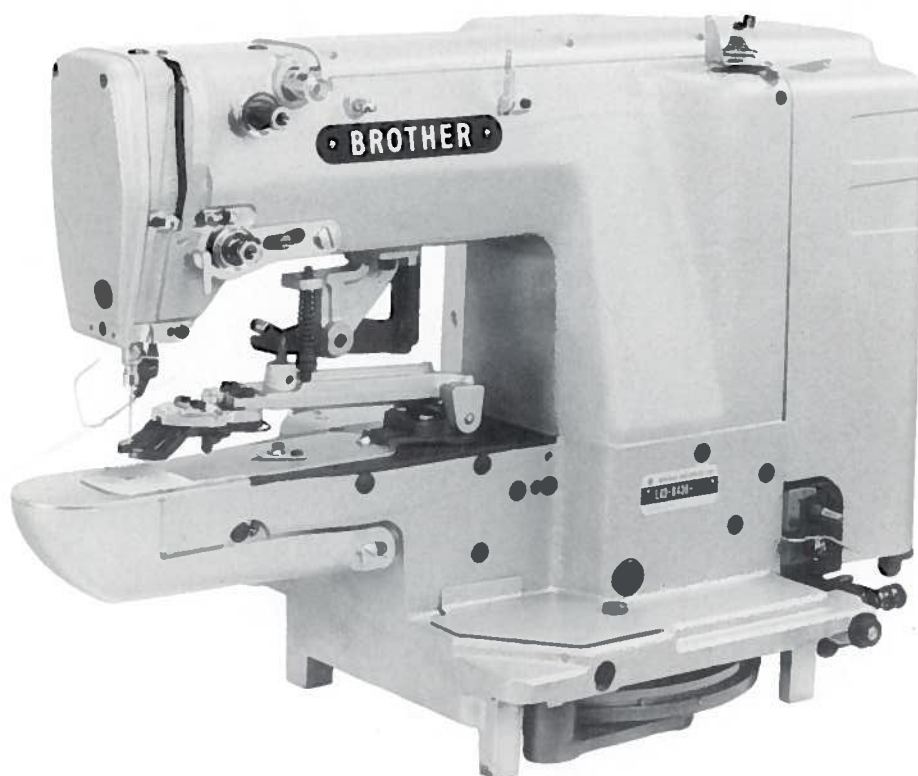


PARTS BOOK

FOR

BROTHER LK3-B438-2,-3,-4

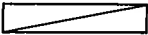
P438202



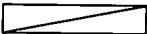
High Speed Lock Stitch **Button Sewing Machine**

BROTHER INDUSTRIES, LTD.
NAGOYA, JAPAN

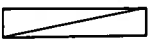
Notes for using this parts book

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  is found in the "Parts No." column or the "Assembly No." column, refer to the different parts list on page 16.
3. The symbol  in the "Parts No." column indicates that the Parts is not available for supply. If, however, there is a number in the "Assembly No." column, the parts can be ordered as an assembly. Please, therefore, order by using the Assembly No.
4. This book was prepared based on information available in April, 1981.
5. Parts are subject to changes in design without prior notice.

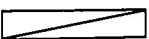
Anmerkungen zum Gebrauch dieses Stücklistebuches

1. Dieses Buch bezieht sich auf die Nähmaschinen mit derselben Kennungsnummer wie auf diesem Buchumschlag (oder auf dem Korrekturblatt).
2. Dieses Zeichen  in der Spalte "Parts No. (Teilnummer)" oder "Assembly No. (Gerätesatznummer)" verweist auf die Gesonderte Stückliste auf Seite 16.
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. Dieses Buch basiert auf den Informationen vom April, 1981.
5. 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  se trouve dans la colonne "Parts No. (N° de pièce)" ou dans la colonne "Assembly No. (N° jeu de pces)", veuillez vous référer à la liste de pièces annexe page 16.
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. Ce manuel a été fait d'après les renseignements valables au mois de Avril 1981.
5. Les pièces peuvent être sujettes à des modifications sans préavis.

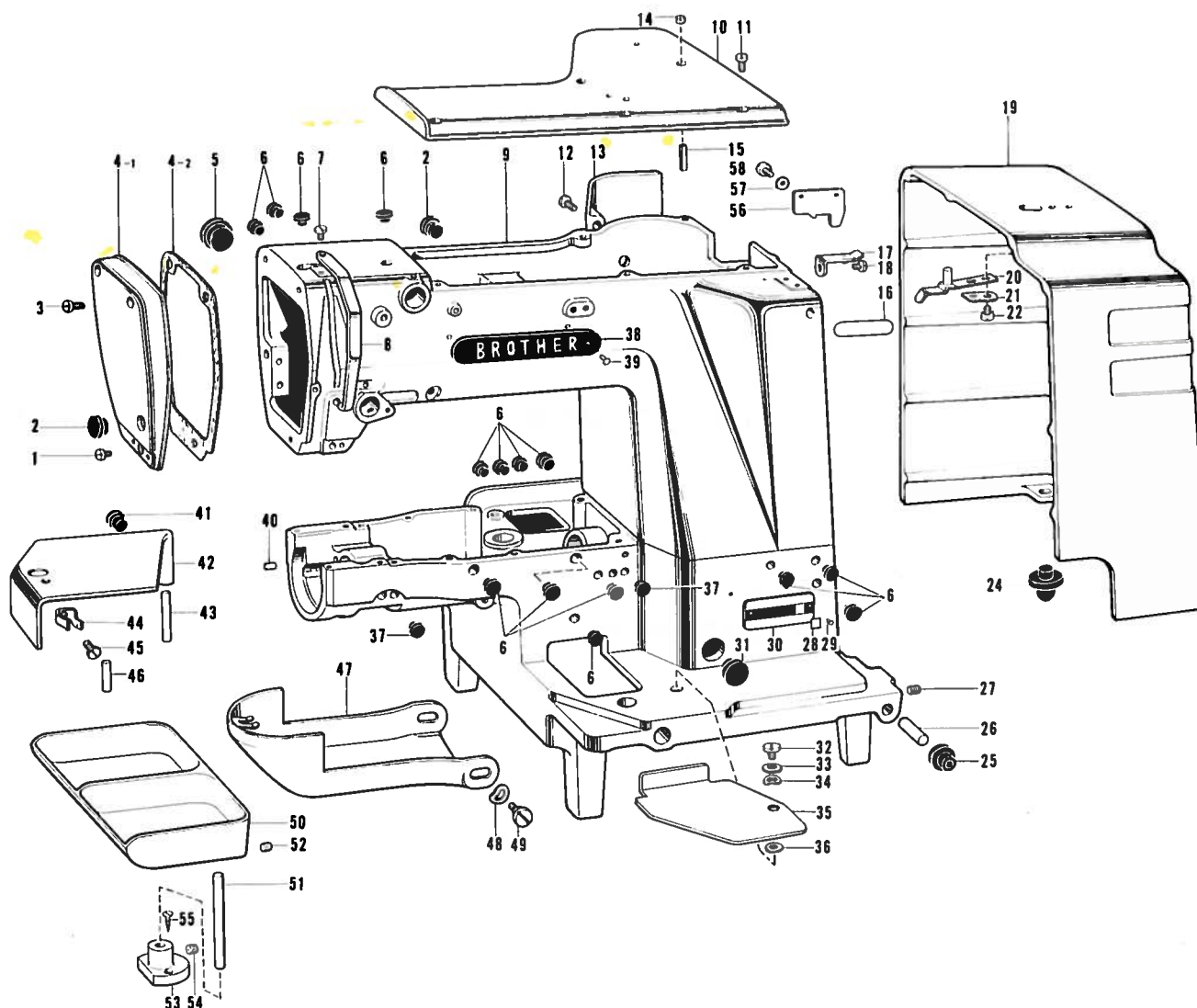
Notas para usar este Libro de Piezas

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 un símbolo  junto al "Parts No. (Número de Pieza)" o en la columna del "Assembly No. (Número de Juego)", habrá que mirar la lista de piezas separada de la página 16.
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. Este libro ha sido compilado basándose en los datos de que se disponía en abril de 1981.
5. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

CONTENTS

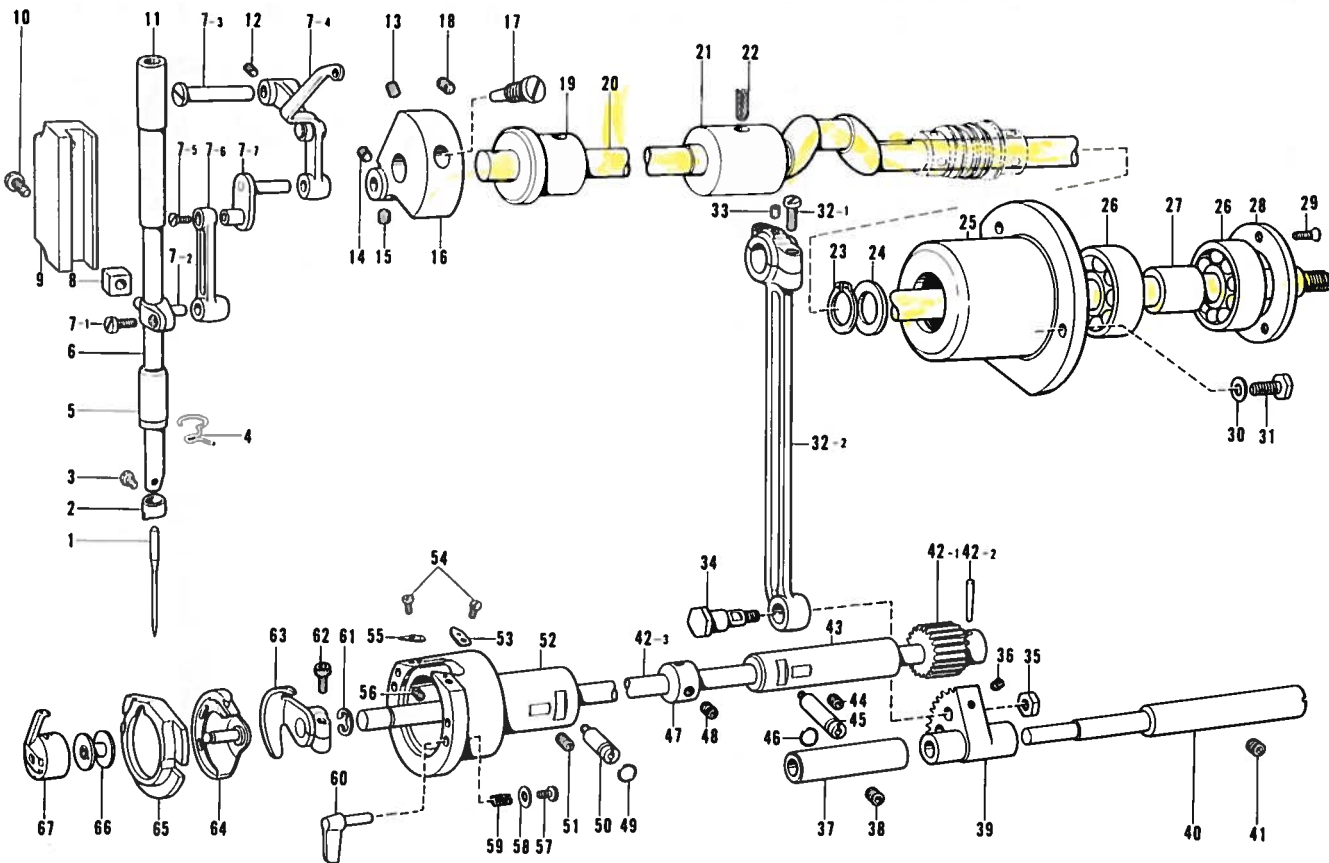
A. Machine Body	1
B. Upper Shaft · Lower Shaft and Needle Bar Mechanism	2
C. Pulley and Clutch Mechanism	3
D. Power Lift and Clutch Mechanism	4
E. Presser Arm Mechanism	5
F. Feed Mechanism	6
G. Vertical Shaft Mechanism	7
H. Work Clamp and Thread Wiper Mechanism	8
J. Thread Trimming and Thread Nipper Mechanism	9
K. Bobbin Winder and Threading Mechanism	10
L. Oil Pan	11
M. Lubrication	12
Z. Accessories	13
a. Special Order Parts	14
b. Shank Attachment Device (Special order parts)	15
DIFFERENT PARTS LIST	16
INDEX	18

A. Machine Body



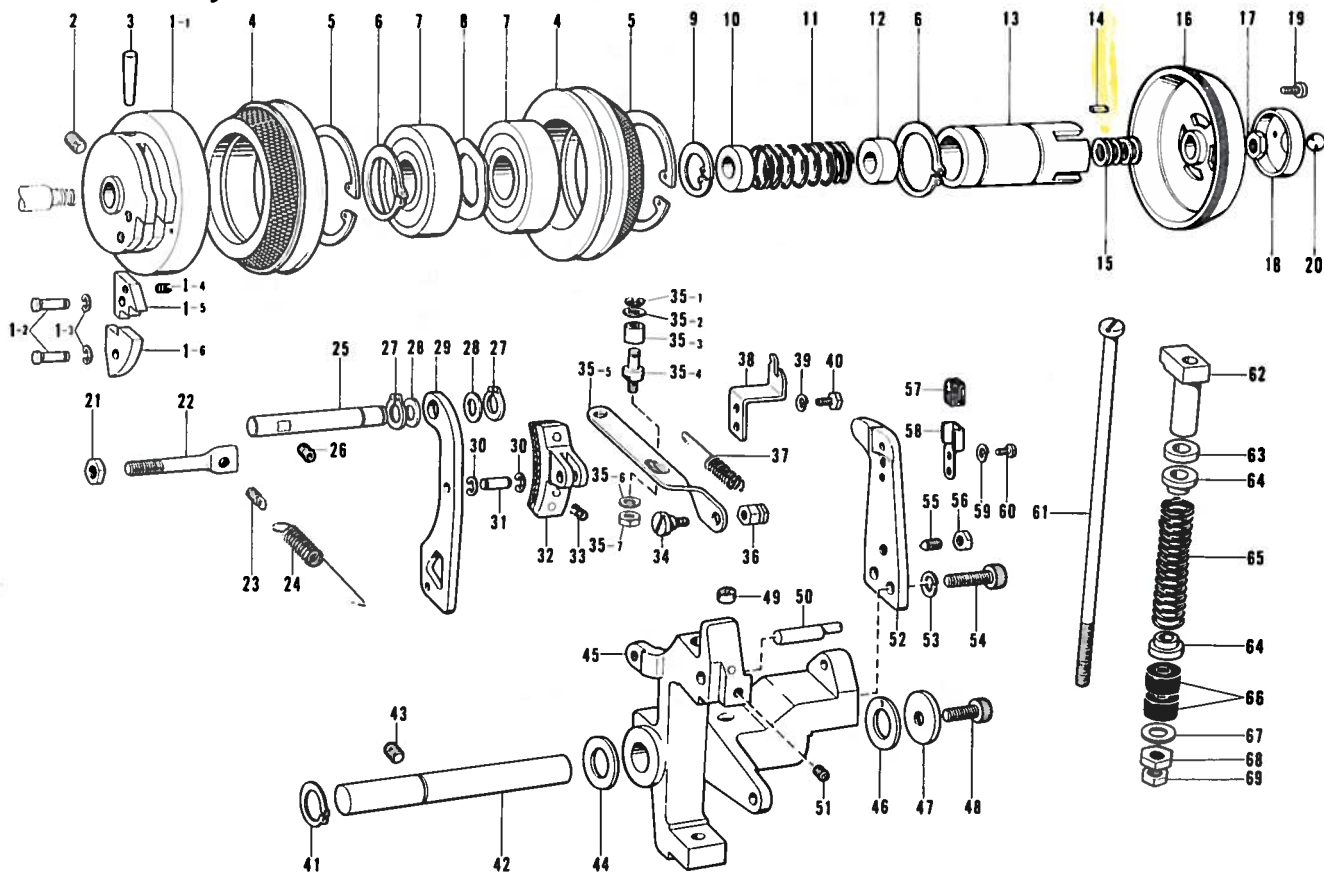
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A-1	Screw 4.76 x 7	1	009710-7-12		A-30	Model Plate	1		
A-2	Oil Cap	2	117934-0-01		A-31	Oil Cap	1	108520-0-01	
A-3	Screw 4.76 x 14	2	009711-4-12		A-32	Screw 6.35	1	145480-0-01	
A-4-1	Face Plate	1	152832-0-02	A-4 Face Plate Assembly 152831-0-00	A-33	Washer	1	118719-0-01	
A-4-2	Packing	1	152833-0-01		A-34	Washer	1	100315-0-02	
A-5	Oil Cap	1	140392-0-01		A-35	Bed Cover (R)	1	152835-0-02	
A-6	Oil Cap	15	117936-0-01		A-36	Washer 6.35	1	025770-2-32	
A-7	Screw 3.57 x 8	1	009670-8-12		A-37	Oil Cap	2	104450-0-01	
A-8	Thread Take-up Cover	1	152841-0-02		A-38	Name Plate	2		
A-9	Arm Bed	1			A-39	Pin	4		
A-10	Top Cover	1	152830-0-02		A-40	Pin	1	141808-0-01	
A-11	Screw 5.95 x 14	6	009761-4-12		A-41	Oil Cap	1	104450-0-01	
A-12	Screw 4.76 x 14	4	009711-4-12		A-42	Bed Cover (L) Assembly	1	152836-0-02	
A-13	Side Cover	1	153868-1-02		A-43	Bed Cover Shaft	1	152839-0-01	
A-14	Felt	2	154785-0-00		A-44	Bed Cover Stop Spring	1	114985-0-01	
A-15	Spring Pin AW5	2	047501-2-42		A-45	Screw 4.37 x 6	1	009680-6-12	
A-16	Parts Book Number Plate	1			A-46	Grooved Pin	1	152838-0-01	
A-17	Belt Cover Spring Plate	1	152989-0-01		A-47	Shuttle Race Cover Assembly	1	152842-0-02	
A-18	Screw 4.37 x 8	1	009680-8-12		A-48	Washer	2	109239-0-02	
A-19	Belt Cover	1	152846-0-02		A-49	Screw 5.95	2	115493-0-02	
A-20	Belt Cover Spring	1	152848-0-01		A-50	Button Tray	1	115270-0-03	
A-21	Belt Cover Stopper	1	152986-0-01		A-51	Button Tray Leg	2	115160-0-01	
A-22	Screw 4.37 x 8	2	009680-8-12		A-52	Screw 6.35 x 6	2	014770-6-22	
A-24	Packing	2	152847-0-00		A-53	Button Tray Holder	1	153843-0-01	
A-25	Head Cushion	2	152868-0-00		A-54	Screw 5.95 x 6	1	014760-6-22	
A-26	Hinge Shaft	2	152867-0-00		A-55	Screw 3.5 x 16	2	101795-0-01	
A-27	Screw 5.95	2	151604-0-02		A-56	Stitch Control Plate	1		
A-28	Label	1			A-57	Washer 4.37	2	025680-1-33	
A-29	Pin	2			A-58	Screw 4.37 x 6	2	009680-6-13	

