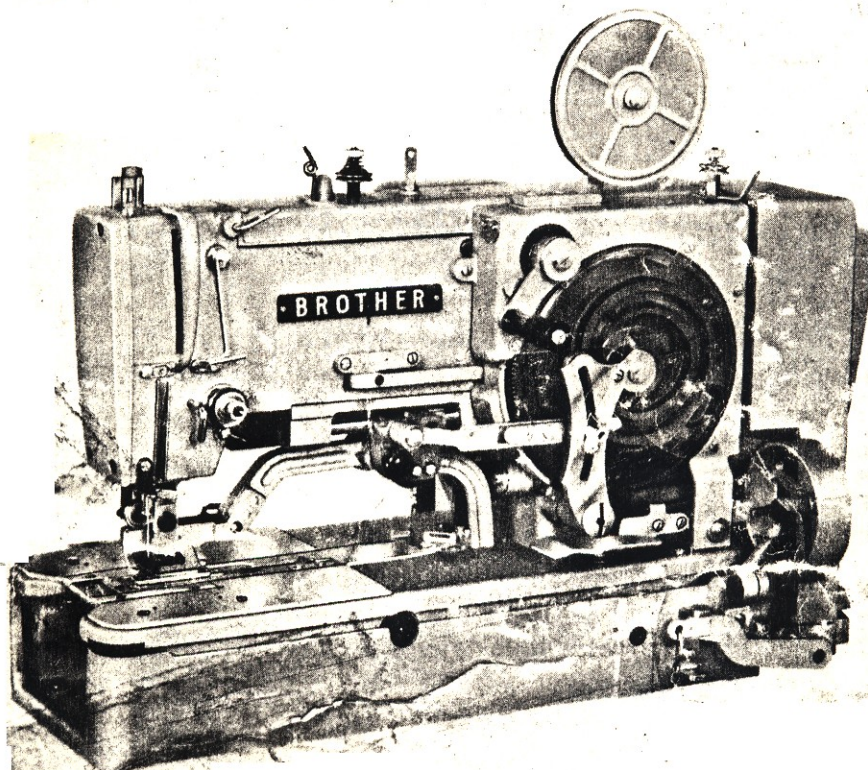


PARTS BOOK
FOR
BROTHER LH4-B814-2,-3

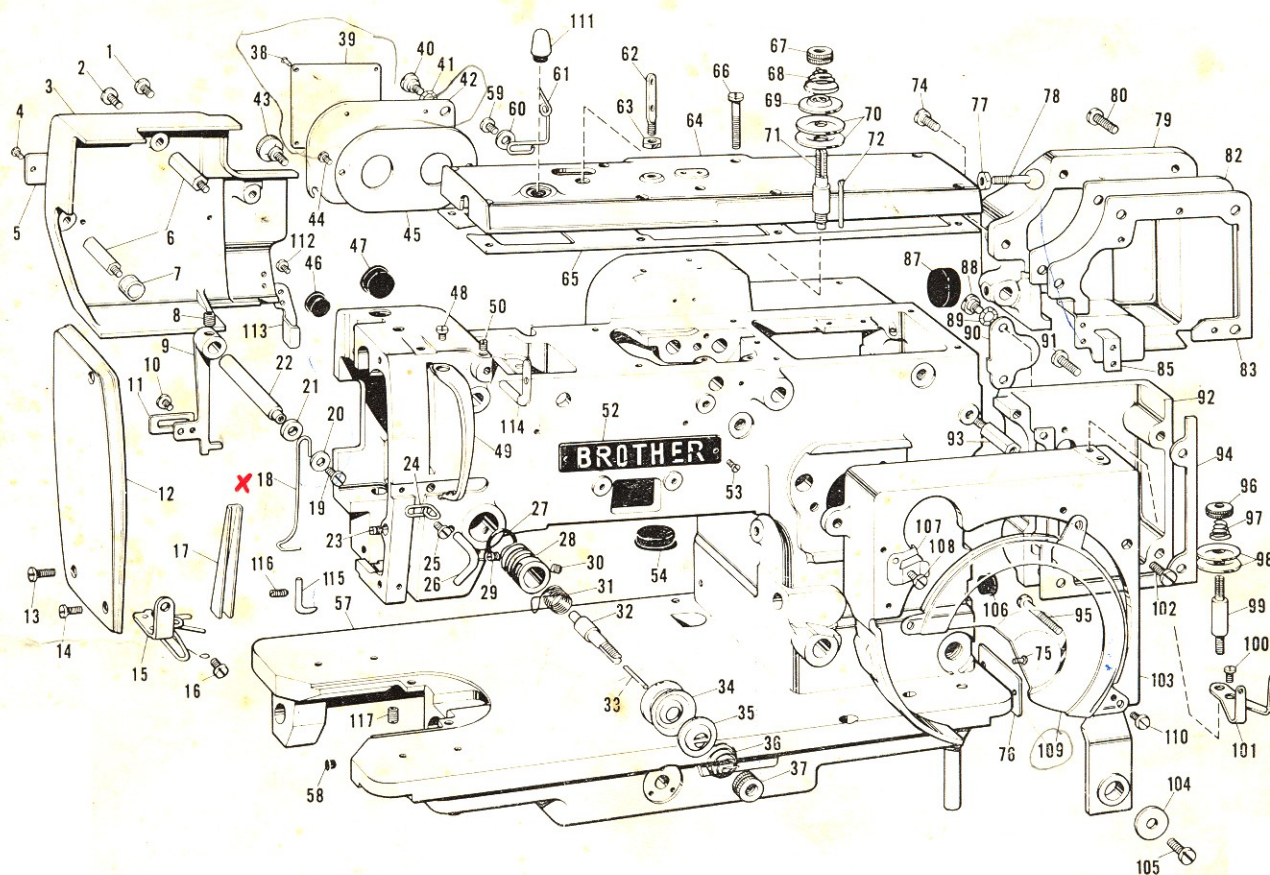


High Speed Buttonhole Sewing Machine.

