222-0-01		M-15	"O" Ring	1	081006-0-70	
M-5	Bolt 6.35 x 16	1	149170-0-01		M-16-1	Pump Case	1		
M-6	Bushing (R)	1	155220-0-00		M-16-2	Pump Cover	2	156430-0-01	
M-7	Set Collar	1	110197-0-01		M-16-3	Screw 3.57 x 6	8	009670-6-12	
M-8	Screw 4.37	2	014680-4-22		M-16-4	Pump Gear F	2	156425-0-00	
M-9	Auto Presser Arm Stopper	1	155224-0-01		M-16-5	Pump Gear D	2	156426-0-00	
M-10	Screw 3.57 x 6	2	001670-6-12		M-16-6	Gear L	1	156428-0-00	
M-11-1	Auto Presser Cylinder Cover B	1	156438-0-00		M-16-7	Screw 4.37	2	014680-6-22	
M-11-2	Spring	1	155218-0-01		M-16-8	Gear L Shaft	1	156427-0-01	
M-11-3	Piston	1	155217-0-01		M-16-9	Key	2	156429-0-01	
M-11-4	Nut	1	021670-2-02	M-11 Auto Presser Cylinder Assembly 156436-0-01	M-17	Screw 4.37 x 12	4	009681-2-12	M-16 Pump Assembly 156420-0-01
M-11-5	Adjusting Screw	1	156183-0-01		M-18	"O" Ring	2	081008-0-70	
M-11-6	Spring	1	120833-0-01		M-19	"O" Ring	2	081008-0-70	
M-11-7	Steal Ball	1	071023-8-50		M-20	Gear S	1	156432-0-01	
M-11-8	Auto Presser Cylinder Body	1							

# Q. 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.
Q-1-1	Lever Adjuster Plate	1	147454-0-01	Q-1 Ruffler Interlocking Parts Assembly 155547-0-02	Q-2-11	Screw 4.37 x 6	2	009680-6-12	Q-2 Ruffling Attachment Assembly 146587-1-02
Q-1-2	Presser Foot Lifter Lever	1	148369-1-01		Q-2-12	Bracket for Ruffling Blade	1	146588-0-01	
Q-1-3	Wire Plate	1	147672-0-01		Q-2-13	Stud Screw 5.95	1	147933-0-01	
Q-1-4	Screw	2	141514-0-01		Q-2-14	Handle Fixing Plate	1	145810-0-01	
Q-1-5	Screw 3.57 x 6	2	009670-6-12		Q-2-15	Screw 4.37	1	110230-0-01	
Q-1-6	Flexible Wire Assembly	1	148391-0-01		Q-2-16	Nut 4.37	1	105234-0-03	
Q-1-7-1	Presser Foot Lifter Lever Support	1	155330-0-01		Q-2-17	Thread Tension Adjusting Nut	1	149566-0-02	
Q-1-7-2	Stud Screw 3.18	1	112301-0-01		Q-2-18	Tension Spring Washer	1	144105-0-00	
Q-1-7-3	Roller	1	148390-0-01		Q-2-19	Spring	1	144788-0-01	
Q-1-7-4	Ruffling Plate Lifter Lever	1	148388-0-01		Q-2-20	Washer	1	025770-2-32	
Q-1-7-5	Screw	1	141514-0-01	Q-2-21	Looper Thread Tension Control Stud	1	110820-0-01		
Q-1-8	Ruffling Plate Lifter	1	148387-0-01	Q-2-22	Spring Base	1	146590-0-01		
Q-2-1	Ruffling Blade	1	144783-0-01	Q-2-23	Screw 5.95	2	105163-0-01		
Q-2-2	Washer	1	144784-0-01	Q-2-24	Spring Plate	1	145808-0-01		
Q-2-3	Screw 3.18 x 7	2	009660-7-12	Q-2-25	Ruffling Base	1			
Q-2-4	Ruffling Blade Base Shaft	1	145803-0-01	Q-2-26	Ruffling Blade Guide Plate	1	154795-0-01		
Q-2-5	Wrapper Base	1	146589-0-01	Q-2-27	Ruffling Blade Guide	1	145807-0-01		
Q-2-6	Screw 6.35	2	101706-0-01	Q-2-28	Screw 4.37 x 8	1	009680-8-12		
Q-2-7-1	Set Collar	1		Q-2-29	Thread Guide Pipe	1	146592-0-01		
Q-2-7-2	Screw 6.35	2	101706-0-01	Q-2-30	Screw 3.57	1	013679-4-12		
Q-2-8	Spring	1	144764-0-01	Q-2-31	Nut	1	150553-0-02		
Q-2-9	Screw 3.57 x 5	1	001670-5-12	Q-3	Screw 6.35 x 18	2	009781-8-12		
Q-2-10	Spring Plate	1	145811-0-01	Q-4	Handle	1	145809-0-01		
				Q-5	Nut 6.35	1	150556-0-02		

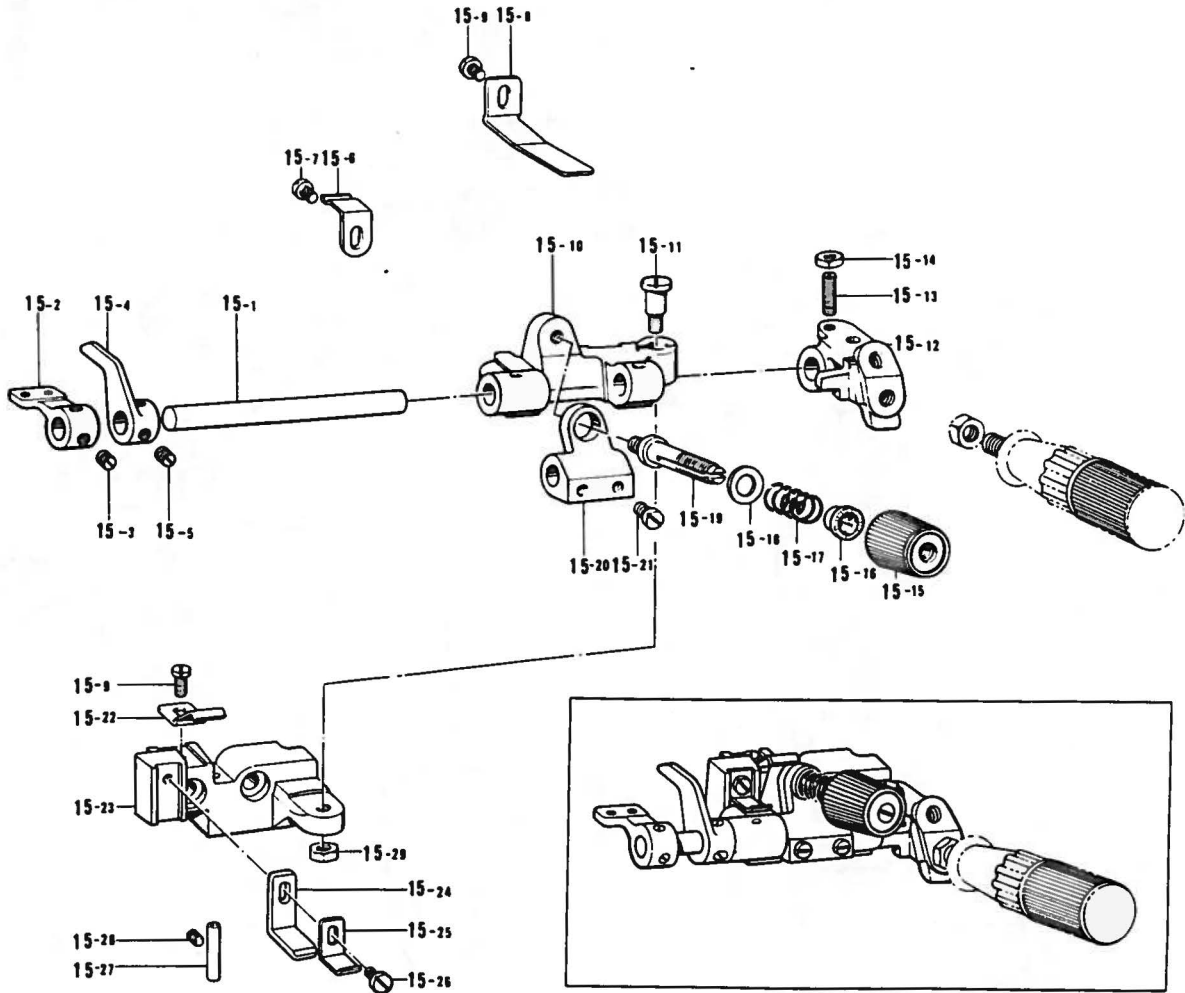
# Q. Differential Adjuster Assembly (2)