B. Upper Shaft · Lower Shaft and Needle Bar Mechanism



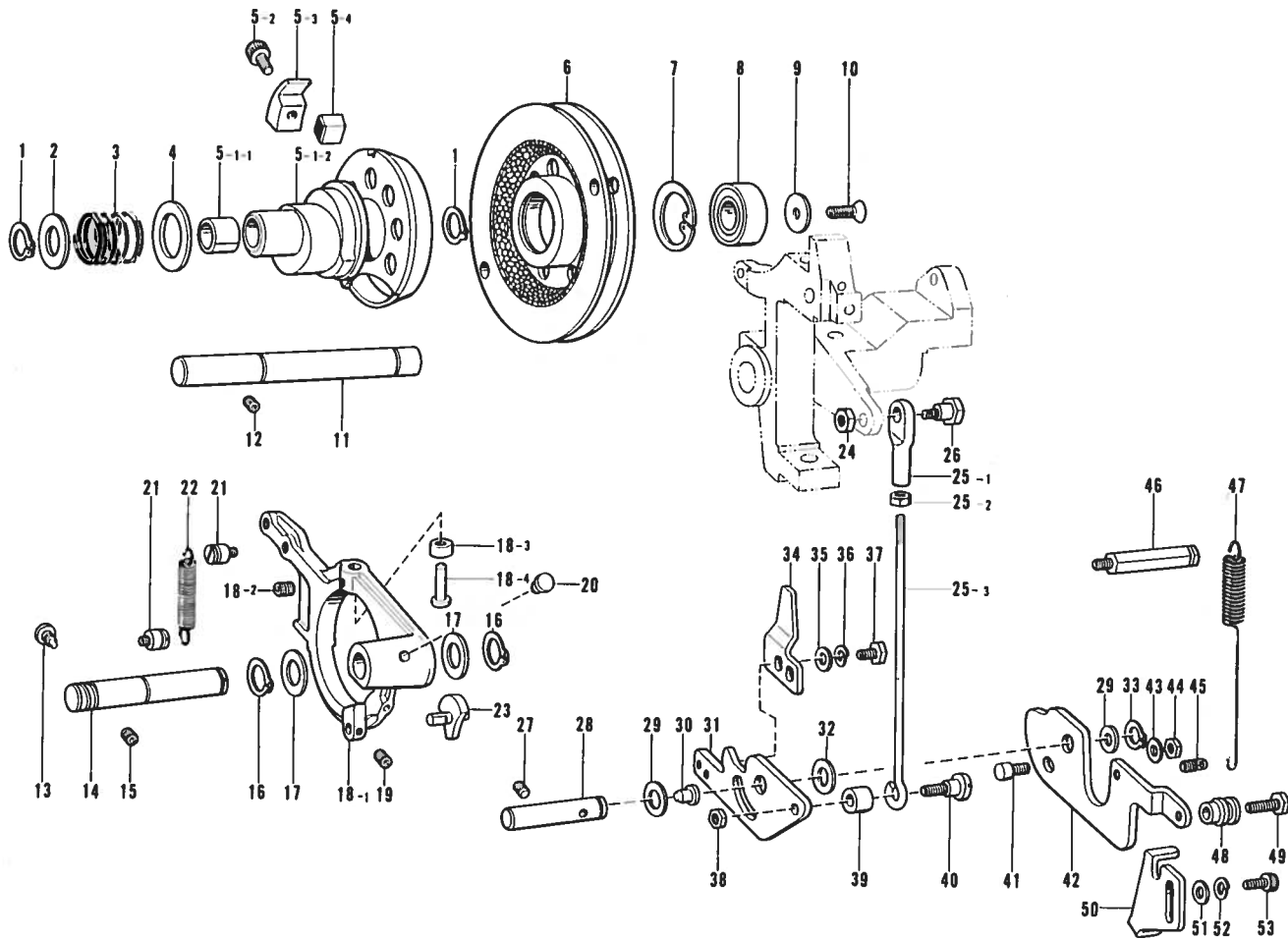
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B-1	Needle TQ x 1 #16	1	115053-0-16		B-33	Felt	1	107149-0-01	
B-2	Needle Bar Thread Guide (A)	1	152890-0-01		B-34	Screw	1	141786-0-01	
B-3	Screw 3.57	1	144458-0-01		B-35	Nut 7.14	1	104689-0-01	
B-4	Thread Guide (D)	1	154626-0-01		B-36	Screw 4.37 x 6	1	014680-6-22	
B-5	Needle Bar Bushing (DS)	1	154627-0-01		B-37	Rock Shaft Bushing	1	152247-0-01	
B-6	Needle Bar (D)	1	154701-0-01		B-38	Screw 5.95 x 6	1	014760-6-22	
B-7-1	Screw 4.37 x 8	1	009680-8-12		B-39	Rock Gear	1	152245-0-01	
B-7-2	Needle Bar Clamp	1	152239-0-01		B-40	Rock Gear Shaft	1	152246-0-01	
B-7-3	Stud	1	152236-0-01		B-41	Screw 5.95 x 6	1	014760-6-22	
B-7-4	Thread Take-up Assembly	1	153330-0-01		B-42-1	Lower Shaft Gear	1		
B-7-5	Screw 3.57L	1	100253-0-01		B-42-2	Taper Pin 3 x 16	1	046301-6-20	
B-7-6	Needle Bar Connector	1	152238-0-01		B-42-3	Lower Shaft	1		
B-7-7	Needle Bar Crank (B)	1	154624-0-01		B-43	Lower Shaft Bushing	1	152250-0-01	
B-8	Slide Block	1	142211-0-01		B-44	Screw 5.95 x 6	1	014760-6-22	
B-9	Needle Bar Guide	1	152244-0-00		B-45	Driver Adjusting Stud	1	152676-0-01	
B-10	Screw 6.35 x 14	2	009781-4-12		B-46	Packing PW3	1	081003-6-70	
B-11	Needle Bar Bushing (U)	1	152242-0-01		B-47	Collar	1	110495-0-03	
B-12	Screw 5.95	1	013761-4-12		B-48	Screw 6.35 x 6	2	014770-6-22	
B-13	Screw 6.35 x 6	1	014770-6-22		B-49	Packing PW3	1	081003-6-70	
B-14	Screw 6.35 x 6	1	014770-6-22		B-50	Shuttle Hook Adjusting Stud	1	152678-0-01	
B-15	Screw 6.35	1	123006-0-01		B-51	Screw 5.95 x 6	1	014760-6-22	
B-16	Counter Weight (B)	1	154623-0-00		B-52	Shuttle Race Body	1	152677-0-01	
B-17	Screw 7.14	1	100250-0-01		B-53	Shuttle Race Thread Guide (R)	1	152679-0-01	
B-18	Screw 5.95	1	013761-4-12		B-54	Screw 3.18 x 3	2	009660-3-12	
B-19	Upper Shaft Bushing (Front)	1	152000-0-01		B-55	Shuttle Race Thread Guide (L)	1	152680-0-01	
B-20	Upper Shaft	1	151995-0-01		B-56	Felt	2	153050-0-00	
B-21	Upper Shaft Bushing (Intermediate)	1	140726-0-00		B-57	Screw 3.18 x 7	2	009660-7-12	
B-22	Wick 4 x 4	1	153925-0-01		B-58	Washer 3.2	2	402887-0-01	
B-23	Stop Ring C15	1	048150-1-42		B-59	Spring	2	152684-0-01	
B-24	Thrust Ring	1	116920-0-01		B-60	Shuttle Race Ring Set Claw	2	152683-0-01	
B-25	Ball Bearing Case	1	151997-0-00		B-61	Stop Ring E8	1	048080-3-42	
B-26	Ball Bearing 6302VV	2	072630-2-60		B-62	Bolt 5 x 14	1	018501-4-22	
B-27	Bearing Collar	1	151998-0-00		B-63	Driver	1	152681-1-01	
B-28	Bearing Cap	1	151999-0-01		B-64	Shuttle Hook (A)	1	152685-0-01	
B-29	Screw 3.57	3	102843-0-04		B-65	Shuttle Race Ring (A)	1	152682-0-01	
B-30	Washer 6	3	025060-2-32		B-66	Bobbin	1	145265-0-01	
B-31	Bolt 5.95 x 14	3	017761-4-12		B-67	Bobbin Case Assembly (A)	1	152688-1-01	
B-32-1	Screw 4.76	2	144712-0-02						
B-32-2	Crank Rod	1							

C. Pulley and Clutch Mechanism



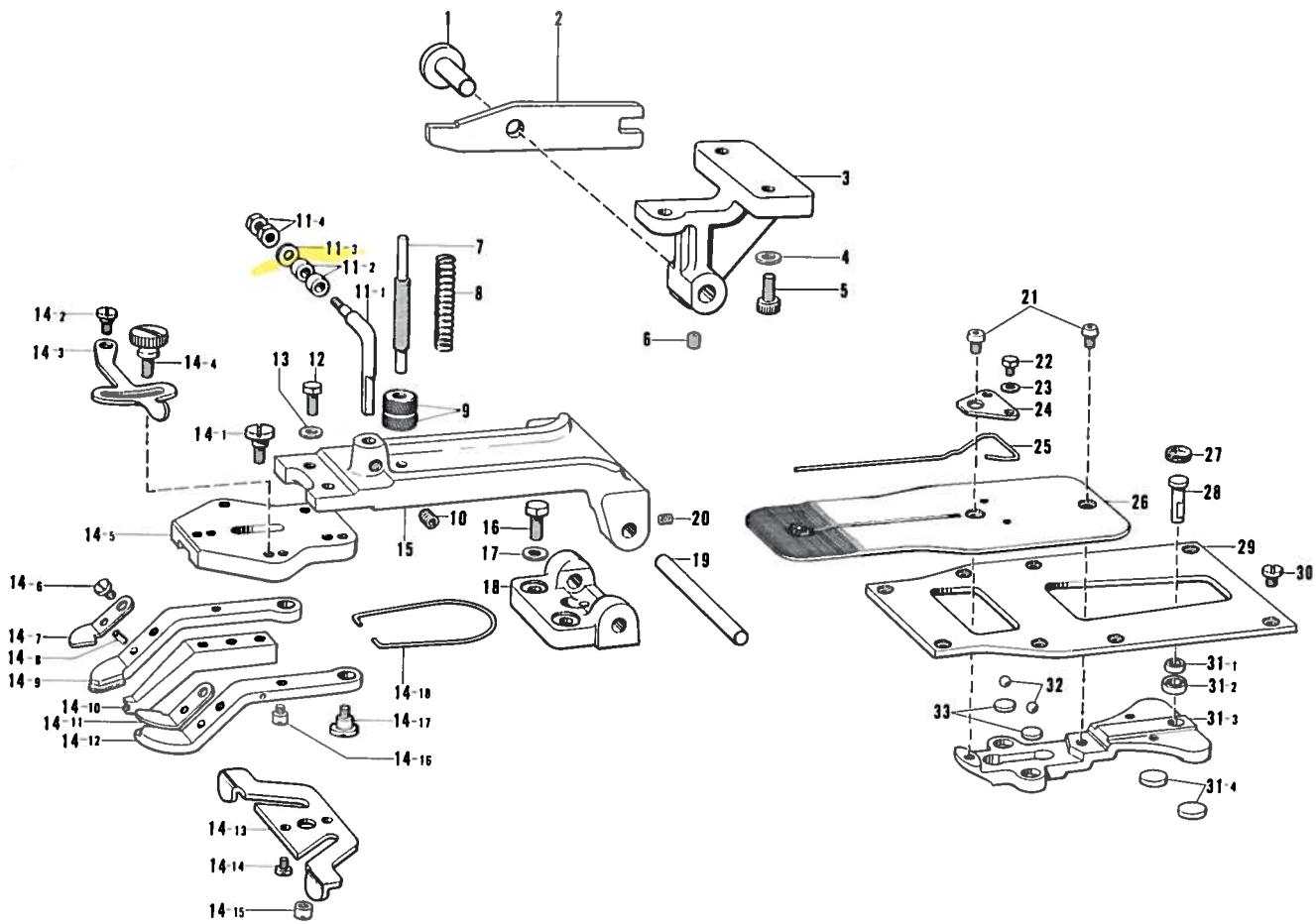
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C-1-1	Stop Cam Assembly	1		C-1 Stop Cam Assembly 153044-0-01	C-35-2	Washer	1	113431-0-02	C-35 Clutch Lever Rod Assembly 151904-1-01
C-1-2	Pin	2	153058-0-01		C-35-3	Roller	1	107744-0-01	
C-1-3	Stop Ring E4	2	048040-3-42		C-35-4	Roller Stud	1	151906-1-01	
C-1-4	Brake Cam Segment Spring	1	152694-0-01		C-35-5	Clutch Lever Rod	1	151905-1-01	
C-1-5	Brake Cam Segment	1	152693-0-01		C-35-6	Washer 4.37	1	025680-1-33	
C-1-6	Flange Cam Segment	1	115003-0-01		C-35-7	Nut 4.37	1	021680-2-02	
C-2	Screw 6.35 x 6	1	014770-6-22		C-36	Nut 5.95	1	151908-0-01	
C-3	Taper Pin 6 x 35	1	147111-0-01		C-37	Spring	1	155501-0-01	
C-4	Pulley Assembly	2	152695-0-01		C-38	Spring Hook	1	151910-0-01	
C-5	Stop Ring C62	2	048620-2-42		C-39	Washer 2-5	2	028050-2-42	
C-6	Stop Ring C35	2	048350-1-42		C-40	Bolt 4.76	2	117363-0-01	
C-7	Ball Bearing 6007VV	2	072600-7-60		C-41	Stop Ring C18	1	048180-1-42	
C-8	Washer	1	152699-0-01		C-42	Clutch Lever Shaft	1	151887-0-01	
C-9	Stop Ring C24	1	048240-2-42		C-43	Screw 7.94 x 10	1	014821-0-22	
C-10	Slide Bush (B)	1	151946-0-00		C-44	Washer 18	1	152756-0-01	
C-11	Clutch Spring	1	152701-0-01		C-45	Clutch Lever	1	151886-0-01	
C-12	Slide Bush (A)	1	152700-0-00		C-46	Washer 18	1	151929-0-00	
C-13	Slide Metal	1	152698-0-01		C-47	Washer 8	1	152728-0-01	
C-14	Key 3 x 3 x 6	1	152704-0-00		C-48	Bolt 8 x 15	1	151163-0-01	
C-15	Spacer	5	152703-0-00		C-49	Felt	1	151927-0-01	
C-16	Clutch	1	152702-0-01		C-50	Brake Side Pin	1	151901-0-01	
C-17	Nut 10L	1	152705-0-01		C-51	Screw 5.95 x 6	1	014760-6-22	
C-18	Ball Holder	1	152706-0-01		C-52	Ball Presser Plate	1	151888-1-01	
C-19	Screw 3.18 x 7	4	009660-7-12		C-53	Washer 2-8	2	028080-2-42	
C-20	Steel Ball 3/8	1	071095-2-50		C-54	Bolt 8 x 25	2	018082-5-22	
C-21	Nut 7.94	1	106147-0-01		C-55	Screw 6.35	1	115012-0-02	
C-22	Spring Hook	1	151903-0-01		C-56	Nut 6.35	1	150554-0-02	
C-23	Spring Hook	1	110251-0-01		C-57	Wick	1	152977-0-01	
C-24	Brake Spring	1	151902-0-01		C-58	Wick Holder	1	152976-0-01	
C-25	Brake Lever Shaft	1	151900-0-01		C-59	Washer 2-4	2	028040-2-42	
C-26	Screw 5.95	1	013761-4-10		C-60	Screw 3.57 x 5	2	009670-5-12	
C-27	Stop Ring C11	2	048110-1-42		C-61	Stopper Bar	1	151893-0-01	
C-28	Horizontal Feed Crank Ring	2	142628-0-01		C-62	Clutch Stopper	1	151889-0-01	
C-29	Brake Lever	1	151894-0-01		C-63	Cushion Rubber	1	151890-0-00	
C-30	Stop Ring E4	2	048040-3-42		C-64	Spring Holder	2	1151892-0-01	
C-31	Brake Shaft	1	151898-0-01		C-65	Clutch Spring	1	151891-0-01	
C-32	Brake Assembly	1	151895-0-00		C-66	Cushion Rubber	2	115018-0-01	
C-33	Spring	1	151899-0-01		C-67	Washer 7.14	1	025800-3-33	
C-34	Screw 5.95	1	151907-0-01		C-68	Nut 7.14	1	021800-1-03	
C-35-1	Stop Ring E3	1	048030-3-42	C-35 151904-1-01	C-69	Nut 7.14	1	104689-0-01	