BROTHER INDUSTRIES,
NAGOYA, JAPAN

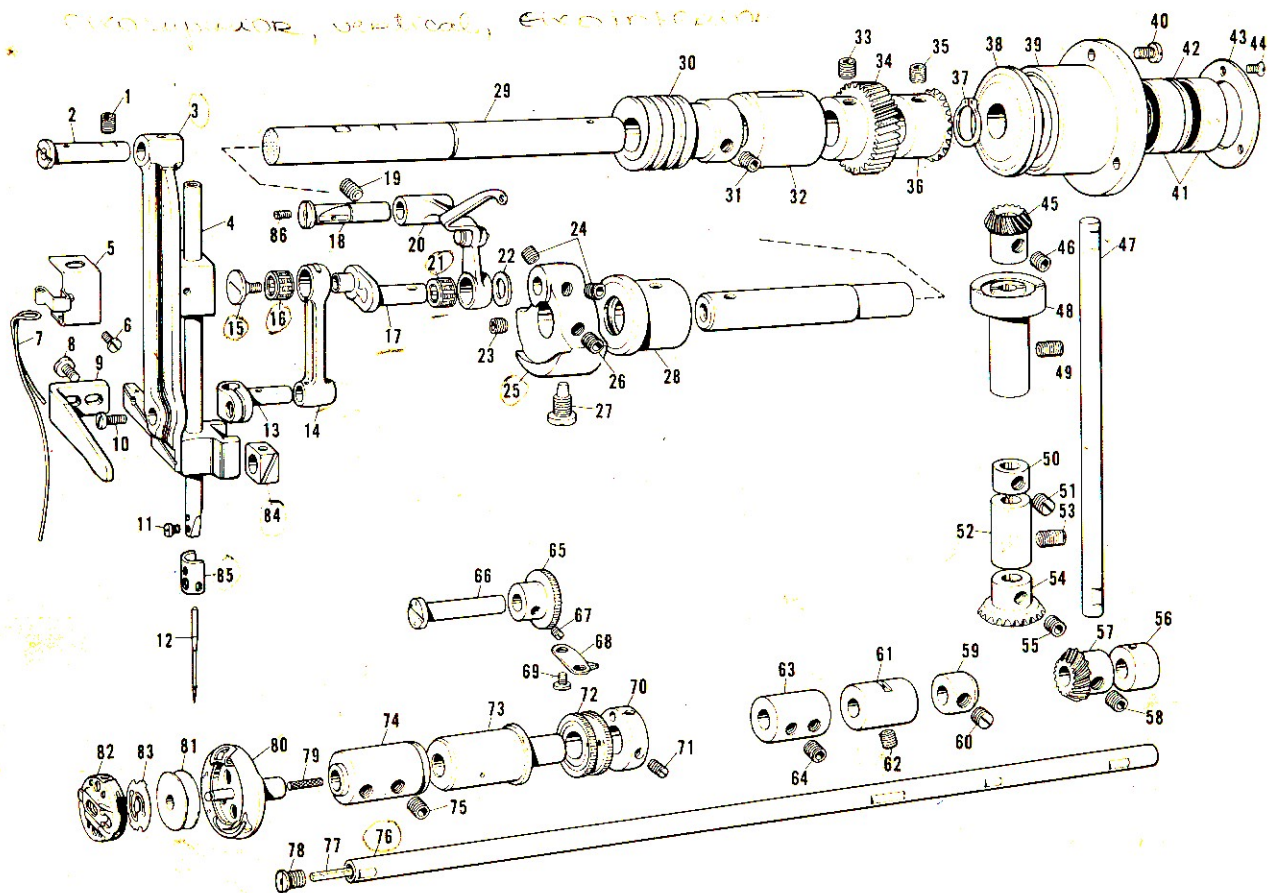
A. Machine Body and Threading

corpo da máquina / e passa fio



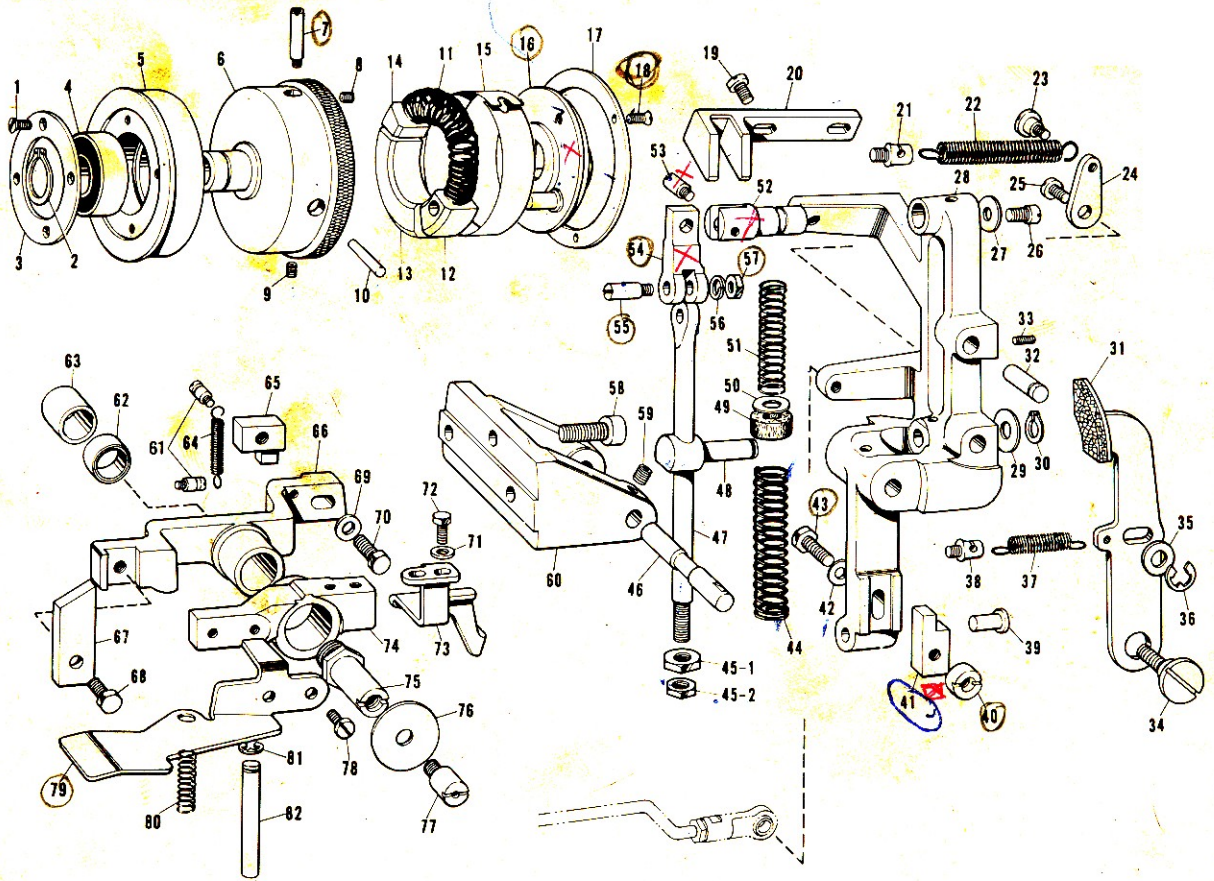
Ref. No.	Name of Parts	Q'ty	Parts No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Ref. No.	Name of Parts	Q'ty	Parts No.
A-1	Screw	2	009681-2-14	A-37	Nut	1	100136-0-01	A-77	Nut	1	105234-0-03
A-2	Screw	1	009682-0-14	A-38	Gear Case Cover Assembly	1	141263-0-01	A-78	Belt Cover Stopper	1	141248-0-01
A-3	Rear Cover	1	141261-0-01	A-39	Diagram For Numbers of Stitch	1	141265-0-01	A-79	Sub Shaft Cover Upper	1	141249-0-01
A-4	Screw	2		A-40	Screw	1	107321-0-01	A-80	Screw	1	009761-4-13
A-5	Name Plate "Brother"	1		A-41	Washer	1	100008-0-03	A-82	Sub Shaft Cover	1	144946-0-00
A-6	Bolt	3	141262-0-01	A-42	Gear Case Cover	1		A-83	Packing (Large)	1	141252-0-00
A-7	Vinyl Tube	1	117258-0-01	A-43	Screw	1	009670-6-12	A-85	Packing (Small)	1	142269-0-00
A-8	Screw	1	013760-6-12	A-44	Screw	2	141269-0-01	A-87	Clip	1	116725-0-01
A-9	Cutter Bar fixed Plate	1	141619-0-01	A-45	Gear Separation Plate	1	104450-0-01	A-88	Screw	1	107321-0-01
A-10	Screw	1	101671-0-01	A-46	Vinyl Cap	1	1009670-5-14	A-89	Washer	1	107017-0-01
A-11	Balance	1	141620-0-01	A-47	Oil Cap	1	009670-5-14	A-90	Cap	1	143985-0-01