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



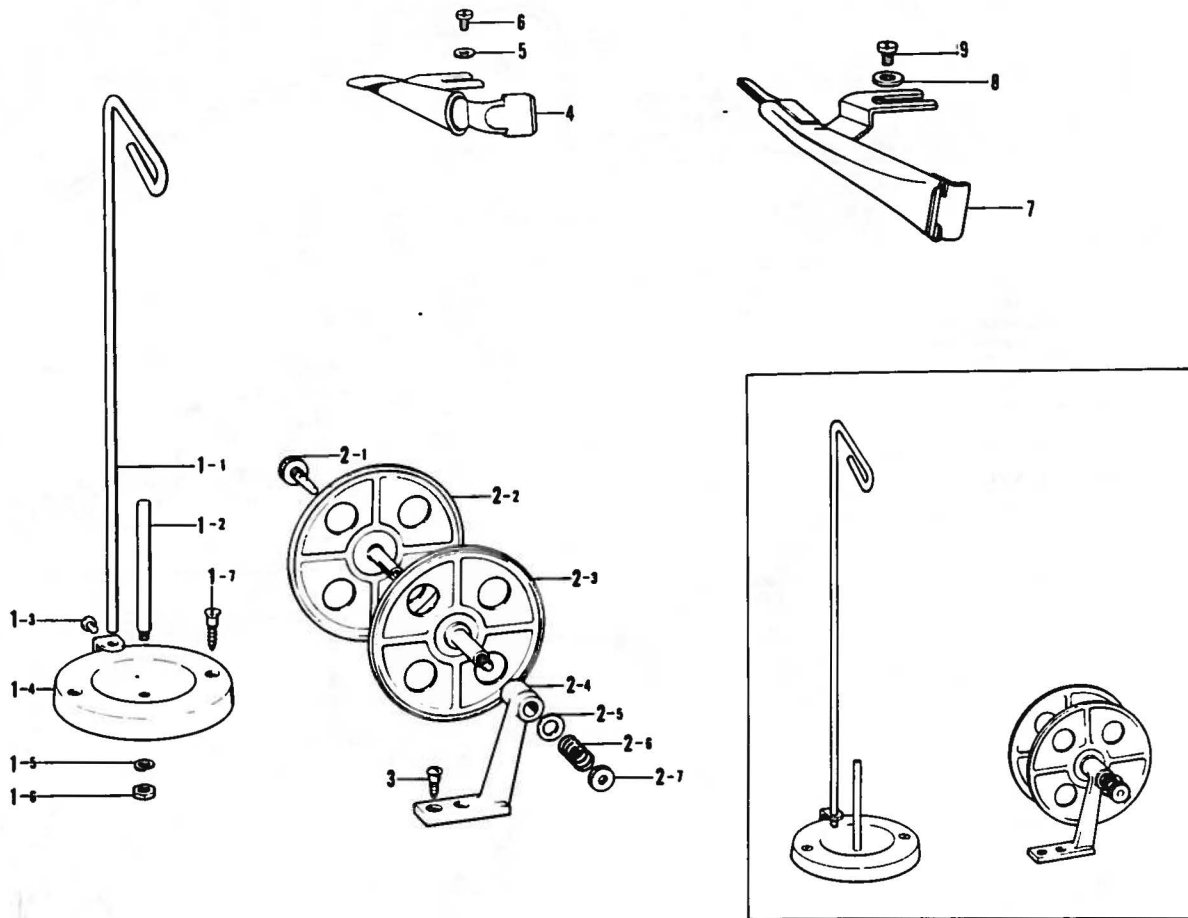
# Q. Piping Wrapper Assembly (3)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Q-15- 1	Ruffling Blade Base Shaft	1	149203-0-01	Q-15 Piping Wrapper Base Assembly 149202-0-01	Q-15-16	Tension Spring Washer	1	144105-0-00	Q-15 Piping Wrapper Base Assembly 149202-0-01
Q-15- 2	Wrapper Base	1	146589-0-01		Q-15-17	Spring	1	144788-0-01	
Q-15- 3	Screw	2	101706-0-01		Q-15-18	Washer	1	025770-2-32	
Q-15- 4	Ruffling Plate Lifter	1	148387-0-01		Q-15-19	Looper Thread Tension Control Stud	1	110820-0-01	
Q-15- 5	Screw	2	101706-0-01		Q-15-20	Spring Base	1	146590-0-01	
Q-15- 6	Spring	1	144764-0-01		Q-15-21	Screw	2	105163-0-01	
Q-15- 7	Screw	1	001670-5-12		Q-15-22	Spring Plate	1	145808-0-01	
Q-15- 8	Spring Plate	1	145811-0-01		Q-15-23	Ruffler Base	1		
Q-15- 9	Screw	2	009680-6-12		Q-15-24	Ruffling Blade Guide D	1	154795-0-01	
Q-15-10	Bracket for Ruffling Blade	1	146588-0-01		Q-15-25	Ruffling Blade Guide	1	145807-0-01	
Q-15-11	Screw	1	147933-0-01		Q-15-26	Screw	2	009680-8-12	
Q-15-12	Handle Fixing Plate	1	145810-0-01		Q-15-27	Thread Guide Pipe	1	146592-0-01	
Q-15-13	Screw	1	110230-0-01		Q-15-28	Screw	1	013679-4-12	
Q-15-14	Nut	1	105234-0-03		Q-15-29	Nut	1	150553-0-02	
Q-15-15	Tension Nut	1	149566-0-02						