D. Power Lift and Clutch Mechanism



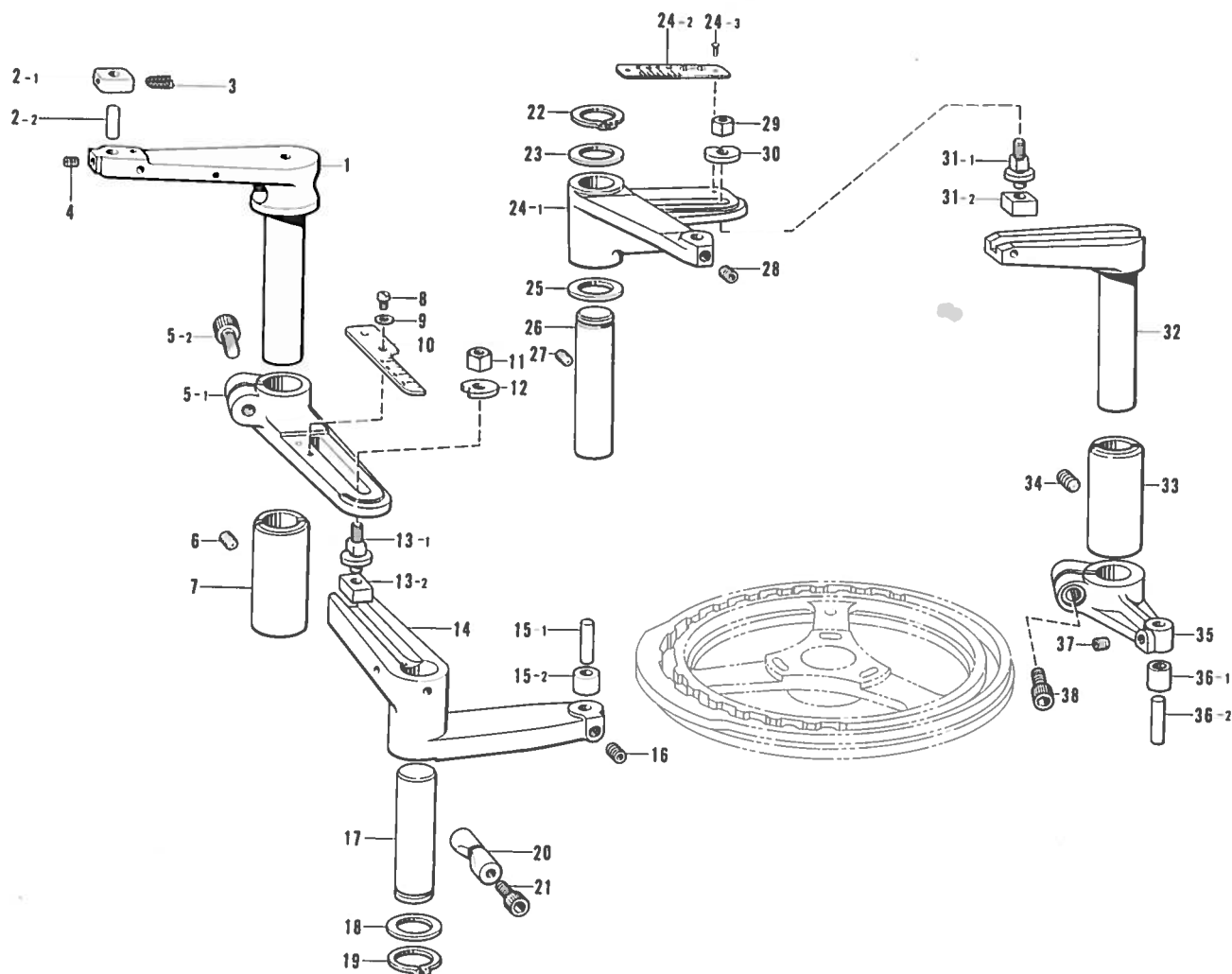
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D- 1	Stop Ring C17	2	048170-1-42		D-25-1	Joint	1	154333-0-01	D-25
D- 2	Washer 17	1	151937-0-01		D-25-2	Nut 6.35	1	150555-0-01	Connecting
D- 3	Clutch Spring P	1	151936-0-01		D-25-3	Connecting Rod	1	154332-0-01	Rod Assembly
D- 4	Washer	1	151938-0-01		D-26	Screw 6.35	1	151912-0-01	152808-1-01
D- 5-1-1	DV Bush	2	151935-0-00	D-5-1	D-27	Screw 5.95	1	013761-4-10	
D- 5-1-2	Power Cam	1		Power Cam	D-28	Starting Lever Shaft	1	151925-0-01	
D- 5-2	Bolt 6 x 8	1	018060-8-22	Assembly	D-29	Horizontal Feed Crank Ring	2	142628-0-01	
D- 5-3	Power Cam Stopper (A)	1	151940-0-01	151933-0-01	D-30	Cap for Oil Inlet	1	111865-0-01	
D- 5-4	Power Cam Stopper (B) Assembly	1	151941-0-01	D-5	D-31	Starting Lever	1	151919-1-01	
D- 6	Pulley	1	153867-1-01	Power Cam	D-32	Washer	1	110505-0-01	
D- 7	Stop Ring C35	1	048350-2-42	Set	D-33	Stop Ring C11	1	048110-1-42	
D- 8	Ball Bearing 6003VV	1	072600-3-60	155523-0-01	D-34	Starting Safety Lever	1	151920-0-01	
D- 9	Bearing Cover	1	151932-0-01		D-35	Washer	2	113431-0-02	
D-10	Screw 4.76	1	107231-0-02		D-36	Washer 2-5	2	028050-2-42	
D-11	P Pulley Shaft	1	151928-0-01		D-37	Bolt 4.76 x 14	2	017711-4-12	
D-12	Screw 5.95 x 6	1	014760-6-22		D-38	Nut 6.35	1	150556-0-01	
D-13	Screw	1	151954-0-01		D-39	Collar 13	1	151914-0-01	
D-14	Clutch Actuating Lever Shaft	1	151952-0-01		D-40	Screw 6.35	1	151913-0-01	
D-15	Screw 7.94 x 10	1	014821-0-22		D-41	Screw	1	154155-1-01	
D-16	Stop Ring C16	2	048160-1-42		D-42	Starting Lever Plate	1	155499-0-01	
D-17	Washer 16	2	151953-0-01		D-43	Washer 6	1	025060-2-32	
D-18-1	Clutch Actuating Lever	1			D-44	Nut 5.95	1	150553-0-01	
D-18-2	Screw 5.95 x 6	2	014760-6-22	D-18	D-45	Spring Hook	1	110251-0-01	
D-18-3	Roller 11	2	151947-1-01	Clutch Actuating	D-46	Spring Hook	1	151924-0-01	
D-18-4	Roller Stud	2	151948-0-01	Lever Assembly	D-47	Spring	1	151923-0-01	
D-19	Screw 5.95 x 6	1	014760-6-22	151944-0-01	D-48	Chain Hook	1	151922-0-01	
D-20	Cap for Oil Inlet	1	111865-0-01		D-49	Bolt 5.95 x 22	1	017762-2-02	
D-21	Spring Hook	2	141472-0-02		D-50	Starting Lever Stopper	1	155500-0-01	
D-22	Spring	1	151951-0-01		D-51	Washer	2	025060-1-32	
D-23	Roller Stud Assembly	1	151949-0-01		D-52	Washer 2-6	2	028060-2-42	
D-24	Nut 6.35	1	150556-0-01		D-53	Bolt 6 x 16	2	018061-6-22	

E. Presser Arm Mechanism



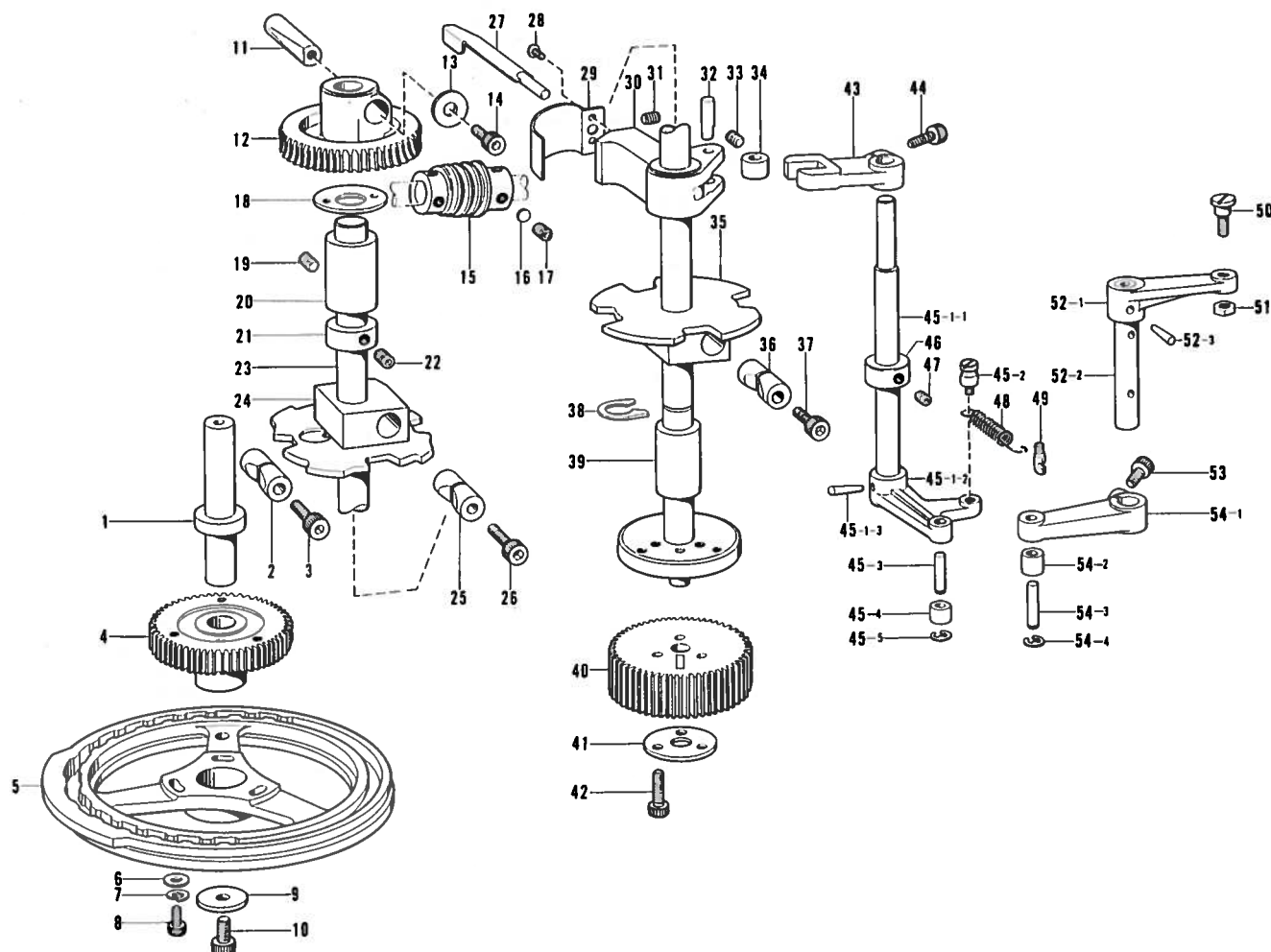
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E- 1	Button Clamp Lever Shaft	1	153838-0-01		E-14-13	Button Clamp Plate	1	115269-0-01	
E- 2	Button Clamp Lifting Lever	1	153836-0-01		E-14-14	Screw 3.57 x 8	2	009670-8-12	
E- 3	Bracket	1	153835-0-02		E-14-15	Nut 3.57	1	115162-0-01	
E- 4	Washer 6	2	025060-2-32		E-14-16	Pin	2	115156-0-01	
E- 5	Bolt 6 x 20	2	018062-0-22		E-14-17	Screw 4.76	2	115158-0-01	
E- 6	Screw 5.95 x 6	1	014760-6-22		E-14-18	Spring	1	115163-0-01	
E- 7	Screw	1	115148-1-01		E-15	Button Clamp Holder	1	153830-0-02	
E- 8	Spring	1	115147-0-01		E-16	Bolt 5.95 x 12	2	017761-2-12	
E- 9	Tension Control Nut	2	146994-0-01		E-17	Washer 6	2	025060-2-32	
E-10	Screw 5.95 x 6	1	014760-6-22		E-18	Button Clamp Holder Bracket	1	153834-0-01	
E-11- 1	Button Clamp Holder Hook	1	151969-0-01	E-11 Button Clamp Holder Assembly 151968-0-01	E-19	Button Clamp Holder Shaft	1	153827-0-01	
E-11- 2	Roller	2	107744-0-01		E-20	Screw 4.37 x 6	2	014680-6-22	
E-11- 3	Washer	1	153484-0-01		E-21	Screw	2	153057-0-02	
E-11- 4	Nut 4.37	2	105234-0-03		E-22	Bolt 3.57 x 6.5	2	513926-0-01	
E-12	Bolt 4.76 x 14	2	017711-4-12		E-23	Washer 3.5	2	025350-1-32	
E-13	Washer	2	146354-0-01		E-24	Spring Holder Plate	1	153837-0-01	
E-14- 1	Screw 3.57	1	115161-0-01		E-25	Spring 0.8	1	153839-0-01	
E-14- 2	Screw 4.37	1	115165-0-01		E-26	Feed Plate 4.8	1	153832-1-01	
E-14- 3	Button Clamp Adjusting Plate	1	115164-0-01		E-27	Felt	1	153035-0-00	
E-14- 4	Screw 4.37	1	115166-0-01		E-28	Tack Width Shaft	1	152759-0-01	
E-14- 5	Button Clamp Bracket	1	115151-0-00	E-14 Button Clamp (C) Assembly 156107-0-01	E-29	Feed Guide Plate	1	152766-0-01	
E-14- 6	Screw 4.37 x 4.5	2	009689-4-12		E-30	Screw 4.37	8	145318-0-01	
E-14- 7	Spring (L)	1	150398-0-01		E-31- 1	Bushing	1	141331-0-01	E-31 Feed Guide Assembly 152769-0-01
E-14- 8	Spring Pin AW2.5	2	047250-6-42		E-31- 2	Bushing	1	152773-0-01	
E-14- 9	Button Clamp (Left)	1	156105-0-01		E-31- 3	Feed Guide	1	152771-0-00	
E-14-10	Button Clamp (Middle)	1	150402-0-01		E-31- 4	Washer	2	152771-0-00	
E-14-11	Spring (R)	1	150401-0-01		E-32	Steel Ball 3/16	2	071047-6-50	
E-14-12	Button Clamp (Right)	1	156104-0-01		E-33	Washer	2	152772-0-01	