A-12	Face Plate	1	141260-0-01	A-48	Screw	1	009670-5-14	A-91	Screw	3	009762-0-13
A-13	Screw	2	009681-4-14	A-49	Thread Take-up Cover	1	013680-6-13	A-92	Sub Shaft Cover Lower	1	143984-0-01
A-14	Screw	1	009681-0-14	A-50	Screw	1		A-93	Bolt	1	141267-0-01
A-15	Sub Tension Assembly	1	148055-0-01	A-51	Name Plate (70)	1		A-94	Packing (Large)	1	141254-0-00
A-16	Screw	1	001670-5-14	A-52	Screw	2		A-95	Screw	1	102023-0-03
A-17	Thread Guide	1	141694-0-01	A-53	Screw	1		A-96	Bobbin Winder Tension Control Nut	1	107682-0-01
A-18	Thread Breakage Perceiving Wire	1	141614-0-01	A-54	Oil Cap	2	142743-0-00	A-97	Spring	1	107681-0-01
A-19	Screw	1	001670-6-12	A-55	Arm Bed	1		A-98	Disc	2	107680-0-01
A-20	Washer	1	025350-3-32	A-56	Oil Cap	1	104833-0-01	A-99	Stud	1	107678-0-01
A-21	Collar	1	141617-0-01	A-57	Arm Bed	1	100644-0-04	A-100	Screw	1	107407-0-02
A-22	Thread Breakage Perceiving Wire Bar	1	141616-0-01	A-58	Oil Cap	1	025680-2-34	A-101	Bobbin Winder Thread Guide	1	141600-0-01
A-23	Screw	1	013711-0-10	A-59	Screw	1	141593-0-01	A-102	Screw	2	009681-2-14
A-24	Arm Thread Guide (Upper)	2	142735-0-01	A-60	Washer	1	141590-0-01	A-103	Cam Cover	1	141266-0-01
A-25	Screw	2	112751-0-02	A-61	Thread Guide	1	021760-3-04	A-104	Washer	1	116662-0-02