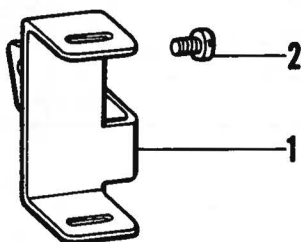


## R. Wrapper and Piping Parts



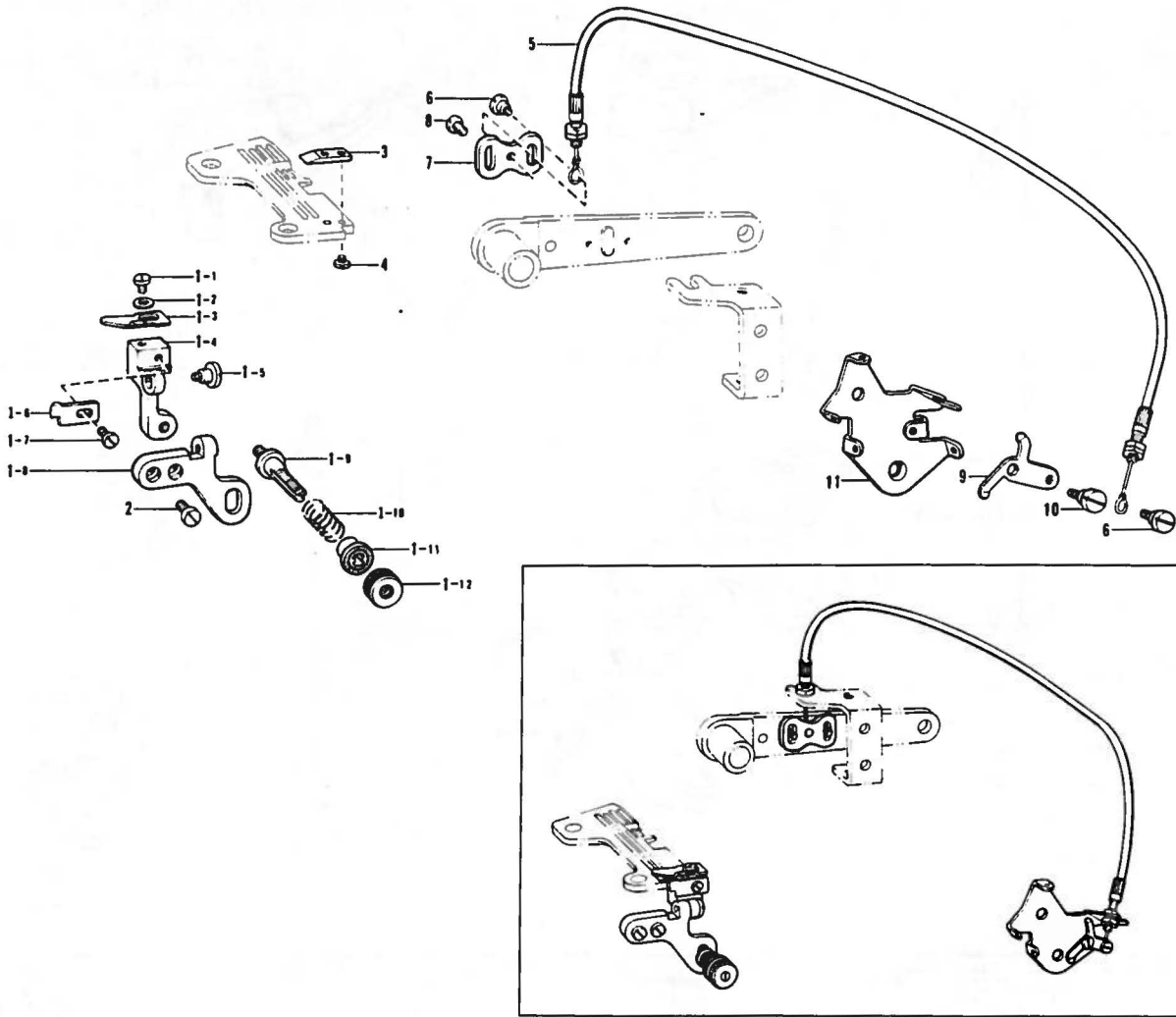
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
R-1-1	Thread Guide Stud	1		R-1 Cotton Stand Assembly 181031-0-01	R-2-5	Washer	1	108494-0-01	R-2 Tape Winder Assembly 143767-0-02
R-1-2	Spool Stud	1	100444-0-02		R-2-6	Spring	1	108495-0-01	
R-1-3	Screw 3.18	1	100080-0-02		R-2-7	Tension Control Nut	1	100136-0-01	
R-1-4	Spool Disc	1			R-3	Screw 4.5 x 20	2	101118-0-01	
R-1-5	Spring Washer	1	028050-2-42		R-4	Wrapper Assembly	1	147440-0-00	
R-1-6	Nut	1	110161-0-03		R-5	Washer	2	110735-0-02	
R-1-7	Screw 4.5 x 32	2	100447-0-01		R-6	Screw 4.37 x 6	2	009680-6-12	
R-2-1	Screw	1	143980-0-01	R-7	Wrapper Assembly	1	149197-0-00		
R-2-2	Tape Winder Wheel (L)	1		R-8	Washer	2	110735-0-02		
R-2-3	Tape Winder Wheel (R)	1		R-9	Screw 4.37 x 6	2	009680-6-12		
R-2-4	Tape Winder Bracket	1							

## S. Taping



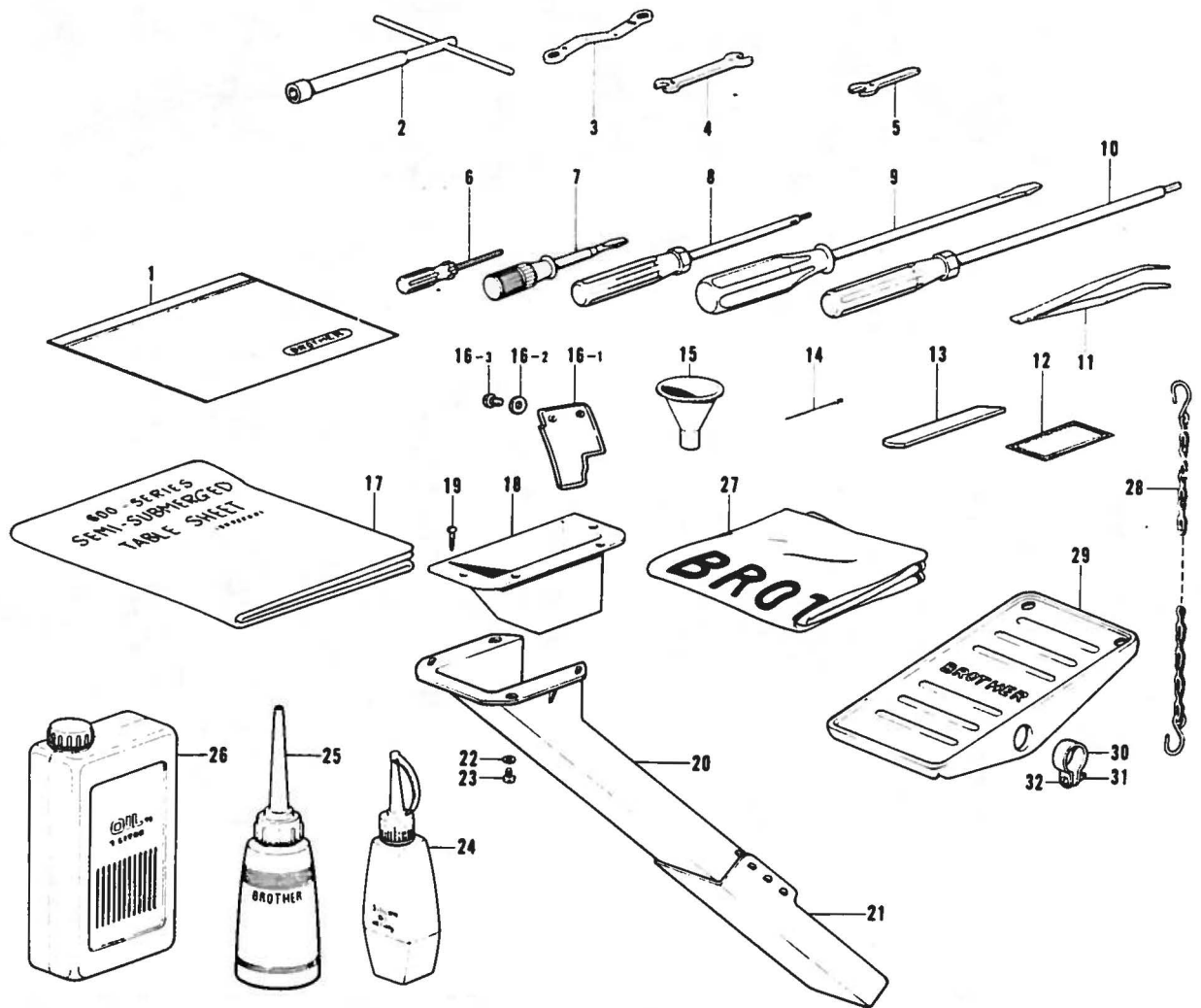
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
S-1	Tape Guide	1	155327-0-01	
S-2	Screw 3.18 x 4.5	2	009669-4-12	