F. Feed Mechanism



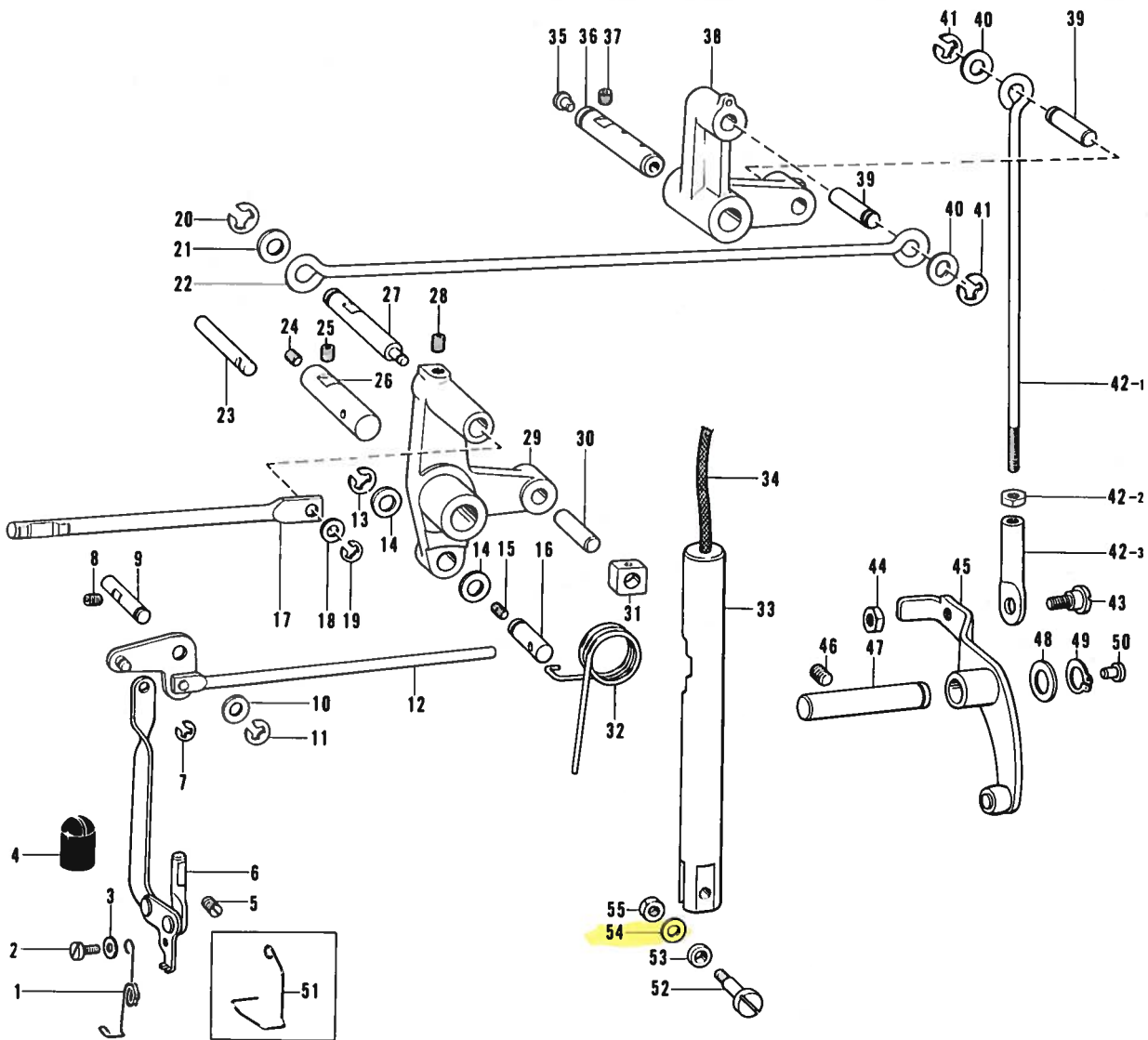
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F- 1	Tack Length Lever	1	152742-0-01		F-18	Washer 18	1	152756-0-01	
F- 2-1	Tack Length Slide Block	1		F-2	F-19	Stop Ring C18	1	048180-1-42	
F- 2-2	Tack Length Slide Block Pin	1		Tack Length Slide Block Assembly 153041-0-01	F-20	Sleeve	1	152725-0-00	
F- 3	Wick	1	153926-0-01		F-21	Bolt 6 x 30	1	018063-0-22	
F- 4	Screw 4.37	1	151602-0-02		F-22	Stop Ring C18	1	048180-1-42	
F- 5-1	Tack Length Regulator Lever	1		F-5	F-23	Washer 18	1	152756-0-01	
F- 5-2	Bolt 8 x 20	1	018082-0-22	Tack Length Regulator Lever Assembly 153820-1-01	F-24-1	Tack Width Lever	1		F-24
F- 6	Screw 5.95 x 6	1	014760-6-22		F-24-2	Tack Width Indicator	1		Tack Width Lever Assembly 154174-0-01
F- 7	Bushing	1	152745-0-01		F-24-3	Pin	2		
F- 8	Screw 3.18 x 5	1	001660-5-12		F-25	Washer 18	1	152756-0-01	
F- 9	Washer 3	1	025030-1-32		F-26	Tack Width Lever Shaft	1	152760-0-01	
F-10	Tack Length Indicator	1	153826-0-01		F-27	Screw 5.95 x 6	1	014760-6-22	
F-11	Nut	1	152750-0-01		F-28	Screw 5.95 x 6	1	014760-6-22	
F-12	Washer	1	152749-0-01		F-29	Nut	1	152750-0-01	
F-13-1	Tack Regulator Shaft	1		F-13	F-30	Washer	1	152749-0-01	
F-13-2	Slide Block	1		Tack Regulator Shaft Assembly 153042-0-01	F-31-1	Tack Regulator Shaft	1		F-31
F-14	Tack Length Lever	1	152752-0-01		F-31-2	Slide Block	1		Tack Regulator Shaft Assembly 153042-0-01
F-15-1	Roller 6.35	1		F-15	F-32	Tack Width Regulator Lever	1	153823-0-01	
F-15-2	Roller 12.7	1		Cam Roller Assembly (A) 153988-0-01	F-33	Bushing	1	152745-0-01	
F-16	Screw 5.95 x 6	1	014760-6-22		F-34	Screw 5.95 x 6	1	014760-6-22	
F-17	Tack Length Lever Shaft	1	152755-0-01		F-35	Tack Width Lever	1	153824-0-01	
					F-36-1	Roller 8.72	1		F-36
					F-36-2	Roller 6.35	1		Cam Roller Assembly 153989-0-01
					F-37	Screw 5.95 x 6	1	014760-6-22	
					F-38	Bolt 8 x 20	1	018082-0-22	

G. Vertical Shaft Mechanism



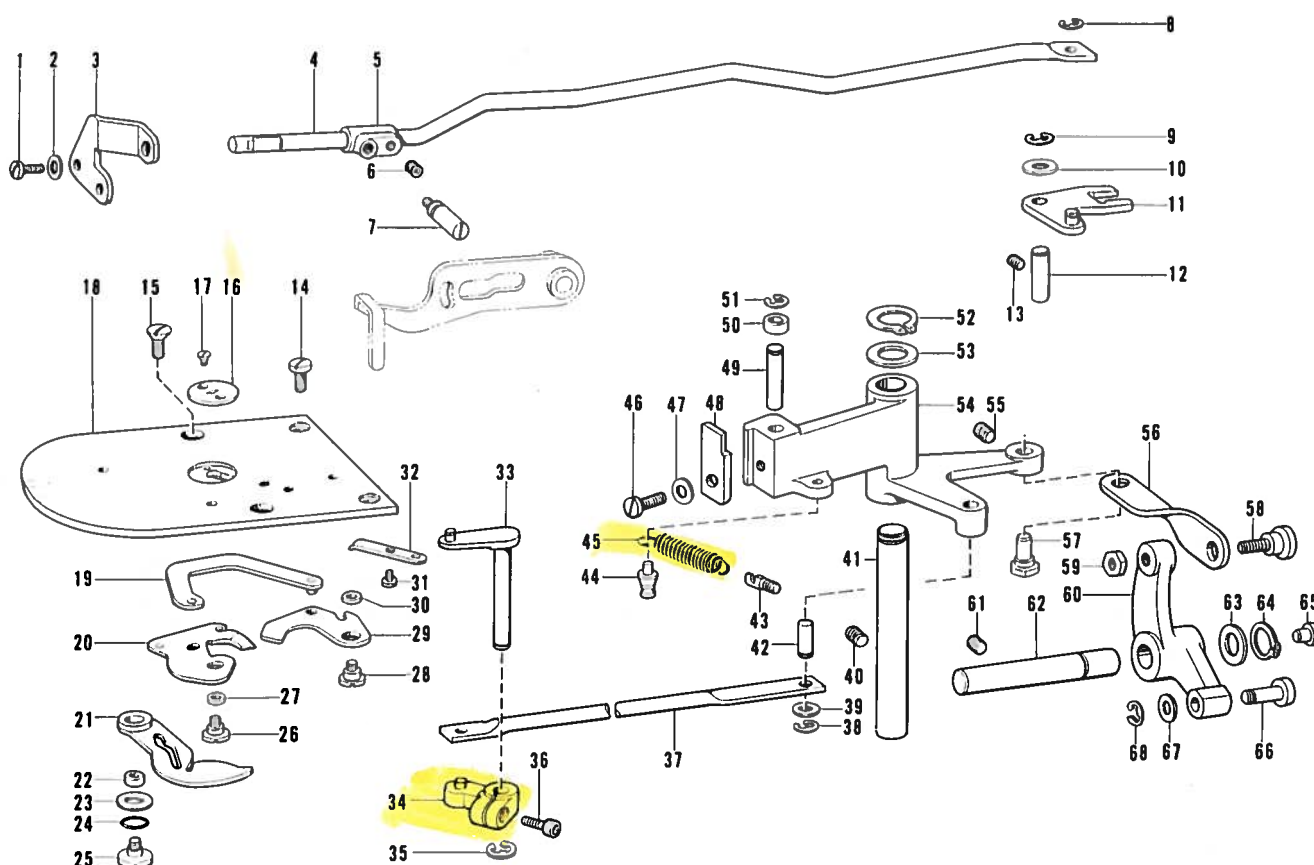
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G- 1	Tack Length Feed Cam Shaft	1	152724-0-01		G-34	Roller	1	152914-0-01	
G- 2	Sleeve	1	152725-0-00		G-35	Knife Cam	1		
G- 3	Bolt 6 x 30	1	018063-0-22		G-36	Sleeve	1	152725-0-00	
G- 4	Change Gear 28C	1	152720-0-00		G-37	Bolt 6 x 30	1	018063-0-22	
G- 5	Feed Cam	1			G-38	Stop Ring	1	152723-0-01	
G- 6	Washer	3	109893-0-02		G-39	Vertical Shaft Bushing (D)	1	152712-0-01	
G- 7	Washer 2-6	3	028060-2-42		G-40	Change Gear 28W	1	152719-0-00	
G- 8	Bolt 6 x 20	3	018062-0-22		G-41	Washer	1	153104-0-01	
G- 9	Washer 8	1	152728-0-01		G-42	Bolt 6 x 22	3	018062-2-22	
G-10	Bolt 8 x 15	1	151163-0-01		G-43	Roller Holder Lever	1	152734-0-01	
G-11	Sleeve	1	152709-0-00		G-44	Bolt 6 x 16	1	018061-6-22	
G-12	Worm Wheel	1			G-45-1-1	Roller Holder Lever Shaft	1		G-45-1 Roller Holder Lever Shaft Assembly 153332-0-01
G-13	Washer	1	152710-0-01		G-45-1-2	Roller Holder Cam Lever	1		
G-14	Bolt 6 x 20	1	018062-0-22		G-45-1-3	Taper Pin 3 x 20	1	046302-0-20	
G-15	Worm	1			G-45-2	Spring Hook	1	155337-0-01	G-45 Roller Holder Cam Lever Assembly 152735-1-01
G-16	Washer	1	147151-0-00		G-45-3	Pin	1	152739-0-01	
G-17	Screw 5.95	6	152718-0-01		G-45-4	Roller	1	153195-0-01	
G-18	Washer	1	152713-0-01		G-45-5	Stop Ring E4	1	048040-3-42	
G-19	Screw 5.95 x 6	1	014760-6-22		G-46	Collar	1	110027-0-01	
G-20	Vertical Shaft Bushing (U)	1	152711-0-00		G-47	Screw 5.95 x 6	2	014760-6-22	
G-21	Collar	1	141816-0-01		G-48	Spring	1	155336-0-01	
G-22	Screw 6.35 x 6	2	014770-6-22		G-49	Spring Hook	1	141334-0-01	
G-23	Vertical Shaft Assembly	1	152715-0-01		G-50	Screw 5.95	1	151907-0-01	
G-24	Clutch Cam	1			G-51	Nut 5.95	1	150553-0-01	
G-25	Sleeve	1	152725-0-00		G-52-1	Clutch Actuating Lever	1		G-52 Clutch Actuating Lever Assembly 151915-0-01
G-26	Bolt 6 x 30	1	018063-0-22		G-52-2	Clutch Actuating Lever Shaft	1		
G-27	Stitch Control Lever	1	153845-0-01		G-52-3	Taper Pin	1	107030-0-01	
G-28	Screw 3.57 x 4	2	009670-4-12		G-53	Bolt 6 x 20	1	018060-0-22	
G-29	Cover	1	153141-0-01		G-54-1	Clutch Cam Lever	1		G-54 Clutch Cam Lever Assembly 151939-0-01
G-30	Roller Holder	1	152731-0-01		G-54-2	Roller	1	152914-0-01	
G-31	Screw 4.76	1	013710-7-12		G-54-3	Roller Stud	1	152913-0-01	
G-32	Pin	1	152732-0-01		G-54-4	Stop Ring E4	1	048040-3-42	
G-33	Screw 4.76	1	013710-7-12						

H. Work Clamp and Thread Wiper Mechanism



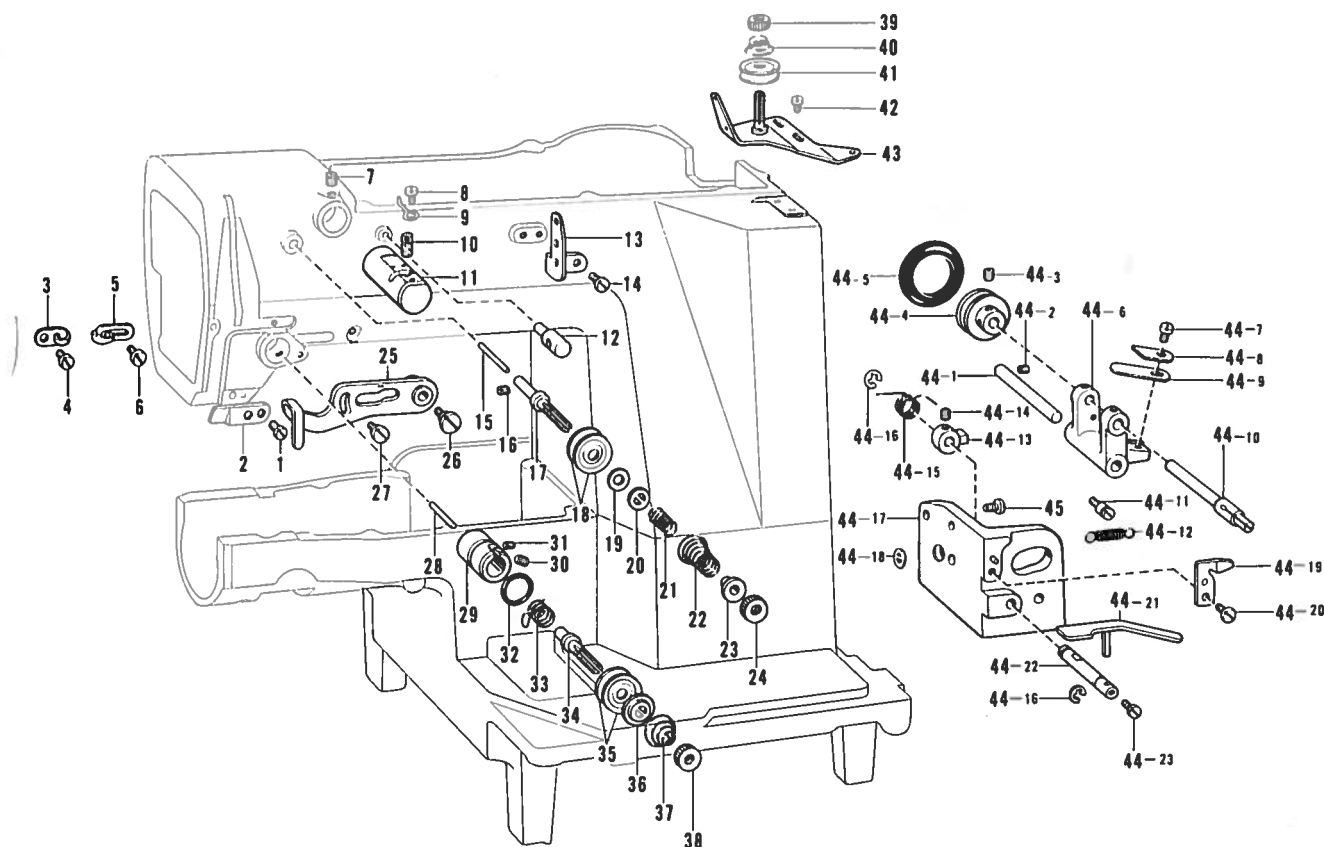
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H-1	Thread Wiper	1			H-30	Tack Length Slide Block Pin	1	152744-0-01	
H-2	Screw 3.57	1	009670-5-12		H-31	Needle Bar Guide Slide Block	1	102630-0-01	
H-3	Washer 3.5	1	025350-1-32		H-32	Spring	1	152800-2-01	
H-4	Oil Cap	1	152827-0-01		H-33	Work Clamp Lifting Rod	1	153831-0-01	
H-5	Screw 4.76	1	013710-7-12		H-34	Wick 4 x 4	1	152968-0-01	
H-6	Thread Wiper Link Assembly	1	152823-0-01		H-35	Cap for Oil Inlet	1	111865-0-01	
H-7	Stop Ring E3	1	048030-3-42		H-36	Lifting Lever Shaft	1	152807-0-01	
H-8	Screw 4.37 x 6	1	014680-6-22		H-37	Screw 5.95 x 6	1	014760-6-22	
H-9	Thread Wiper Shaft	1	152822-0-01		H-38	Lifting Lever Shaft	1	152805-0-01	
H-10	Washer 6.35	1	025770-2-32		H-39	Connecting Lever Shaft (B)	2	152806-0-01	
H-11	Stop Ring E4	1	048040-3-42		H-40	Washer	2	107153-0-02	
H-12	Thread Wiper Rod Assembly	1	152816-0-01		H-41	Stop Ring E6	2	048060-3-42	
H-13	Stop Ring E6	1	048060-3-42		H-42-1	Connecting Rod	1	154332-0-01	H-42 Connecting Rod Assembly 152808-1-01
H-14	Washer	2	116629-0-01		H-42-2	Nut 6.35	1	150555-0-01	
H-15	Screw 4.37 x 6	1	014680-6-22		H-42-3	Joint	1	154333-0-01	
H-16	Thread Wiper Rod Shaft	1	152815-0-01		H-43	Screw 6.35	1	141583-0-01	
H-17	Tension Release Pin	1	152874-0-01		H-44	Nut 6.35	1	150555-0-01	
H-18	Washer	1	140208-0-01		H-45	Connecting Lever	1	152811-0-01	
H-19	Stop Ring E4	1	048040-3-42		H-46	Screw 5.95 x 6	1	014760-6-22	
H-20	Stop Ring E6	1	048060-3-42		H-47	Driving Shaft	1	152924-0-01	
H-21	Washer	1	107153-0-02		H-48	Horizontal Feed Crank Ring	1	142628-0-01	
H-22	Work Clamp Lifter Rod (A)	1	152803-0-01		H-49	Stop Ring C11	1	048110-1-42	
H-23	Pin	1	152801-0-01		H-50	Cap for Oil Inlet	1	111865-0-01	
H-24	Screw 5.95	1	013760-6-12		H-51	Finger Guard	1		
H-25	Screw 5.95 x 6	1	014760-6-22		H-52	Screw	1	153828-0-01	
H-26	Work Clamp Lifter Lever Shaft	1	152799-0-01		H-53	Roller	1	107744-0-01	
H-27	Work Clamp Lifter Rod Shaft (A)	1	152802-0-01		H-54	Washer 4.76	1	153484-0-01	
H-28	Screw 5.95 x 6	1	014760-6-22		H-55	Nut 4.37	2	105234-0-03	
H-29	Work Clamp Lifter Lever	1	152798-0-01						

J. Thread Trimming and Thread Nipper Mechanism



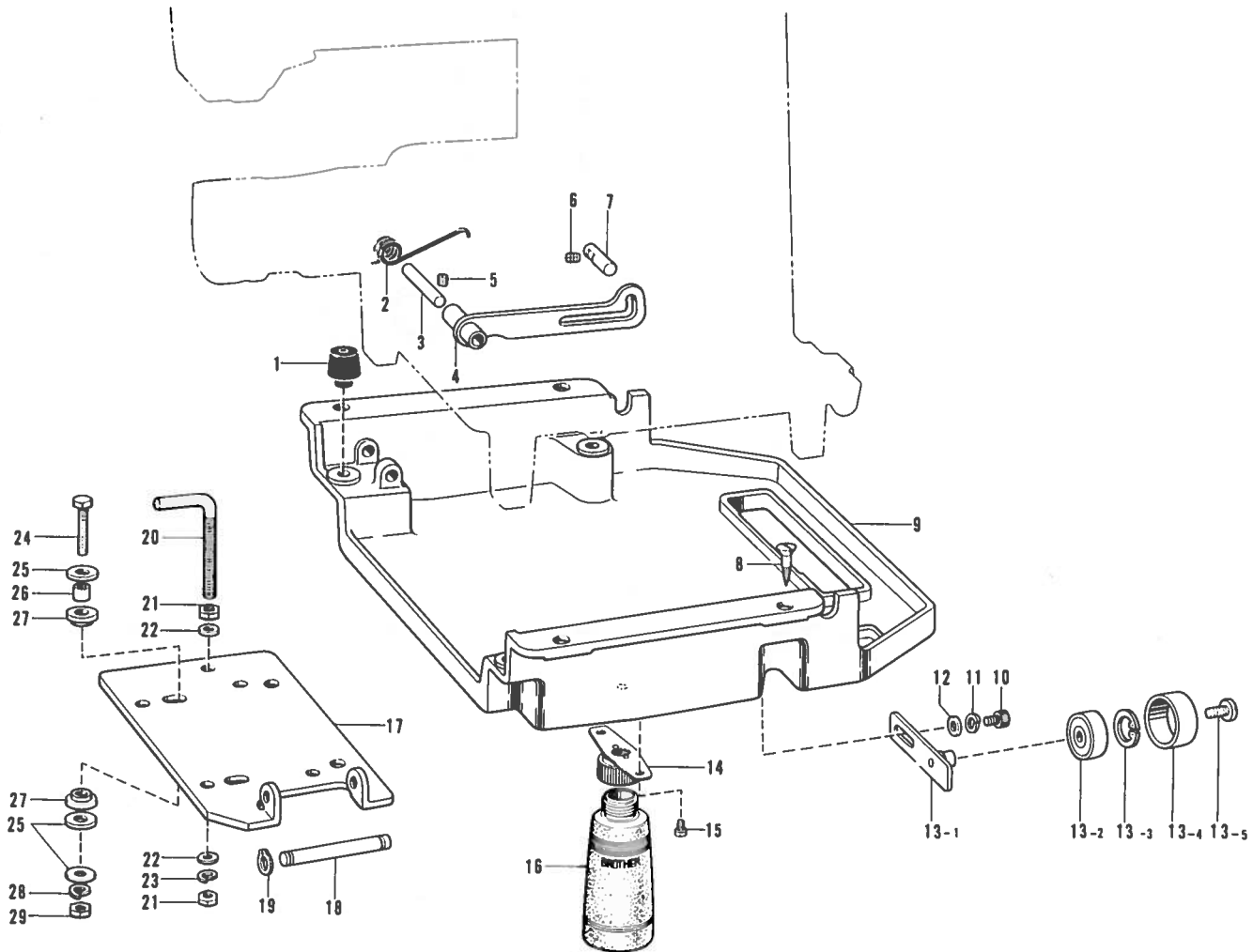
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J- 1	Screw 3.57 x 10	2	009671-0-12		J-35	Stop Ring E5	1	048050-3-42	
J- 2	Washer 3.5	2	025350-3-32		J-36	Bolt 4.37 x 10	1	018681-0-22	
J- 3	Tension Release Bar Plate	1	152926-0-01		J-37	Connecting Rod	1	152892-0-01	
J- 4	Tension Release Bar	1	152925-1-01		J-38	Stop Ring E4	1	048040-3-42	
J- 5	Thread Take-up Guide	1	152886-0-01		J-39	Washer	1	140208-0-01	
J- 6	Screw 4.37 x 4	1	014680-4-22		J-40	Screw 5.95 x 6	1	014760-6-22	
J- 7	Guide Stud	1	152887-0-01		J-41	Shaft	1	152916-0-01	
J- 8	Stop Ring E4	1	048040-3-42		J-42	Pin	1	152919-0-01	
J- 9	Stop Ring E5	1	048050-3-42		J-43	Spring Hook	1	141334-0-01	
J-10	Washer 6.35	1	025770-2-32		J-44	Spring Hook	1	154789-0-01	
J-11	Tension Release Lever	1	152988-0-01		J-45	Spring	1	154788-0-01	
J-12	Tension Release Lever Shaft	1	152929-0-01		J-46	Screw 5.95 x 14	1	009761-4-12	
J-13	Screw 5.95 x 6	1	014760-6-22		J-47	Washer 6	1	025060-1-32	
J-14	Screw 4.37	2	153208-0-02		J-48	Cam Lever Claw	1	152915-0-01	
J-15	Screw 4.37	2	100032-0-04		J-49	Roller Stud	1	152913-0-01	
J-16	Needle Hole Plate (B)	1	156150-0-01		J-50	Roller	1	152914-0-01	
J-17	Screw 2.38	2	100360-0-03		J-51	Stop Ring E4	1	048040-3-42	
J-18	Needle Plate (S)	1	152995-0-01		J-52	Stop Ring C12	1	048120-1-42	
J-19	Knife Connecting Rod Assembly	1	152897-1-01		J-53	Washer	1	152917-0-01	
J-20	Movable Knife Assembly (B)	1	154176-0-01		J-54	Cam Lever	1	152912-0-01	
J-21	Thread Retainer (A)	1	152906-1-01		J-55	Screw 5.95 x 6	1	014760-6-22	
J-22	Collar	1	153597-0-01		J-56	Thread Trimming Link	1	152921-0-01	
J-23	Washer	1	153596-0-01		J-57	Stud	1	152920-0-01	
J-24	Packing P8	1	081008-0-70		J-58	Screw 5.95	1	151907-0-01	
J-25	Screw 4.37	1	153598-0-01		J-59	Nut 5.95	1	150553-0-01	
J-26	Screw 4.37	1	152904-0-01		J-60	Thread Trimming Lever	1	152922-0-01	
J-27	Collar	1	153219-0-01		J-61	Screw 5.95 x 6	1	014760-6-22	
J-28	Screw 4.37	1	153222-0-01		J-62	Driving Shaft	1	153482-0-01	
J-29	Knife Arm (C)	1	152981-0-01		J-63	Horizontal Feed Crank Ring	1	142628-0-01	
J-30	Collar	1	153220-0-01		J-64	Stop Ring C11	1	048110-1-42	
J-31	Screw 2.38	2	111140-0-02		J-65	Cap for Oil Inlet	1	111865-0-01	
J-32	Fixed Knife	1	152905-0-01		J-66	Roller	1	152923-0-01	
J-33	Thread Trimming Arm (B)	1	152893-1-01		J-67	Washer	1	112468-0-01	
J-34	Thread Trimming Arm (A) Assembly	1	152896-0-01		J-68	Stop Ring E5	1	048050-3-42	

K. Bobbin Winder and Threading Mechanism



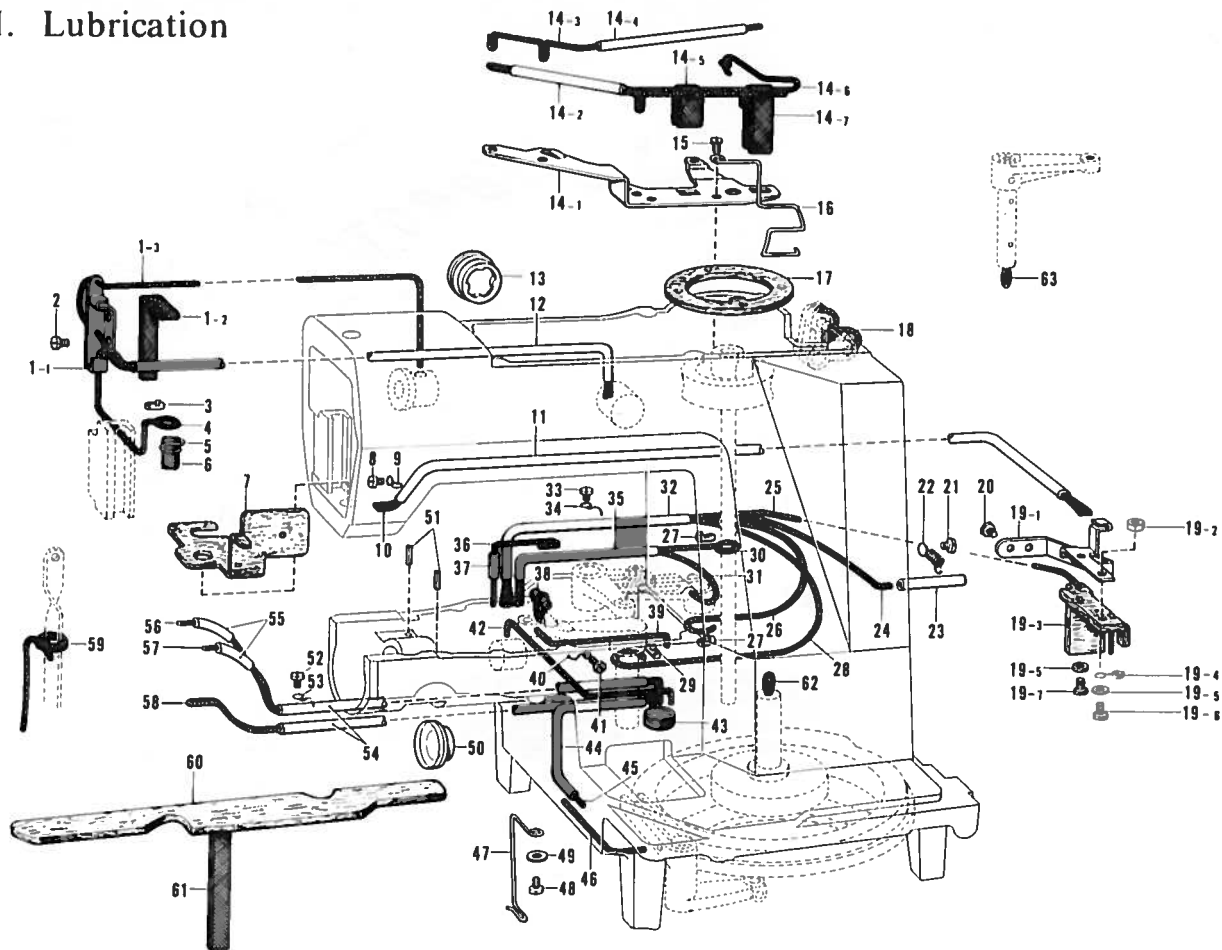
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
K- 1	Screw 4.76 x 7	1	009710-7-12		K-35	Tension Disc	2	145446-0-01	
K- 2	Arm Thread Guide	1	152869-0-01		K-36	Presser for Tension Disc	1	100134-0-01	
K- 3	Arm Thread Guide	1	152870-0-01		K-37	Tension Spring	1	104525-0-01	
K- 4	Screw 3.57 x 6	1	009670-6-12		K-38	Tension Control Nut	1	100136-0-01	
K- 5	Arm Thread Guide	1	113316-0-01		K-39	Tension Control Nut	1	100136-0-01	
K- 6	Screw 3.57	1	112751-0-03		K-40	Tension Spring	1	104525-0-01	
K- 7	Screw 5.95	1	013760-6-12		K-41	Tension Disc	2	145446-0-01	
K- 8	Screw 3.57 x 4	1	009670-4-12		K-42	Screw 4.37 x 10	2	009681-0-12	
K- 9	Needle Cooler Thread Guide	1	152884-0-01		K-43	Lower Thread Tension Bracket Assembly	1	152945-0-01	
K-10	Felt 7 x 15.5	1	152883-0-00		K-44- 1	Bobbin Winder Lever Shaft	1	152934-0-01	K-44 Bobbin Winder Assembly 152982-1-01
K-11	Needle Cooler Assembly	1	152881-0-01		K-44- 2	Screw 4.37	1	102716-0-04	
K-12	Upper Thread Guide Bar	1	153049-0-01		K-44- 3	Screw 4.37	2	102716-0-04	
K-13	Thread Retainer	1	152889-0-01		K-44- 4	Bobbin Winder Wheel	1	154528-0-01	
K-14	Screw 3.57 x 6	2	009670-6-12		K-44- 5	Rubber Ring	1	120448-0-01	
K-15	Tension Release Pin	1	152876-0-01		K-44- 6	Bobbin Winder Lever	1	152984-0-01	
K-16	Screw 4.37	1	151601-0-02		K-44- 7	Screw 3.57 x 7	1	009670-7-12	
K-17	Tension Stud	1	152875-0-01		K-44- 8	Washer	1	152937-0-01	
K-18	Tension Disc	2	145446-0-01		K-44- 9	Plate Spring	1	152936-0-01	
K-19	Washer	1	153138-0-01		K-44-10	Bobbin Winder Shaft	1	152933-0-01	
K-20	Tension Disc Washer	1	152877-0-01		K-44-11	Sustainer	1	141550-0-01	
K-21	Tension Spring	1	152878-0-01		K-44-12	Spring	1	152939-0-01	
K-22	Tension Spring	1	152879-1-01		K-44-13	Claw for Bobbin Winder	1	142566-0-01	
K-23	Washer	1	152880-0-01		K-44-14	Screw 4.37	2	151601-0-01	
K-24	Tension Control Nut	1	100136-0-01		K-44-15	Spring	1	152941-0-01	
K-25	Thread Take-up Lever	1	152888-0-01		K-44-16	Stop Ring E5	2	048050-3-42	
K-26	Screw 6.35	1	141528-0-01		K-44-17	Bobbin Winder Bracket	1	152983-0-01	
K-27	Screw 4.76	1	115077-0-03		K-44-18	Spring Hook	1	115138-0-01	
K-28	Tension Release Pin	1	152873-0-01		K-44-19	Knife	1	152938-0-01	
K-29	Tension Bracket	1	152872-0-01		K-44-20	Screw 4.37 x 7	1	009680-7-12	
K-30	Screw 5.95	1	103950-0-02		K-44-21	Bobbin Presser	1	152935-0-01	
K-31	Screw 3.57	1	100402-0-04		K-44-22	Claw Stud for Bobbin Winder	1	152940-0-01	
K-32	Packing	1	114294-0-01		K-44-23	Screw 3.57 x 7	1	009670-7-12	
K-33	Thread Take-up Spring	1	145519-0-01		K-45	Screw 5.95 x 14	2	009761-4-12	
K-34	Tension Stud	1	100398-0-01						