# T. Backtacking



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T- 1- 1	Screw 3.18 x 4	1	009660-4-12	T-1 Back-tack Presser Assembly 147473-0-01	T- 2	Screw 3.57 x 6	2	009670-6-12	
T- 1- 2	Washer	1	025030-1-32		T- 3	Back-tack Guide	1	147484-0-01	
T- 1- 3	Back-tack Blade Presser Plate	1	147477-0-01		T- 4	Screw 3.18	2	141544-0-01	
T- 1- 4	Back-tack Blade Holder	1			T- 5	Flexible Wire Assembly	1	147480-0-01	
T- 1- 5	Screw 4.37	1	147476-0-01		T- 6	Screw	2	141514-0-01	
T- 1- 6	Back-tack Knife	1	147478-0-01		T- 7	Wire Plate	1	147672-0-01	
T- 1- 7	Screw 3.18 x 4	1	009660-4-12		T- 8	Screw 3.57 x 6	2	009670-6-12	
T- 1- 8	Back-tack Blade Holder Supporter	1			T- 9	Thread Release Lever	1	148371-0-01	
T- 1- 9	Thread Tension Control Stud	1	147148-0-01		T-10	Screw	1	141514-0-01	
T- 1-10	Spring	1	147479-0-01		T-11	Thread Guide Supporter	1	156092-0-01	
T- 1-11	Tension Spring Washer	1	144105-0-00						
T- 1-12	Upper Thread Tension Adjusting Nut	1	151012-0-01						

## 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.

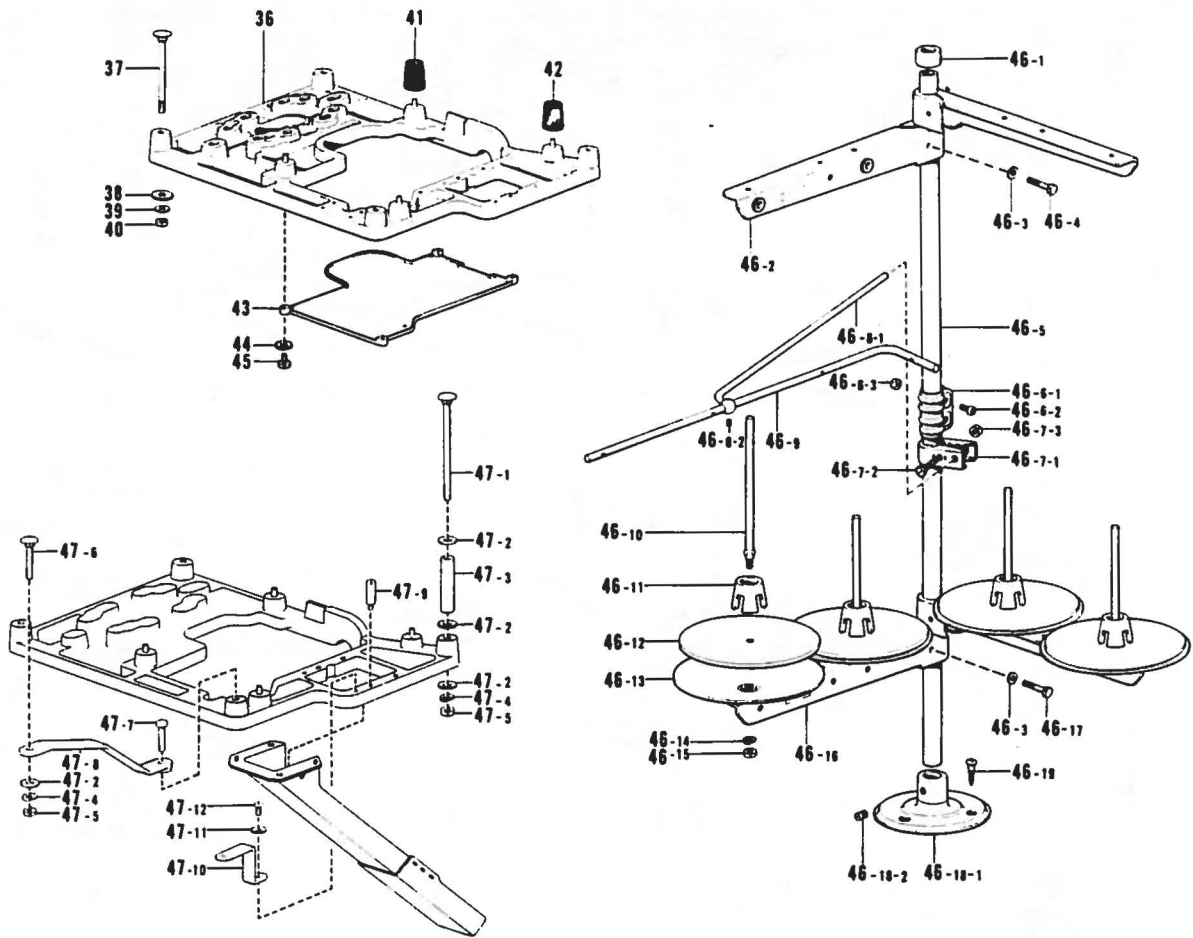
\* Les détails des accessoires inclus sont sujets à des changements.

\* Änderungen in der Aufstellung der mitgelieferten Zubehöre 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	Head Plate	1	155321-0-00		Z-46-10	Spool Shaft (B)	4	150179-0-01	Z-46 Cotton Stand Assembly 150161-0-01	
Z-37	Bolt 8 x 85	4	210973-0-01		Z-46-11	Spool Cushion	4	126863-0-00		
Z-38	Washer 8	4	025080-2-36		Z-46-12	Spool Mat	4	150182-0-00		
Z-39	Spring Washer 2-8	4	028080-0-42		Z-46-13	Spool Stand Base	4	150180-0-00		
Z-40	Nut	4	021080-1-06		Z-46-14	Spring Washer 2-5	4	028050-2-43		
Z-41	Cushion	1	147919-0-01		Z-46-15	Nut 5	4	021500-1-03		
Z-42	Cushion	3	147919-0-02		Z-46-16	Spool Holder Assembly	2	150177-0-01		
Z-43	Oil Tank Cover	1	155323-0-00		Z-46-17	Bolt 5 x 28	2	017502-8-03		
Z-44	Washer	4	105161-0-03		Z-46-18-1	Cotton Stand Base	1	150189-0-01		Z-46-18 Cotton Stand Base Assembly 150139-0-01
Z-45	Screw 3.57 x 10	4	009671-0-12		Z-46-18-2	Screw 6 x 10	2	150181-0-01		
Z-46-1	Cap	1	150174-0-00	Z-46 Cotton Stand Assembly 150161-0-01	Z-46-19	Screw 4.5 x 22	3	031452-2-03	Z-47 Full-Submerged Set 155324-0-01 (Option Parts)	
Z-46-2	Thread Hanger Assembly	2	147055-0-01		Z-47-1	Bolt	3	153318-0-01		
Z-46-3	Washer	4	025050-2-33		Z-47-2	Washer 8	8	025080-2-36		
Z-46-4	Bolt 5 x 28	2	017502-8-03		Z-47-3	Collar	3	153317-0-01		
Z-46-5	Pipe	2	150172-0-01		Z-47-4	Spring Washer 2-8	5	028080-2-42		
Z-46-6-1	Joint	1		Z-46-6 Joint for Cotton Stand 150106-0-01	Z-47-5	Nut	5	021080-1-06		
Z-46-6-2	Screw 5 x 14	2	150202-0-01		Z-47-6	Bolt 8 x 55	1	211964-0-01		
Z-46-6-3	Nut 5	2	021500-1-03		Z-47-7	Bolt 8 x 55	1	017085-5-02		
Z-46-7-1	Thread Guide Holder	1	150185-0-01	Z-46-7 Thread Guide Holder Assembly 150145-0-01	Z-47-8	Head Plate Supporter	1	153319-0-01		
Z-46-7-2	Bolt 5 x 28	1	017502-8-03		Z-47-9	Stud	3	155326-0-01		
Z-46-7-3	Nut 5	1	021500-1-03		Z-47-10	Duster Shoot Supporter	1	155325-0-01		
Z-46-8-1	Thread Guide Supporter Bar	1	142996-0-01	Z-46-8 Thread Guide Supporter Bar 142971-0-01	Z-47-11	Washer	1	025680-2-32		
Z-46-8-2	Set Screw	1	013719-4-12		Z-47-12	Screw 4.37 x 10	1	009681-0-12		
Z-46-9	Thread Guide 4	1	142998-0-01							

\* 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.

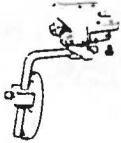






# DIFFERENT PARTS LIST





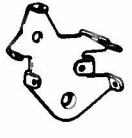

Sub Class	Specifications	Label		Stitch Length Control Plate	Oil Cap	Front Cover Assembly	Needle DC x 27 or DC X		Needle Clamp Assembly		
		A-26	146975-0-39				B-26	147838-0-11	B-50	154908-0-01	
021-4	Thin	A-26	146975-0-39	A-32	154808-0-01	A-97	154857-0-01	B-26	147838-0-11	B-50	154908-0-01
022-5	Thin, medium	A-26	146975-0-04								
-6			146975-0-05								
023-5	Thin, medium (Mock safety)	A-26	146975-0-65								
-6			146975-0-40								
024-5	Thin, medium	A-26	146975-0-64								
025-6	Thin, medium (Mock safety)	A-26	146975-0-10								
026-4	Bulky Knit	A-26	146974-0-68								
-5			146975-0-12								
-6			146975-0-13								
027-5	Bulky Knit	A-26	146975-0-62								
-6			146975-0-41								
-7			146975-0-15								
028-5	Bulky Knit (Mock safety)	A-26	146975-0-63								
-6			146975-0-69								
-7			146975-0-16								
031-7	Denim	A-26	146975-0-17	A-32	154808-0-01	A-99	154859-0-01	B-26	151474-0-21	B-52	154912-0-01
032-7	Denim (Mock safety)	A-26	146975-0-18								
033-5	Ruffling	A-26	146975-0-19	A-34	154810-0-01			B-26	151474-0-11		
034-5	Ruffling (Mock safety)	A-26	146975-0-20								
037-5	Ruffling (w/piping)	A-26	146995-0-21								
041-5	Taping	A-26	146975-0-23	A-32	154808-0-01	A-90	143196-0-01			B-51	154910-0-01
045-5	Bulky Knit taping	A-26	146975-0-31								
-6			146975-0-32								
-7			146975-0-33								
049-5	Backtacking	A-26	146975-0-66								
-6			146975-0-67								
050-5	Piping	A-26	146975-0-72	A-32	154808-0-01	A-97	154857-0-01	B-26	151474-0-11		
051-6	Bulky Knit	A-26	146975-9-81								
-7			146975-8-82								

Sub Class	Needle Guide F		Needle Plate		Over Looper		Differential Stitch Control		Differential Feed Dog		Main Feed Dog		Chain Feed Dog													
																										
021-4	B-24	146777-0-01	B-54	146779-0-01	D-11	155240-0-01	F-35	155172-0-01	F-80	146748-0-01	F-81	146744-0-01	F-82	146577-0-01												
022-5			B-55	146781-0-01					B-55	146782-0-01					F-83	146749-0-01										
-6																										
023-5			B-55	146781-0-01	D-14	155242-0-01																				
-6				146782-0-01																						
024-5	B-53	146778-0-01	B-56	148030-0-01	D-11	155240-0-01																				
025-6					B-56	148031-0-01	D-14	155242-0-01																		
	B-24	146777-0-01	B-54	146779-0-01	D-11	155240-0-01	F-42	155173-0-01	F-96	148402-0-01	F-97	148401-0-01	F-87	146578-0-01												
					B-55	146782-0-01																				
						146783-0-01																				
					B-55	146782-0-01			D-15	155243-0-01					F-84	146750-0-01	F-86	146745-0-01								
				146783-0-01																						
031-7	B-53	146778-0-01	B-58	146785-0-01	D-11	155240-0-01	F-35	155172-0-01	F-88	146791-0-01	F-89	146790-0-01	F-82	146577-0-01												
032-7															D-15	155243-0-01										
033-5	B-24	146777-0-01	B-57	146786-0-01	D-11	155240-0-01	F-41	155174-0-01	F-90	146751-0-01	F-91	146746-0-01	F-87	146578-0-01												
034-5															D-14	155242-0-01										
037-5																										
041-5															B-55	146781-0-01										
																146781-0-01	D-11	155240-0-01								
															B-55	146782-0-01										
																146783-0-01										
049-5			B-59	148366-0-01																						
-6				148367-0-01			F-35	155172-0-01	F-80	146748-0-01	F-81	146744-0-01	F-82	146577-0-01												
050-5			B-60	149192-0-01							F-94	149193-0-01	F-95	149194-0-01												
				150867-0-01																						
			B-61	150868-0-01			F-42	155173-0-01	F-85	150873-0-01	F-86	146745-0-01	F-87	146578-0-01												