L. Oil Pan



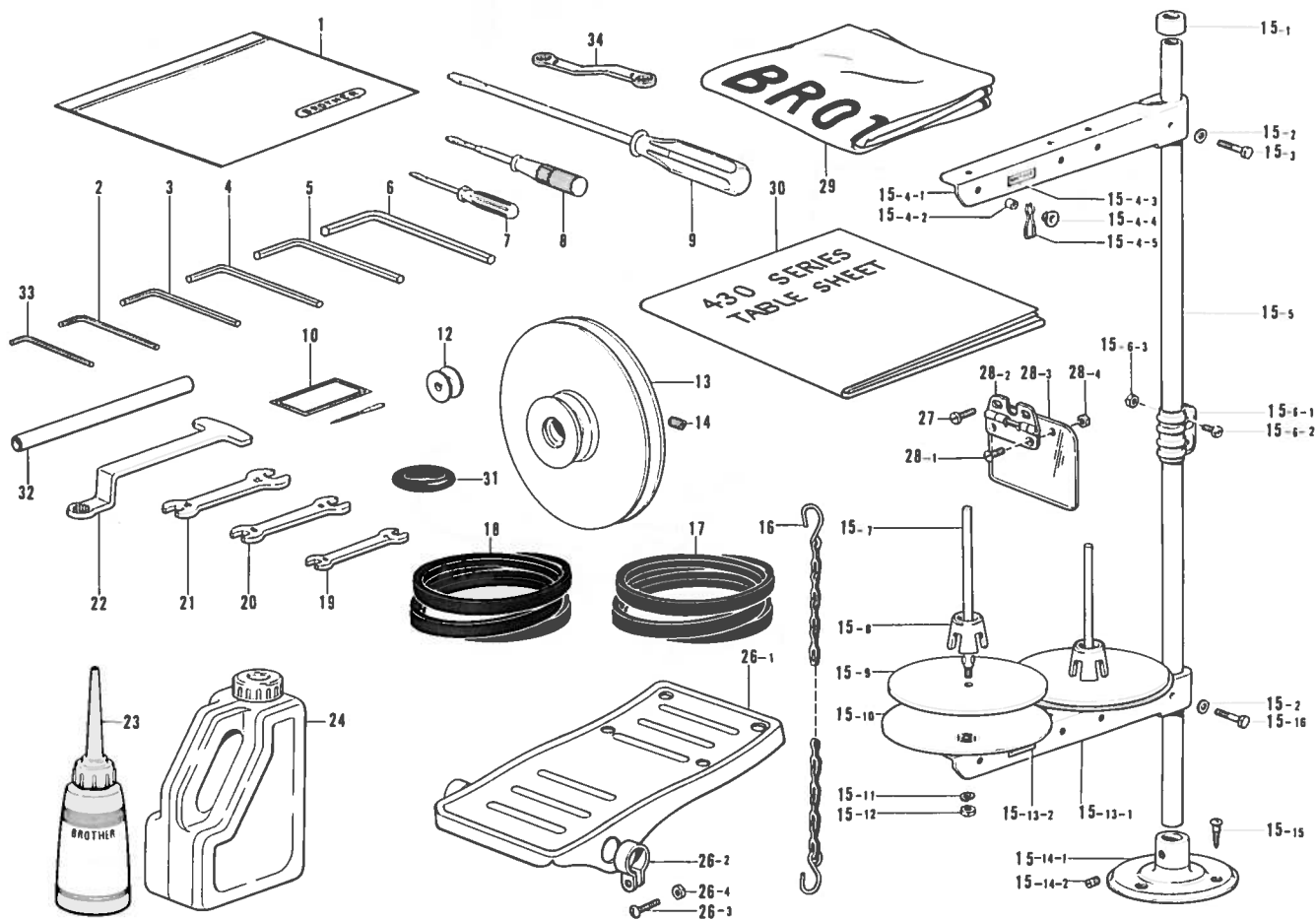
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L- 1	Bed Cushion	4	152860-0-01		L-14	Dust Oiler Supporter	1	154465-0-01	
L- 2	Head Supporter Lever Spring	1	152859-0-01		L-15	Screw 4.76 x 6	2	009710-6-12	
L- 3	Head Supporter Lever Shaft	1	152858-0-01		L-16	Oiler	1	114486-0-01	
L- 4	Head Supporter Lever	1	152857-0-01		L-17	Motor Base Plate	1	152861-1-01	
L- 5	Screw 4.76	1	013719-4-12		L-18	Motor Base Plate Shaft	1	152862-0-01	
L- 6	Screw 5.95	1	013760-6-12		L-19	Stop Ring C10	2	048100-1-42	
L- 7	Pin	1	152866-0-01		L-20	Bolt M10	1	152865-0-01	
L- 8	Screw 6.2 x 32	4	106030-0-01		L-21	Nut 10	2	021100-2-02	
L- 9	Oil Pan	1	154738-0-01		L-22	Washer 10	2	025100-1-32	
L-10	Bolt 8 x 12	1	018081-2-22		L-23	Washer 2-10	1	028100-2-42	
L-11	Washer 2-8	1	028080-2-42		L-24	Bolt 6 x 25	4	017062-5-03	
L-12	Washer 8	1	025080-2-32		L-25	Washer 7.14	12	025800-3-33	
L-13-1	Tension Pulley Plate	1			L-26	Cushion Collar	4	152863-0-01	
L-13-2	Ball Bearing 6201VV	1			L-27	Cushion	8	152864-0-00	
L-13-3	Stop Ring C32	1	048320-2-42		L-28	Washer 2 6	4	028060-2-42	
L-13-4	Tension Pulley	1			L-29	Nut 6	4	021060-1-02	
L-13-5	Screw 6.35	1	141860-0-01						
				L-13 Tension Pulley Assembly 152852-1-01					

M. Lubrication



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	Wick Supporter	1	152959-0-01	M-1 Wick Supporter Assembly 152958-0-01	M-26	Wick 4 x 4	1	152965-0-01	
M- 1-2	Wick	1	152955-0-01		M-27	Wick Supporter	2	104567-0-01	
M- 1-3	Wick 4 x 4	1	152956-0-01		M-28	Wick 4 x 4	1	153922-0-01	
M- 2	Screw 4.37 x 6	1	009680-6-12		M-29	Wick Supporter	1	104567-0-01	
M- 3	Wick Supporter	1	104567-0-01		M-30	Wick 6 x 6	1	152964-0-01	
M- 4	Wick 4 x 4	1	152956-0-01		M-31	Wick 6 x 6	1	152964-0-01	
M- 5	Wick Supporter	1	152962-0-01		M-32	Oil Tube	1	148921-0-00	
M- 6	Wick	1	152960-0-01		M-33	Screw 3.57 x 5	1	009670-5-12	
M- 7	Felt	1	153530-0-01		M-34	Cord Supporter	1	152969-0-01	
M- 8	Screw 3.57 x 5	1	009670-5-12		M-35	Oil Tube	1	147745-0-00	
M- 9	Cord Supporter	1	117150-0-01	M-14 Wick Supporter Assembly 152949-0-01	M-36	Wick 4 x 4	1	152974-0-01	
M-10	Wick	1	152992-0-01		M-37	Oil Tube	1	148735-0-01	
M-11	Oil Tube	1	146375-0-00		M-38	Felt	1	153924-0-01	
M-12	Oil Tube	1	144694-0-01		M-39	Wick 4 x 4	1	153921-0-01	
M-13	Oil Gauge Window	1	152948-0-01		M-40	Cord Supporter	1	117150-0-01	
M-14-1	Wick Supporter	1	152950-0-01		M-41	Screw 3.57 x 5	1	009670-5-12	
M-14-2	Oil Tube	1	140423-0-00		M-42	Wick 4 x 4	1	152973-0-01	
M-14-3	Wick 6 x 6	1	153919-0-01		M-43	Felt	1	113006-0-01	
M-14-4	Oil Tube	1	147745-0-00		M-44	Oil Tube	1	147745-0-00	
M-14-5	Felt	1	152952-0-01		M-45	Wick 6 x 6	1	152953-0-01	
M-14-6	Wick 6 x 6	1	153918-0-01	M-19 Felt Supporter Assembly 152961-0-01	M-46	Wick 4 x 4	1	152985-0-01	
M-14-7	Felt	1	152951-0-01		M-47	Wick Supporter	1	153763-0-01	
M-15	Screw 4.37 x 10	2	009681-0-12		M-48	Screw 3.57 x 5	1	009670-5-12	
M-16	Felt Supporter	1	153528-0-01		M-49	Washer	1	105248-0-01	
M-17	Felt	1	153529-0-01		M-50	Oil Gauge Window	1	152948-0-01	
M-18	Wick 6 x 6	1	153927-0-01		M-51	Pin	2	047251-6-40	
M-19-1	Felt Supporter	1	152966-0-01		M-52	Screw 3.57 x 5	1	009670-5-12	
M-19-2	Nut 3.57	1	021670-2-02		M-53	Cord Supporter	1	152969-0-01	
M-19-3	Felt	1	152967-0-01		M-54	Oil Tube	2	140423-0-00	
M-19-4	Tube Stopper	1	141692-0-01		M-55	Oil Tube	2	148735-0-01	
M-19-5	Washer 3.5	3	025350-3-32		M-56	Wick 4 x 4	1	152972-0-01	
M-19-6	Screw 3.57 x 14	1	009671-4-12		M-57	Wick 4 x 4	1	153920-0-01	
M-19-7	Screw 3.57 x 8	2	009670-8-12		M-58	Wick 4 x 4	1	152971-0-01	
M-20	Screw 3.57 x 6	2	009670-6-12		M-59	Wick 4 x 4	1	152973-0-01	
M-21	Screw 4.37 x 8	1	009680-8-12		M-60	Felt	1	153531-0-01	
M-22	Tube Supporter	1	152978-0-01		M-61	Wick	1	153562-0-01	
M-23	Oil Tube	1	148735-0-01		M-62	Wick 6 x 6	1	152980-0-01	
M-24	Wick 4 x 4	1	153922-0-01		M-63	Wick 6 x 6	1	152980-0-01	
M-25	Wick 4 x 4	1	152963-0-01						

Z. Accessories



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z- 1	Vinyl Bag		122991-0-01		Z-15-13-1	Spool Holder 2			Z-15-13 Spool Holder Assembly 150177-0-01
Z- 2	Spanner 2		142002-0-01		Z-15-13-2	Name Plate			
Z- 3	Spanner 3		142721-0-01		Z-15-14-1	Cotton Stand Base		150189-0-01	Z-15-14 Cotton Stand Base Assembly 150139-0-01
Z- 4	Spanner 4		118064-0-01		Z-15-14-2	Screw 6 x 7		150181-1-01	
Z- 5	Spanner 5		147487-0-01		Z-15-15	Screw 4.5 x 22		031452-2-03	
Z- 6	Spanner 6		115157-0-01		Z-15-16	Bolt 5 x 28		017502-8-03	
Z- 7	Screw Driver 1.9 x 52		142443-0-01		Z-16	Chain		149247-0-01	
Z- 8	Screw Driver 3.4 x 70		118837-0-01		Z-17	V Belt (for Low Speed)		082104-8-90	
Z- 9	Screw Driver 5.5 x 190		101572-1-01		Z-18	V Belt (for High Speed)			
Z-10	Needle TQ x I #16 Assembly		115053-4-16		Z-19	Spanner 6 x 7		107779-0-01	
Z-12	Bobbin		145265-0-01		Z-20	Spanner 8 x 9		100887-0-01	
Z-13	Motor Pulley 2000/50				Z-21	Spanner 10 x 12		107780-0-01	
Z-14	Screw 5.95 x 6		014760-6-22		Z-22	Wrench 10		152765-0-01	
Z-15- 1	Cap				Z-23	Oiler		114483-0-01	
Z-15- 2	Washer 5		025050-2-33		Z-24	Oil Tank		154702-0-01	
Z-15- 3	Bolt 5 x 28		017502-8-03		Z-26- 1	Treadle Pedal		117437-1-01	
Z-15- 4-1	Spool Holder 2			Z-15-4 Thread Hanger Assembly 150192-0-01	Z-26- 2	Pedal Stopper		116016-0-01	Z-26 Pedal Assembly 116185-2-01
Z-15- 4-2	Thread Bushing		142990-0-01		Z-26- 3	Screw 4 x 14		001401-4-16	
Z-15- 4-3	Name Plate				Z-26- 4	Nut 4		021400-1-06	
Z-15- 4-4	Thread Hanger				Z-27	Screw 3.57		009670-5-12	
Z-15- 4-5	Thread Guide Spring		150184-0-01		Z-28- 1	Screw 3.57		102538-0-07	Z-28 Eye Guard Assembly
Z-15- 5	Pipe		150172-0-01		Z-28- 2	Eye Guard Hinge Assembly		153102-0-01	
Z-15- 6-1	Joint		150173-0-01	Z-15-6 Joint for Cotton Stand Assembly 2 150106-0-01	Z-28- 3	Eye Guard		153098-0-00	
Z-15- 6-2	Screw 5 x 14		150202-0-01		Z-28- 4	Nut 3.57		106129-0-01	
Z-15- 6-3	Nut 5		021500-1-03		Z-29	Head Cover		144226-0-01	
Z-15- 7	Spool Shaft (B)		150179-0-01		Z-30	Table Sheet		153574-2-01	
Z-15- 8	Spool Cushion		126863-0-00	Z-15 Cotton Stand Assembly 2 150150-0-01	Z-31	Rubber Ring		120448-0-01	
Z-15- 9	Spool Mat		150182-0-00		Z-32	Pipe		154760-0-01	
Z-15-10	Spool Stand Base		150180-0-00		Z-33	Spanner 4		154179-0-01	
Z-15-11	Washer 2-5		028050-2-43		Z-34	Wrench 8 x 9		105343-0-01	
Z-15-12	Nut 5		021500-1-03						

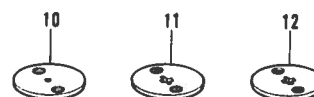
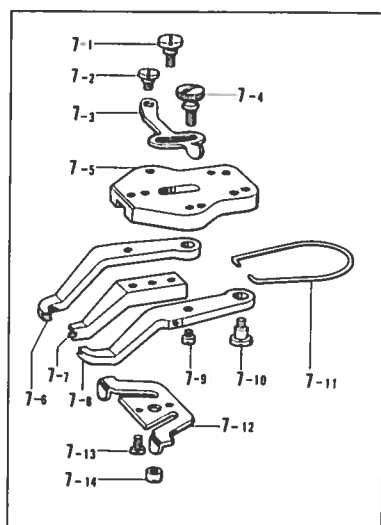
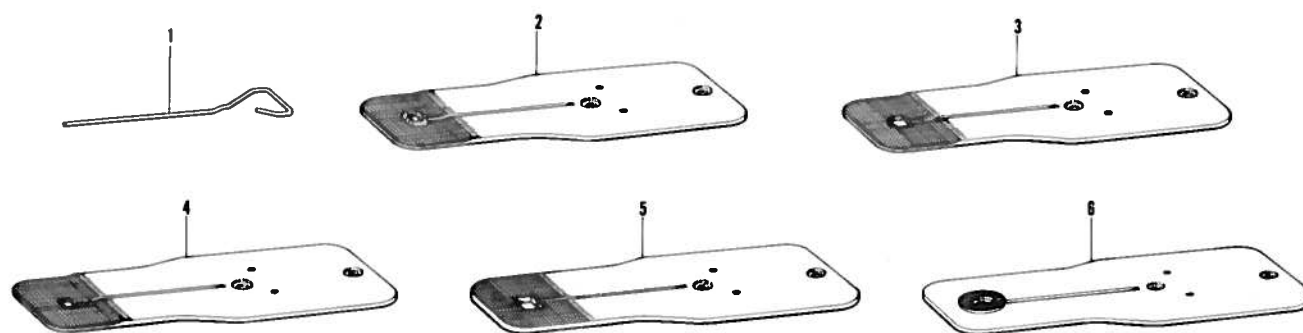
* The details of included accessories are subject to change.