Sub Class	Presser Foot Assembly	Spring	Felt Holder Assembly	Spacer	Ruffler Interlocking Parts Assembly	Ruffling Attachment Assembly	Handle and Nut	
021-4	G-50 154986-0-01	J-18 144104-0-01	L-1 154930-0-01	L-14 154933-0-01	L-13 154937-0-01	L-15 154938-0-01	L-13 154937-0-01	
022-5	G-52 154982-0-01							
-6								
023-5								-6
024-5	G-53 154987-0-01							
025-6								
026-4	G-50 154986-0-01							
027-5	G-54 154989-0-01							
	G-55 154985-0-01							
028-3	G-54 154989-0-01							
	G-55 154985-0-01							
031-7	G-53 154987-0-01							J-37 148851-0-01
032-7								
033-5	G-56 154983-0-01							
034-5								
037-5	G-57 154988-0-01	J-18 144104-0-01	L-1 154930-0-01	L-13 154937-0-01	Q-1 155547-0-02	Q-2 146587-1-02 Q-3 009781-8-12	Q-4 145809-0-01 Q-5 150556-0-02	
041-5	G-60 154984-0-01							
045-3								
049-5	G-52 154982-0-01							
	-6							
050-5	G-61 154990-0-01	J-18 144104-0-01	L-1 154930-0-01	L-13 154937-0-01	Refer to Q-1-1~Q-1-7	Q-15 149202-1-02 Q-3 009781-8-12	Q-4 145809-0-01 Q-5 150556-0-02	
051-6	G-46 154998-0-01							

Sub Class	Knee Lifter Shaft Bracket Assembly 	Connecting Bar Stud Screw 	Cotton Stand 	Tape Winder Assembly 	Wrapper Assembly 	Tape Guide 	Back-tack Presser Assembly 
021-4							
022-5							
-6							
023-5							
-6							
024-5							
025-6							
026-5							
027-5							
028-5							
031-7							
032-7							
033-5							
034-5	Q-11 155196-0-01 Q-12 009681-0-12	Q-13 155205-0-01 Q-14 146594-0-01					
037-5			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		
041-5						S- 1 155327-0-01 S- 2 009669-4-12	
049-5							T- 1 147473-0-01 T- 2 009670-6-12
-6							
050-5					R- 7 149197-0-00 R- 8 110735-0-02 R- 9 009680-6-12		
051-5							

Sub Class	Back-tack Guide 	Flexible Wire Assembly 	Wire Plate 	Thread Release Lever 	Thread Guide Supporter 	Needle DC x 27 or DC x 3 Assembly 
021-4	/	/	/	/		Z-12 147838-4-11
022-5 -6	/	/	/	/		
023-5 -6	/	/	/	/		Z-12 151474-4-11
024-5	/	/	/	/		
025-6	/	/	/	/		
026-4 -5 -6	/	/	/	/		Z-12 147838-4-11
027-5 -6 -7	/	/	/	/	J-13 110813-0-01	Z-12 151474-4-14
028-5 -6 -7	/	/	/	/		
031-7	/	/	/	/		Z-12 151474-4-21
032-7	/	/	/	/		
033-5	/	/	/	/		
034-5	/	/	/	/		Z-12 151474-4-11
037-5	/	/	/	/		
041-5	/	/	/	/		
045-5 -6 -7	/	/	/	/		Z-12 151474-4-14
049-5 -6	T- 3 147484-0-01 T- 4 141544-0-01	T- 5 147480-0-01 T- 6 141514-0-01	T- 7 147672-0-01 T- 8 009670-6-12	T- 9 148371-0-01 T-10 141514-0-01	T-11 156092-0-01	Z-12 151474-4-11
050-5	/	/	/	/	J-13 110813-0-01	
051-6 -7	/	/	/	/		Z-12 151474-4-14