* Änderungen in der Aufstellung der mitgelieferten Zubehörteile sind vorbehalten.

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

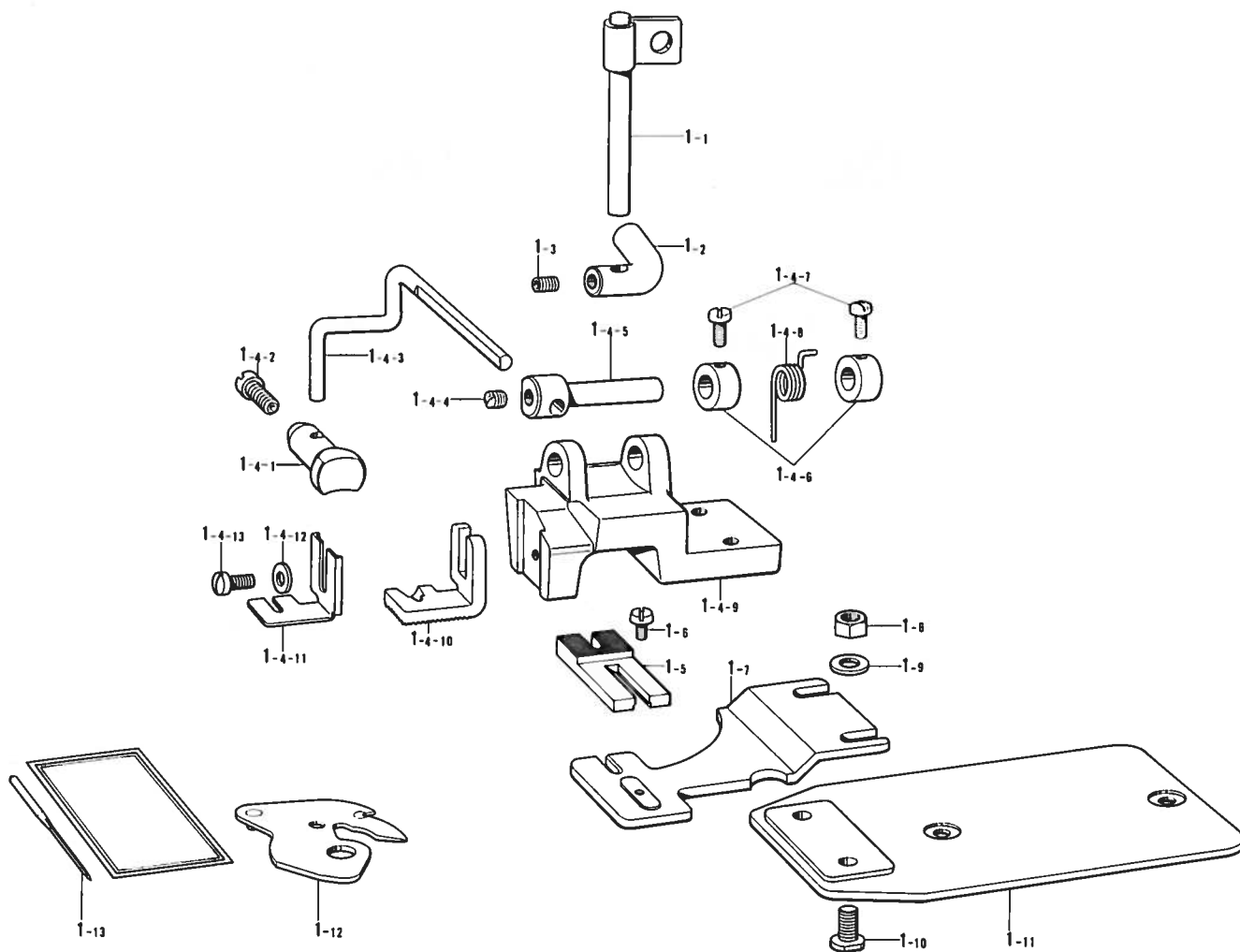
* Los detalles de los accesorios incluidos pueden variar.

a. Special Order Parts



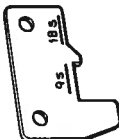
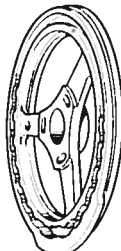
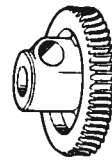
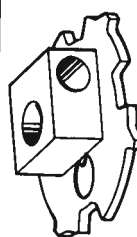
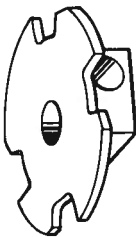
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
a- 1	Spring 1.2	1	153871-0-01		a- 7- 7	Snap Clamp (Middle)	1	118540-0-01	a-7 Snap Button Clamp Assembly 118538-0-01
a- 2	Feed Plate 7	1	153833-1-01		a- 7- 8	Snap Clamp (Right)	1	118539-0-01	
a- 3	Feed Plate 7 (Flat)	1	153870-1-01		a- 7- 9	Pin	2	115156-0-01	
a- 4	Feed Plate 4.8 (Flat)	1	154166-1-01		a- 7-10	Screw 4.76	2	115158-0-01	
a- 5	Feed Plate 8.5 (Flat)	1	154167-1-01		a- 7-11	Spring	1	115163-0-01	
a- 6	Feed Plate	1	154665-0-01		a- 7-12	Button Clamp Plate	1	115269-0-01	
a- 7- 1	Screw 3.57	1	115161-0-01	a-7 Snap Button Clamp Assembly 118538-0-01	a- 7-13	Screw 3.57 x 8	2	009670-8-12	
a- 7- 2	Screw 4.37	1	115165-0-01		a- 7-14	Nut 3.57	1	115162-0-01	
a- 7- 3	Button Clamp Adjusting Plate	1	115164-0-01		a-10	Needle Hole Plate (A)	1	156149-0-01	
a- 7- 4	Screw 4.37	1	115166-0-01		a-11	Needle Hole Plate (C)	1	156151-0-01	
a- 7- 5	Button Clamp Bracket	1	115151-0-00		a-12	Needle Hole Plate (D)	1	156152-0-01	
a- 7- 6	Snap Clamp (Left)	1	118541-0-01						

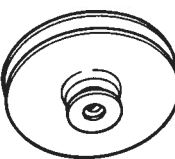
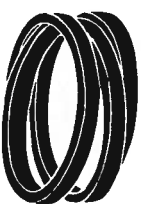
b. Shank Attachment Device (Special order parts)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
b-1- 1	Button Presser Arm Lifter Stud	1	154696-0-01	b-1	b-1- 4-11	Button Clamp (A)	1	142677-0-01	b-1-4
b-1- 2	Button Presser Arm Lifter	1	154695-0-01	Shank Button	b-1- 4-12	Washer	1	102707-0-03	Shank Button
b-1- 3	Screw 4.37 x 4	1	014680-4-22	Device Assembly	b-1- 4-13	Screw 3.57 x 8	1	009670-8-12	Clamp Assembly
b-1- 4- 1	Button Presser	1	142680-0-01	154694-0-01	b-1- 5	Cloth Receiver (Small)	1	142686-0-01	142689-1-01
b-1- 4- 2	Screw 4.37	1	120990-0-01		b-1- 6	Screw 3.57 x 5	1	001670-5-12	
b-1- 4- 3	Button Presser Arm	1	154686-0-01		b-1- 7	Shank Button Feed Plate	1	156336-0-01	
b-1- 4- 4	Screw 4.76	1	013719-4-12		b-1- 8	Nut 4.76	2	021710-2-12	b-1
b-1- 4- 5	Button Presser Stud	1	142681-0-01	b-1-4	b-1- 9	Washer 4.76	2	025710-2-32	Shank Button
b-1- 4- 6	Collar	2	142706-0-01	Shank Button	b-1-10	Screw 4.76	2	154713-0-01	Device Assembly
b-1- 4- 7	Screw 3.57 x 7	2	009670-7-12	Clamp Assembly	b-1-11	Feed Plate Base	1	154697-0-01	154694-0-01
b-1- 4- 8	Spring	1	154685-0-01	142689-1-01	b-1-12	Movable Knife (A)	1	152901-0-01	
b-1- 4- 9	Shank Button Clamp Bracket	1	154684-0-01		b-1-13	Needle TQ x 7 #16 Assembly	1	115040-1-16	
b-1- 4-10	Button Clamp (B)	1	142678-0-01						

DIFFERENT PARTS LIST

Ref. No.	Name of Parts	Sub-class	-2		-3		-4		-7	
			Standard	With Finger Guard & Eye Guard	Standard	With Finger Guard & Eye Guard	Standard	With Finger Guard & Eye Guard	Standard	With Finger Guard & Eye Guard
A-28		Label	153056-0-02		153056-0-03		153056-0-04		153056-0-07	
A-56		Stitch Control Plate	156101-0-01		153846-0-01		156103-0-01		156447-0-01	
G- 5		Feed Cam			156102-0-01					
G-12		Worm Wheel			153840-0-00					
G-15		Worm			153841-0-01					
G-24		Clutch Cam			153842-0-01					
G-35		Knife Cam	152730-0-01		152708-0-00		156446-0-01		156445-0-01	

Ref. No.	Name of Parts	Sub-class	-2		-3		-4		-7	
			Standard	With Finger Guard & Eye Guard	Standard	With Finger Guard & Eye Guard	Standard	With Finger Guard & Eye Guard	Standard	With Finger Guard & Eye Guard
H-1		Thread Wiper	152828-0-01		152828-0-01		152828-0-01		152828-0-01	
H-51		Finger Guard		153046-0-01		153046-0-01		153046-0-01		153046-0-01
Z-13		Motor Pulley 2000/50 (φ14)	153107-0-01							
		Motor Pulley 2000/60 (φ14)	153106-0-01							
		Motor Pulley (B) 2000/50 (φ15.88)	153801-0-01							
		Motor Pulley (B) 2000/60 (φ15.88)	153800-0-01							
Z-18		V Belt 2000/50	082105-2-90							
		V Belt 2000/60	082105-1-90							
Z-27		Screw 3.57 x 5		009670-5-12		009670-5-12		009670-5-12		009670-5-12
Z-28		Eye Guard Assembly		153100-0-00		153100-0-00		153100-0-00		153100-0-00

INDEX

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
001401-4-16	Z-26- 3		014760-6-22	B-44		025060-1-32	D-51		048350-2-42	D- 7	
001660-5-12	F- 8			B-51			J-47		048620-2-42	C- 5	
001670-5-12	b- 1- 6			C-51		025060-2-32	B-30		071047-6-50	F-32	
009660-3-12	B-54			D-12			D-43		071095-2-50	C-20	
009660-7-12	B-57			D-18- 2			E- 4		072600-3-60	D- 8	
	C-19			D-19			F-17		072600-7-60	C- 7	
009670-4-12	G-28			E- 6		025080-2-32	L-12		072630-2-60	B-26	
	K- 8			E-10		025100-1-32	L-22		081003-6-70	B-46	
009670-5-12	C-60			F- 6		025350-1-32	E-23			B-49	
	H- 2			F-16			H- 3		081008-0-70	J-24	
	M- 8			F-27		025350-3-32	J- 2		082104-8-90	Z-17	
	M-33			F-28			M-19- 5		082105-1-90	Z-18	
	M-41			F-34		025680-1-33	A-57		082105-2-90	Z-18	
	M-48			F-37			C-35- 6		100032-0-04	J-15	
	M-52			G-19		025710-2-32	b- 1- 9		100134-0-01	K-36	
	Z-27			G-47		025770-2-32	A-36		100136-0-01	K-24	
009670-6-12	K- 4			H-25			H-10			K-38	
	K-14			H-28			J-10			K-39	
	M-20			H-37		025800-3-33	C-67		100250-0-01	B-17	
009670-7-12	K-44- 7			H-46			L-25		100253-0-01	B- 7- 5	
	K-44-23			J-13		028040-2-42	C-59		100315-0-02	A-34	
	b- 1- 4- 7			J-40		028050-2-42	C-39		100360-0-03	J-17	
009670-8-12	A- 7			J-55			D-36		100398-0-01	K-34	
	E-14-14			J-61		028050-2-43	Z-15-11		100402-0-04	K-31	
	M-19- 7			Z-14		028060-2-42	D-52		100887-0-01	Z-20	
	a- 7-13		014770-6-22	A-52			G- 7		101572-1-01	Z- 9	
	b- 1- 4-13			B-13			L-28		101795-0-01	A-55	
009671-0-12	J- 1			B-14		028080-2-42	C-53		102538-0-07	Z-28- 1	
009671-4-12	M-19- 6			B-48			L-11		102630-0-01	H-31	
009680-6-12	A-45			C- 2		028100-2-42	L-23		102707-0-03	b- 1- 4-12	
	M- 2			G-22		031452-2-03	Z-15-15		102716-0-04	K-44- 2	
009680-6-13	A-58		014821-0-22	C-43		046301-6-20	B-42- 2			K-44- 3	
009680-7-12	K-44-20			D-15		046302-0-20	G-45- 1- 3		102843-0-04	B-29	
009680-8-12	A-18		017062-5-03	L-24		047250-6-42	E-14- 8		103950-0-02	K-30	
	A-22		017502-8-03	Z-15- 3		047251-6-40	M-51		104450-0-01	A-37	
	B- 7- 1			Z-15-16		047501-2-42	A-15			A-41	
	M-21		017711-4-12	D-37		048030-3-42	C-35- 1		104525-0-01	K-37	
009681-0-12	K-42			E-12			H- 7			K-40	
	M-15		017761-2-12	E-16		048040-3-42	C- 1- 3		104567-0-01	M- 3	
009689-4-12	E-14- 6		017761-4-12	B-31			C-30			M-27	
009710-6-12	L-15		017762-2-02	D-49			G-45- 5			M-29	
009710-7-12	A- 1		018060-8-22	D- 5- 2			G-54- 4		104689-0-01	B-35	
	K- 1		018061-6-22	D-53			H-11			C-69	
009711-4-12	A- 3			G-44			H-19		105234-0-03	E-11- 4	
	A-12		018062-0-22	E- 5			J- 8			H-55	
009761-4-12	A-11			G- 8			J-38		105248-0-01	M-49	
	J-46			G-14			J-51		105343-0-01	Z-34	
	K-45			G-53		048050-3-42	J- 9		106030-0-01	L- 8	
009781-4-12	B-10		018062-2-22	G-42			J-35		106129-0-01	Z-28- 4	
013710-7-12	G-31		018063-0-22	F-21			J-68		106147-0-01	C-21	
	G-33			G- 3			K-44-16		107030-0-01	G-52- 3	
	H- 5			G-26		048060-3-42	H-13		107149-0-01	B-33	
013719-4-12	L- 5			G-37			H-20		107153-0-02	H-21	
	b- 1- 4- 4		018081-2-22	L-10			H-41			H-40	
013760-6-12	H-24		018082-0-22	F- 5- 2		048080-3-42	B-61		107231-0-02	D-10	
	K- 7			F-38		048100-1-42	L-19		107744-0-01	C-35- 3	
	L- 6		018082-5-22	C-54		048110-1-42	C-27			E-11- 2	
013761-4-10	C-26		018501-4-22	B-62			D-33			H-53	
	D-27		018681-0-22	J-36			H-49		107779-0-01	Z-19	
013761-4-12	B-12		021060-1-02	L-29			J-64		107780-0-01	Z-21	
	B-18		021100-2-02	L-21		048120-1-42	J-52		108520-0-01	A-31	
014680-4-22	J- 6		021400-1-06	Z-26- 4		048150-1-42	B-23		109239-0-02	A-48	
	b- 1- 3		021500-1-03	Z-15- 6- 3		048160-1-42	D-16		109893-0-02	G- 6	
014680-6-22	B-36			Z-15-12		048170-1-42	D- 1		110027-0-01	G-46	
	E-20		021670-2-02	M-19- 2		048180-1-42	C-41		110251-0-01	C-23	
	H- 8		021680-2-02	C-35- 7			F-19			D-45	
	H-15		021710-2-12	b- 1- 8			F-22		110495-0-03	B-47	
014760-6-22	A-54		021800-1-03	C-68		048240-2-42	C- 9		110505-0-01	D-32	
	B-38		025030-1-32	F- 9		048320-2-42	L-13- 3		111140-0-02	J-31	
	B-41		025050-2-33	Z-15- 2		048350-1-42	C- 6		111865-0-01	D-20	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
111865-0-01	D-30		126863-0-00	Z-15- 8		150181-1-01	Z-15-14- 2		151944-0-01	D-18	
	H-35		140208-0-01	H-18		150182-0-00	Z-15- 9		151946-0-00	C-10	
	H-50			J-39		150184-0-01	Z-15- 4- 5		151947-1-01	D-18- 3	
	J-65		140392-0-01	A- 5		150189-0-01	Z-15-14- 1		151948-0-01	D-18- 4	
112468-0-01	J-67		140423-0-00	M-14- 2		150192-0-01	Z-15- 4		151949-0-01	D-23	
112751-0-03	K- 6			M-54		150202-0-01	Z-15- 6- 2		151951-0-01	D-22	
113006-0-01	M-43		140726-0-00	B-21		150398-0-01	E-14- 7		151952-0-01	D-14	
113316-0-01	K- 5		141331-0-01	E-31- 1		150401-0-01	E-14-11		151953-0-01	D-17	
113431-0-02	C-35- 2		141334-0-01	G-49		150402-0-01	E-14-10		151954-0-01	D-13	
	D-35			J-43		150553-0-01	D-44		151968-0-01	E-11	
114294-0-01	K-32		141472-0-02	D-21			G-51		151969-0-01	E-11- 1	
114483-0-01	Z-23		141528-0-01	K-26			J-59		151995-0-01	B-20	
114486-0-01	L-16		141550-0-01	K-44-11		150554-0-02	C-56		151997-0-00	B-25	
114985-0-01	A-44		141583-0-01	H-43		150555-0-01	D-25- 2		151998-0-00	B-27	
115003-0-01	C- 1- 6		141692-0-01	M-19- 4			H-42- 2		151999-0-01	B-28	
115012-0-02	C-55		141786-0-01	B-34			H-44		152000-0-01	B-19	
115018-0-01	C-66		141808-0-01	A-40		150556-0-01	D-24		152191-0-01	B-42	
115040-1-16	b- 1-13		141816-0-01	G-21			D-38		152236-0-01	B- 7- 3	
115053-0-16	B- 1		141860-0-01	L-13- 5		151163-0-01	C-48		152238-0-01	B- 7- 6	
115053-4-16	Z-10		142002-0-01	Z- 2			G-10		152239-0-01	B- 7- 2	
115077-0-03	K-27		142211-0-01	B- 8		151601-0-01	K-44-14		152242-0-01	B-11	
115138-0-01	K-44-18		142443-0-01	Z- 7		151601-0-02	K-16		152244-0-00	B- 9	
115147-0-01	E- 8		142566-0-01	K-44-13		151602-0-02	F- 4		152245-0-01	B-39	
115148-1-01	E- 7		142628-0-01	C-28		151604-0-02	A-27		152246-0-01	B-40	
115151-0-00	E-14- 5			D-29		151886-0-01	C-45		152247-0-01	B-37	
	a- 7- 5			H-48		151887-0-01	C-42		152250-0-01	B-43	
115156-0-01	E-14-16			J-63		151888-1-01	C-52		152676-0-01	B-45	
	a- 7- 9		142677-0-01	b- 1- 4-11		151889-0-01	C-62		152677-0-01	B-52	
115157-0-01	Z- 6		142678-0-01	b- 1- 4-10		151890-0-00	C-63		152678-0-01	B-50	
115158-0-01	E-14-17		142680-0-01	b- 1- 4- 1		151891-0-01	C-65		152679-0-01	B-53	
	a- 7-10		142681-0-01	b- 1- 4- 5		151892-0-01	C-64		152680-0-01	B-55	
115160-0-01	A-51		142686-0-01	b- 1- 5		151893-0-01	C-61		152681-1-01	B-63	
115161-0-01	E-14- 1		142689-1-01	b- 1- 4		151894-0-01	C-29		152682-0-01	B-65	
	a- 7- 1		142706-0-01	b- 1- 4- 6		151895-0-00	C-32		152683-0-01	B-60	
115162-0-01	E-14-15		142721-0-01	Z- 3		151898-0-01	C-31		152684-0-01	B-59	
	a- 7-14		142990-0-01	Z-15- 4- 2		151899-0-01	C-33		152685-0-01	B-64	
115163-0-01	E-14-18		144226-0-01	Z-29		151900-0-01	C-25		152688-1-01	B-67	
	a- 7-11		144458-0-01	B- 3		151901-0-01	C-50		152693-0-01	C- 1- 5	
115164-0-01	E-14- 3		144694-0-01	M-12		151902-0-01	C-24		152694-0-01	C- 1- 4	
	a- 7- 3		144712-0-02	B-32- 1		151903-0-01	C-22		152695-0-01	C- 4	
115165-0-01	E-14- 2		145265-0-01	B-66		151904-1-01	C-35		152698-0-01	C-13	
	a- 7- 2			Z-12		151905-1-01	C-35- 5		152699-0-01	C- 8	
115166-0-01	E-14- 4		145318-0-01	E-30		151906-1-01	C-35- 4		152700-0-00	C-12	
	a- 7- 4		145446-0-01	K-18		151907-0-01	C-34		152701-0-01	C-11	
115269-0-01	E-14-13			K-35			G-50		152702-0-01	C-16	
	a- 7-12			K-41			J-58		152703-0-00	C-15	
115270-0-03	A-50		145480-0-01	A-32		151908-0-01	C-36		152704-0-00	C-14	
115493-0-02	A-49		145519-0-01	K-33		151910-0-01	C-38		152705-0-01	C-17	
116016-0-01	Z-26- 2		146354-0-01	E-13		151912-0-01	D-26		152706-0-01	C-18	
116185-2-01	Z-26		146375-0-00	M-11		151913-0-01	D-40		152707-0-01	G-15	
116629-0-01	H-14		146994-0-01	E- 9		151914-0-01	D-39		152708-0-00	G-12	
116920-0-01	B-24		147111-0-01	C- 3		151915-0-01	G-52		152709-0-00	G-11	
117150-0-01	M- 9		147151-0-00	G-16		151919-1-01	D-31		152710-0-01	G-13	
	M-40		147487-0-01	Z- 5		151920-0-01	D-34		152711-0-00	G-20	
117363-0-01	C-40		147745-0-00	M-14- 4		151922-0-01	D-48		152712-0-01	G-39	
117437-1-01	Z-26- 1			M-35		151923-0-01	D-47		152713-0-01	G-18	
117934-0-01	A- 2			M-44		151924-0-01	D-46		152715-0-01	G-23	
117936-0-01	A- 6		148735-0-01	M-23		151925-0-01	D-28		152718-0-01	G-17	
118064-0-01	Z- 4			M-37		151927-0-01	C-49		152719-0-00	G-40	
118538-0-01	a- 7			M-55		151928-0-01	D-11		152720-0-00	G- 4	
118539-0-01	a- 7- 8		148921-0-00	M-32		151929-0-00	C-46		152723-0-01	G-38	
118540-0-01	a- 7- 7		149247-0-01	Z-16		151932-0-01	D- 9		152724-0-01	G- 1	
118541-0-01	a- 7- 6		150106-0-01	Z-15- 6		151933-0-01	D- 5- 1		152725-0-00	F-20	
118719-0-01	A-33		150139-0-01	Z-15-14		151935-0-00	D- 5- 1- 1			G- 2	
118837-0-01	Z- 8		150150-0-01	Z-15		151936-0-01	D- 3			G-25	
120448-0-01	K-44- 5		150172-0-01	Z-15- 5		151937-0-01	D- 2			G-36	
	Z-31		150173-0-01	Z-15- 6- 1		151938-0-01	D- 4		152728-0-01	C-47	
120990-0-01	b- 1- 4- 2		150177-0-01	Z-15-13		151939-0-01	G-54			G- 9	
122991-0-01	Z- 1		150179-0-01	Z-15- 7		151940-0-01	D- 5- 3		152730-0-01	G-35	
123006-0-01	B-15		150180-0-00	Z-15-10		151941-0-01	D- 5- 4		152731-0-01	G-30	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
152732-0-01	G-32		152869-0-01	K- 2		152963-0-01	M-25		153598-0-01	J-25	
152734-0-01	G-43		152870-0-01	K- 3		152964-0-01	M-30		153763-0-01	M-47	
152735-1-01	G-45		152872-0-01	K-29			M-31		153800-0-01	Z-13	
152739-0-01	G-45- 3		152873-0-01	K-28		152965-0-01	M-26		153801-0-01	Z-13	
152742-0-01	F- 1		152874-0-01	H-17		152966-0-01	M-19- 1		153820-1-01	F- 5	
152744-0-01	H-30		152875-0-01	K-17		152967-0-01	M-19- 3		153823-0-01	F-32	
152745-0-01	F- 7		152876-0-01	K-15		152968-0-01	H-34		153824-0-01	F-35	
	F-33		152877-0-01	K-20		152969-0-01	M-34		153826-0-01	F-10	
152749-0-01	F-12		152878-0-01	K-21			M-53		153827-0-01	E-19	
	F-30		152879-1-01	K-22		152971-0-01	M-58		153828-0-01	H-52	
152750-0-01	F-11		152880-0-01	K-23		152972-0-01	M-56		153830-0-02	E-15	
	F-29		152881-0-01	K-11		152973-0-01	M-42		153831-0-01	H-33	
152752-0-01	F-14		152883-0-00	K-10			M-59		153832-1-01	E-26	
152755-0-01	F-17		152884-0-01	K- 9		152974-0-01	M-36		153833-1-01	a- 2	
152756-0-01	C-44		152886-0-01	J- 5		152976-0-01	C-58		153834-0-01	E-18	
	F-18		152887-0-01	J- 7		152977-0-01	C-57		153835-0-02	E- 3	
	F-23		152888-0-01	K-25		152978-0-01	M-22		153836-0-01	E- 2	
	F-25		152889-0-01	K-13		152980-0-01	M-62		153837-0-01	E-24	
152759-0-01	E-28		152890-0-01	B- 2			M-63		153838-0-01	E- 1	
152760-0-01	F-26		152892-0-01	J-37		152981-0-01	J-29		153839-0-01	E-25	
152765-0-01	Z-22		152893-1-01	J-33		152982-1-01	K-44		153840-0-00	G-12	
152766-0-01	E-29		152896-0-01	J-34		152983-0-01	K-44-17		153841-0-01	G-15	
152769-0-01	E-31		152897-1-01	J-19		152984-0-01	K-44- 6		153842-0-01	G-24	
152771-0-00	E-31- 4		152901-0-01	b- 1-12		152985-0-01	M-46		153843-0-01	A-53	
152772-0-01	E-33		152904-0-01	J-26		152986-0-01	A-21		153845-0-01	G-27	
152773-0-01	E-31- 2		152905-0-01	J-32		152988-0-01	J-11		153846-0-01	A-56	
152798-0-01	H-29		152906-1-01	J-21		152989-0-01	A-17		153867-1-01	D- 6	
152799-0-01	H-26		152912-0-01	J-54		152992-0-01	M-10		153868-1-02	A-13	
152800-2-01	H-32		152913-0-01	G-54- 3		152995-0-01	J-18		153870-1-01	a- 3	
152801-0-01	H-23			J-49		153035-0-00	E-27		153871-0-01	a- 1	
152802-0-01	H-27		152914-0-01	G-34		153040-0-01	B-32		153918-0-01	M-14- 6	
152803-0-01	H-22			G-54- 2		153041-0-01	F- 2		153919-0-01	M-14- 3	
152805-0-01	H-38			J-50		153042-0-01	F-13		153920-0-01	M-57	
152806-0-01	H-39		152915-0-01	J-48			F-31		153921-0-01	M-39	
152807-0-01	H-36		152916-0-01	J-41		153044-0-01	C- 1		153922-0-01	M-24	
152808-1-01	D-25		152917-0-01	J-53		153046-0-01	H-51			M-28	
	H-42		152919-0-01	J-42		153049-0-01	K-12		153924-0-01	M-38	
152811-0-01	H-45		152920-0-01	J-57		153050-0-00	B-56		153925-0-01	B-22	
152815-0-01	H-16		152921-0-01	J-56		153056-0-02	A-28		153926-0-01	F- 3	
152816-0-01	H-12		152922-0-01	J-60		153056-0-03	A-28		153927-0-01	M-18	
152822-0-01	H- 9		152923-0-01	J-66		153056-0-04	A-28		153988-0-01	F-15	
152823-0-01	H- 6		152924-0-01	H-47		153056-0-07	A-28		153989-0-01	F-36	
152827-0-01	H- 4		152925-1-01	J- 4		153057-0-02	E-21		154155-1-01	D-41	
152828-0-01	H- 1		152926-0-01	J- 3		153058-0-01	C- 1- 2		154166-1-01	a- 4	
152830-0-02	A-10		152929-0-01	J-12		153098-0-00	Z-28- 3		154167-1-01	a- 5	
152831-0-00	A- 4		152933-0-01	K-44-10		153100-0-00	Z-28		154174-0-01	F-24	
152832-0-02	A- 4- 1		152934-0-01	K-44- 1		153102-0-01	Z-28- 2		154176-0-01	J-20	
152833-0-01	A- 4- 2		152935-0-01	K-44-21		153104-0-01	G-41		154179-0-01	Z-33	
152835-0-02	A-35		152936-0-01	K-44- 9		153106-0-01	Z-13		154332-0-01	D-25- 3	
152836-0-02	A-42		152937-0-01	K-44- 8		153107-0-01	Z-13			H-42- 1	
152838-0-01	A-46		152938-0-01	K-44-19		153138-0-01	K-19		154333-0-01	D-25- 1	
152839-0-01	A-43		152939-0-01	K-44-12		153141-0-01	G-29			H-42- 3	
152841-0-02	A- 8		152940-0-01	K-44-22		153195-0-01	G-45- 4		154465-0-01	L-14	
152842-0-02	A-47		152941-0-01	K-44-15		153208-0-02	J-14		154528-0-01	K-44- 4	
152846-0-02	A-19		152945-0-01	K-43		153219-0-01	J-27		154561-0-01	B- 7	
152847-0-00	A-24		152948-0-01	M-13		153220-0-01	J-30		154623-0-00	B-16	
152848-0-01	A-20			M-50		153222-0-01	J-28		154624-0-01	B- 7- 7	
152852-1-01	L-13		152949-0-01	M-14		153330-0-01	B- 7- 4		154626-0-01	B- 4	
152857-0-01	L- 4		152950-0-01	M-14- 1		153332-0-01	G-45- 1		154627-0-01	B- 5	
152858-0-01	L- 3		152951-0-01	M-14- 7		153482-0-01	J-62		154665-0-01	a- 6	
152859-0-01	L- 2		152952-0-01	M-14- 5		153484-0-01	E-11- 3		154684-0-01	b- 1- 4- 9	
152860-0-01	L- 1		152953-0-01	M-45			H-54		154685-0-01	b- 1- 4- 8	
152861-1-01	L-17		152955-0-01	M- 1- 2		153528-0-01	M-16		154686-0-01	b- 1- 4- 3	
152862-0-01	L-18		152956-0-01	M- 1- 3		153529-0-01	M-17		154694-0-01	b- 1	
152863-0-01	L-26			M- 4		153530-0-01	M- 7		154695-0-01	b- 1- 2	
152864-0-00	L-27		152958-0-01	M- 1		153531-0-01	M-60		154696-0-01	b- 1- 1	
152865-0-01	L-20		152959-0-01	M- 1- 1		153562-0-01	M-61		154697-0-01	b- 1-11	
152866-0-01	L- 7		152960-0-01	M- 6		153574-2-01	Z-30		154701-0-01	B- 6	
152867-0-00	A-26		152961-0-01	M-19		153596-0-01	J-23		154702-0-01	Z-24	
152868-0-00	A-25		152962-0-01	M- 5		153597-0-01	J-22		154713-0-01	b- 1-10	

[illegible]