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			009681-0-12	A-29			Z-47-11			G-52- 9	
001670-5-12	A- 4			A-31		025770-2-32	Q- 2-20			G-53- 9	
	A- 7			C-20			Q-15-18			G-54- 7=	
	Q- 2- 9			Q-12		028050-2-42	R- 1- 5			G-55- 7	
	Q-15- 7			Z-23		028050-2-43	Z-46-14			G-56- 7	
001670-6-12	A-10			Z-47-12		028080-2-42	Z-39			G-57- 7	
	J- 6		009681-2-12	A-22			Z-47- 4			G-60- 7	
	J- 8			K-44		031311-3-02	Z-19			G-62- 9	J- 4
	M-10		009681-6-12	M-12		031452-2-03	Z-46-19		105343-0-01	Z- 3	
001680-5-12	B-37		009682-2-12	K-35		047140-8-42	A-97- 7		106568-0-03	F-66	
	B-40			M-15			A-99- 7		107231-0-02	G-16	
007670-5-13	A- 5		009781-8-12	Q- 3		047201-6-40	L- 8- 3		107407-0-03	A-57	
009630-8-12	F-71					048020-3-42	G- 3			F-68	
009639-3-12	G-50- 3		013679-4-12	Q- 2-30		048040-3-42	F-58			F-69	
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	G-53- 3			Z-46- 8- 2		081011-0-70	A-87		108494-0-01	R- 2- 5	
	G-62- 3		013750-5-12	D- 6			K-51		108495-0-01	R- 2- 6	
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009660-6-12	D-12		014680-4-22	B-10			K-50			F-29	
009660-7-12	Q- 2- 3			E-12		081044-0-70	K-49			K-58	
009669-4-12	Q- 2			F-45- 3		100032-0-03	A- 2		110161-0-03	R- 1- 6	
009670-4-12	A-97- 8			F-46			B-41		110161-0-06	G-32	
	A-99- 8			M- 8		100080-0-02	R- 1- 3		110197-0-01	B- 9	
	J-32		014680-6-22	F-74		100080-0-04	G-50- 7			M- 7	
009670-5-12	K-17		014770-6-22	F- 5			G-51- 7		110230-0-01	Q- 2-15	
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	A-73		014780-6-22	B- 8			G-53- 7				
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	J-34		017771-4-12	C-24			H- 5- 6			Q-15-19	
	J-36		017771-6-12	A-75		100444-0-02	R- 1- 2		110832-0-01	J-15	
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	K-55		017782-0-12	B-35		100463-0-01	Q-11-13		112301-0-01	Q- 1- 7- 2	
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	C- 5			Z-46-15			F-52- 2			K-23	
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	F- 3		021670-2-02	B-32			K-34- 2- 2			K-28	
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	Q-15- 9			G-55- 4		104450-0-01	A-11			K-14	
	R- 6			G-56- 4		105161-0-03	Z-44		112525-0-00	K-63	
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	A-46			G-61- 7		105176-0-01	F-76			F-56	
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	F-49			Z-16- 2		105234-0-03	A-59		116016-0-01	Z-30	
	G-34		025050-2-33	Z-46- 3			Q- 2-16		117160-0-01	A-92	
	L-11		025080-2-36	Z-38			Q-15-14		117466-0-00	Z-11	
009680-8-12	D-10			Z-47- 2		105288-0-01	A-33		117516-0-01	F-70	
	Q- 2-28		025350-3-32	A- 9			G-50- 9			H-14	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
118735-0-02	A-74		145808-0-01	Q- 2-24		146887-0-01	G-62- 5		148367-0-01	B-59	
	F-39			Q-15-22		146888-0-01	G-50- 2		148369-1-01	Q- 1- 2	
	K-60			145809-0-01	Q- 4		G-51- 2		148372-0-01	G-37	
118770-0-01	F-55		145810-0-01	Q- 2-14		G-52- 2		148387-0-01	Q- 1- 8		
118837-0-01	Z- 7		Q-15-12		G-53- 2		148388-0-01	Q- 1- 7- 4			
122991-0-01	Z- 1		145811-0-01	Q- 2-10				148390-0-01	Q- 1- 7- 3		
123185-0-01	A-94		Q-15- 8		146903-0-01	G-52- 4		148391-0-01	Q- 1- 6		
124918-0-01	A-68		146315-0-00	A-60		146905-0-01	G-55- 2		148401-0-01	F-97	
126863-0-00	Z-46-11		A-61		146907-0-01	G-54- 2		148402-0-01	F-96		
140063-0-01	F-31		146427-0-01	A-16		146907-0-01	G-60- 2		148425-0-01	B-15- 5	
140066-0-01	A-62		B- 6		146924-0-00	A-91- 2			C-11- 2		
140077-0-01	A-80		B-50- 2		146926-0-02	J-25			D- 3- 2		
140210-0-01	F-20		B-51- 2		146926-0-03	J-27			D- 8- 8		
140217-0-01	F-24		B-52- 2		146964-0-01	G-50- 4			E- 2- 2		
140262-0-00	G-30		G- 9		146966-0-01	G-53- 4			H- 5- 5		
140317-0-00	H- 6		146442-0-01	A-97- 3		146975-0-04	A-26		148430-0-01	Z-18	
140320-0-00	B-17		A-99- 3		146975-0-05	A-26		148431-0-01	Z-20		
140342-0-01	Z- 2		146450-0-01	A- 3		146975-0-10	A-26		148432-0-01	Z-21	
140417-0-00	D-13		146452-0-01	B-31		146975-0-12	A-26		148782-0-01	E-10	
140759-0-00	Z-15		146453-0-01	B-30		146975-0-13	A-26		148797-0-01	Q-11-10	
141183-0-00	A-53		146454-0-01	B-27		146975-0-15	A-26		148798-0-01	Q-11-12	
141514-0-01	Q- 1- 4		146494-0-01	B-36		146975-0-16	A-26		148832-0-01	B-54	
	Q- 1- 7- 5		146495-0-01	B-39		146975-0-17	A-26		148834-0-01	B- 2	
141542-0-01	G-14		146522-0-01	G-31		146975-0-18	A-26		148838-0-01	F-15	
142125-0-00	Z-14		146536-0-01	F-60		146975-0-19	A-26		148851-0-01	J-37	
142262-0-01	Z-28		146547-0-00	F-51		146975-0-20	A-26		149170-0-01	B-16	
142343-0-01	Z-24		146559-0-01	F-33		146975-0-21	A-26			D- 8- 2	
142971-0-01	Z-46- 8		146563-0-01	F-40		146975-0-23	A-26			F- 7- 1- 2	
142996-0-01	Z-46- 8- 1		146577-0-01	F-82		146975-0-31	A-26			F-13	
142998-0-01	Z-46- 9		146578-0-01	F-87		146975-0-32	A-26			F-45- 1- 5	
143196-0-01	A-90		146584-0-01	H-19		146975-0-33	A-26			G-28	
143323-1-03	G-36		146587-1-02	Q- 2		146975-0-39	A-26			H- 5- 2	
143325-0-01	G-35		146588-0-01	Q- 2-12		146975-0-40	A-26			M- 5	
143766-0-01	A-86		Q-15-10		146975-0-41	A-26			149171-0-01	E- 9	
143767-0-02	R- 2		146589-0-01	Q- 2- 5		146975-0-62	A-26		149173-0-01	Z-10	
143980-0-01	R- 2- 1		Q-15- 2		146975-0-63	A-26			149183-0-01	G-61- 5	
144049-0-01	E-11		146590-0-01	Q- 2-22		146975-0-64	A-26		149192-0-01	B-60	
144074-0-00	H-10		Q-15-20		146975-0-65	A-26			149193-0-01	F-94	
144075-0-01	H-11		146592-0-01	Q- 2-29		146975-0-66	A-26		149194-0-01	F-95	
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144084-0-01	G- 2		146594-0-01	Q-14		146975-0-68	A-26		149202-1-02	Q-15	
144088-0-01	G-15		146654-0-01	J-33		146975-0-69	A-26		149203-0-01	Q-15- 1	
144091-0-01	G-56- 3		146700-0-01	Z- 8		146975-0-72	A-26		149525-0-01	G-51- 4	
	G-57- 3		146740-0-00	L- 1- 2		146975-0-81	A-26		149566-0-02	J-20- 1	
144103-0-03	J-17		L-14- 2		146975-0-82	A-26			J-21- 1		
144104-0-01	J-18		146744-0-01	F-81		147055-0-01	Z-46- 2			J-22- 1	
144105-0-00	J-19		146745-0-01	F-86		147362-0-00	F-72			J-23- 1	
	Q- 2-18		146746-0-01	F-91		147440-0-00	R- 4			Q- 2-17	
	Q-15-16		146748-0-01	F-80		147454-0-01	Q- 1- 1			Q-15-15	
144110-0-01	J-24		146749-0-01	F-83		147672-0-01	Q- 1- 3				
144117-0-00	H- 7		146750-0-01	F-84		147738-0-00	L- 1- 4		150106-0-01	Z-46- 6	
144124-0-01	Z- 6		146751-0-01	F-90			L-10- 3		150139-0-01	Z-46-18	
144127-0-02	E-13		146777-0-01	B-24			L-14- 4		150145-0-01	Z-46- 7	
144225-0-01	Z-27		146778-0-01	B-53		147759-0-01	G- 1		150161-0-01	Z-46	
144622-0-01	K-34- 1		146779-0-01	B-54		147828-0-01	F-92		150172-0-01	Z-46- 5	
	M-14- 2		146780-0-01	B-54		147832-0-01	F-93		150174-0-00	Z-46- 1	
144764-0-01	Q- 2- 8		146781-0-01	B-55		147893-0-01	Z-29		150177-0-01	Z-46-16	
	Q-15- 6		146782-0-01	B-55		147919-0-01	Z-41		150179-0-01	Z-46-10	
144783-0-01	Q- 2- 1		146783-0-01	B-55		147919-0-02	Z-42		150180-0-00	Z-46-13	
144784-0-01	Q- 2- 2		146785-0-01	B-58		147933-0-01	Q- 2-13		150181-0-01	Z-46-18- 2	
144788-0-01	Q- 2-19		146786-0-01	B-57			Q-15-11		150182-0-00	Z-46-12	
	Q-15-17		146790-0-01	F-89		147942-0-01	L- 6		150185-0-01	Z-46- 7- 1	
144816-0-01	G-56- 2		146791-0-01	F-88		148030-0-01	B-56		150189-0-01	Z-46-18- 1	
	G-57- 2		146887-0-01	G-50- 5		148031-0-01	B-56		150202-0-01	Z-46- 6- 2	
144874-0-01	K-54		G-51- 5		148085-0-01	A-71		150553-0-02	Q- 2-31		
145277-1-03	Z-26		G-52- 5		148259-0-01	G-13			Q-15-29		
145446-0-01	J-16		G-53- 5		148281-0-01	H- 2		150556-0-02	Q- 5		
145803-0-01	Q- 2- 4		G-54- 3		148294-0-01	D- 8- 4		150739-0-01	G-61- 6		
145807-0-01	Q- 2-27		G-55- 3			K-47		150867-0-01	B-61		
	Q-15-25		G-60- 3		148366-0-01	B-59		150868-0-01	B-61		



Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
150871-0-01	G-62- 4		154865-0-01	C- 8		154964-0-01	G-38		155186-0-00	H- 3	
150872-0-01	G-62- 2		154868-0-01	C- 3		154965-0-01	G-39		155187-0-01	H- 8	
150873-0-01	F-85		154869-0-00	C- 4			G-61- 9		155191-0-01	H-17	
151474-0-11	B-26		154870-0-01	C- 7		154966-0-01	G-40		155193-0-01	H-12	
151474-0-14	B-26		154871-0-01	C- 9			M-11- 6			Z-13	
151474-0-16	B-26		154872-0-01	C-10		154969-0-01	G-50- 8		155194-0-01	H-13	
151474-0-21	B-26		154873-0-01	C-11			G-51- 8		155195-0-01	H-15	
151474-4-11	Z-12		154875-0-01	C-12			G-52- 8		155196-0-01	Q-11	
151474-4-14	Z-12			G-21			G-53- 8		155197-0-01	Q-11- 1	
151474-4-16	Z-12		154876-0-01	C-14			G-54- 6		155198-0-01	Q-11- 5	
151474-4-21	Z-12		154877-0-01	C-15			G-55- 6		155199-0-01	Q-11- 8	
152194-0-01	A-97- 4		154878-0-01	C-16			G-60- 6		155200-0-01	Q-11-10	
	A-99- 4		154879-0-00	C-18			G-62- 8		155201-0-01	Q-11- 6	
152718-0-01	B-14- 2		154880-0-01	C-17		154972-0-01	G-56- 6		155202-0-01	Q-11- 4	
	D- 2- 2		154881-0-00	C-19			G-57- 6		155203-0-01	Q-11- 2	
	E-15- 2		154882-0-01	C-21		154982-0-01	G-52		155205-0-01	Q-13	
	H- 4- 2		154885-0-01	C-13		154983-0-01	G-56		155207-0-01	M-14	
152936-0-01	K-61		154886-0-01	C-23		154984-0-01	G-60		155212-0-01	M-11	
153317-0-01	Z-47- 3		154887-0-01	C-22		154985-0-01	G-55		155213-0-01	M-11- 8	
153318-0-01	Z-47- 1		154888-0-01	B-15		154986-0-01	G-50		155214-0-00	M-11- 8- 1	
153319-0-01	Z-47- 8		154891-0-01	B-11		154987-0-01	G-53		155215-0-00	M-11- 8- 3	
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153675-0-01	G-20		154894-0-00	B-12		154989-0-01	G-54		155217-0-01	M-11- 4	
	K-32		154895-0-01	B- 4		154990-0-01	G-61		155218-0-01	M-11- 3	
154795-0-01	Q- 2-26		154896-0-00	B- 7		154992-0-01	G-51		155219-0-00	M- 3	
	Q-15-24		154897-0-01	B- 1		154998-0-01	G-62		155220-0-00	M- 6	
154798-0-01	A-21		154899-0-01	B- 3		155125-0-01	F-45		155222-0-01	M- 4	
154800-0-00	A-23		154900-0-01	B-20		155132-0-01	F-45- 9		155223-0-01	M- 1	
154801-0-01	A-44		154901-0-01	B-21		155133-0-01	F-45-10		155224-0-01	M- 9	
154802-0-00	A-45		154902-0-01	B-19		155138-0-01	F-59		155225-0-01	D- 3	
154803-0-01	A-41		154903-0-01	B- 5		155139-0-01	F-57			E- 2	
154804-0-01	A-55		154904-0-00	B-18		155140-0-01	F- 4		155228-0-01	D- 5	
154805-0-00	A-56		154905-0-00	B-23		155141-0-00	F- 6		155229-0-00	D- 1	
154806-0-00	A-28		154908-0-01	B-50		155142-0-00	F-10		155230-0-00	D- 7	
154808-0-01	A-32		154910-0-01	B-51		155143-0-00	F-16		155231-0-01	D- 8	
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154811-0-01	A-14		154923-0-01	H-20		155146-0-01	F-50		155242-0-01	D-14	
154812-0-01	A-17		154924-0-01	L-10		155151-0-00	F-63		155243-0-01	D-15	
154813-0-00	A-15		154928-0-00	L-10- 2		155152-0-01	F-53		155244-0-01	E- 4	
154814-0-01	A-18		154929-0-00	L-10- 4		155153-0-00	F-48		155245-0-00	E- 1	
154815-0-01	A-20		154930-0-01	L- 1		155154-0-01	F-12		155246-0-00	E- 6	
154817-0-01	A-83		154931-0-00	L- 1- 1		155155-0-01	F-11		155247-0-00	A-79, E- 7	
154818-0-00	A-84		154932-0-00	L- 1- 3		155156-0-01	F-18		155248-0-01	E- 8	
154819-0-00	A-77			L-14- 3		155157-0-01	F-19		155263-0-01	K-33	
154820-0-00	A-76		154933-0-01	L-14			F-23		155264-0-01	K-34	
154821-0-01	A-12		154934-0-00	L-14- 1		155158-0-01	F-17		155269-0-01	K-31	
154823-0-01	A-91		154937-0-01	L-13		155159-0-01	F- 7		155270-0-01	K- 9	
154829-0-01	A-93		154938-0-01	L-15		155162-0-01	D- 8- 3		155272-0-01	K-29	
154830-0-01	A- 1		154939-0-00	L- 3			F- 7- 1- 3		155282-0-01	K-10	
154831-0-01	A-52		154940-0-00	L- 4		155164-0-01	F-21		155284-0-01	K- 7	
154832-0-01	A- 6		154941-0-00	L- 7		155165-0-01	F-22		155286-0-01	K- 1	
154833-0-01	B-29		154942-0-00	L- 5		155166-0-01	F- 8		155290-0-00	K- 3	
154834-0-01	A- 8		154943-0-01	L- 8		155167-0-01	F- 9		155291-0-01	K- 4	
154835-0-01	A-58		154945-0-01	L- 8- 2		155168-0-01	F-25		155292-0-01	K-22	
154836-0-01	A-67		154946-0-01	G- 8		155169-0-01	F-30		155294-0-00	K-15	
154837-0-01	A-81		154947-0-01	G-12		155170-0-00	F-28		155295-0-01	K-16	
154838-0-01	A-50		154950-0-01	G-11		155171-0-01	F-32		155296-0-00	K-41	
154841-0-01	A-88		154951-0-01	G-10		155172-0-01	F-35		155297-0-00	K-42	
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	A-99- 6		154956-0-01	G-26		155177-0-00	F-64		155302-0-01	K-56	
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	A-99- 2		154958-0-00	G-23		155179-0-01	F-73		155304-0-01	J- 9	
154856-0-00	A-97- 5		154959-0-01	G-22		155180-0-01	F-75		155305-0-01	J- 7	
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154857-0-01	A-97		154961-0-01	G-19					155307-0-01	J- 3	
154859-0-01	A-99		154962-0-01	G-18		155185-0-01	H- 1		155308-0-01	J- 1	