A-26	Tension Thread Guide	1	142733-0-01	A-62	Thread Retainer (Upper)	1	141243-0-01	A-105	Screw	1	100644-0-04
A-27	Packing	1	114294-0-01	A-63	Nut	1	141244-0-00	A-106	Vinyl Cap	1	104450-0-01
A-28	Upper Tension Regulator Bracket	1	144741-0-01	A-64	Top Cover	1	102424-0-03	A-107	Spring	1	147317-0-01
A-29	Screw	1	100402-0-02	A-65	Packing	1		A-108	Screw	1	009689-4-12
A-30	Screw	1	103950-0-02	A-66	Screw	8	100136-0-01	A-109	Sub Cam Cover	1	143445-0-01
A-31	Thread Take-up Spring	1	100399-0-01	A-67	Nut	1	117215-0-01	A-110	Screw	3	001670-5-14
A-32	Tension Stud	1	100398-0-01	A-68	Tension Spring	1	100134-0-01	A-111	Oil Gauge Window	1	143713-0-01
A-33	Tension Release Pin	1	100400-0-00	A-69	Tension Disc Washer	1	145446-0-01	A-112	Screw	2	009680-6-12
A-34	Tension Disc	2	145446-0-01	A-70	Tension Disc	2	107602-0-01	A-113	Cover	1	143911-0-01
A-35	Tension Disc Washer	1	100134-0-01	A-71	Upper Tension Stud	1	107612-0-01	A-114	Thread Retainer	1	145961-0-01
A-36	Tension Spring	1	107606-0-01	A-72	Tension Release pin	1	009762-0-13	A-115	Needle Bar Position Pointer	1	148682-0-01
				A-74	Screw	3		A-116	Screw	1	103978-0-02
				A-75	Model Plate Pin	2		A-117	Screw	2	013760-7-13
				A-76	Model Plate	1					

B. Upper Shaft, Vertical Shaft and Lower Shaft Assembly



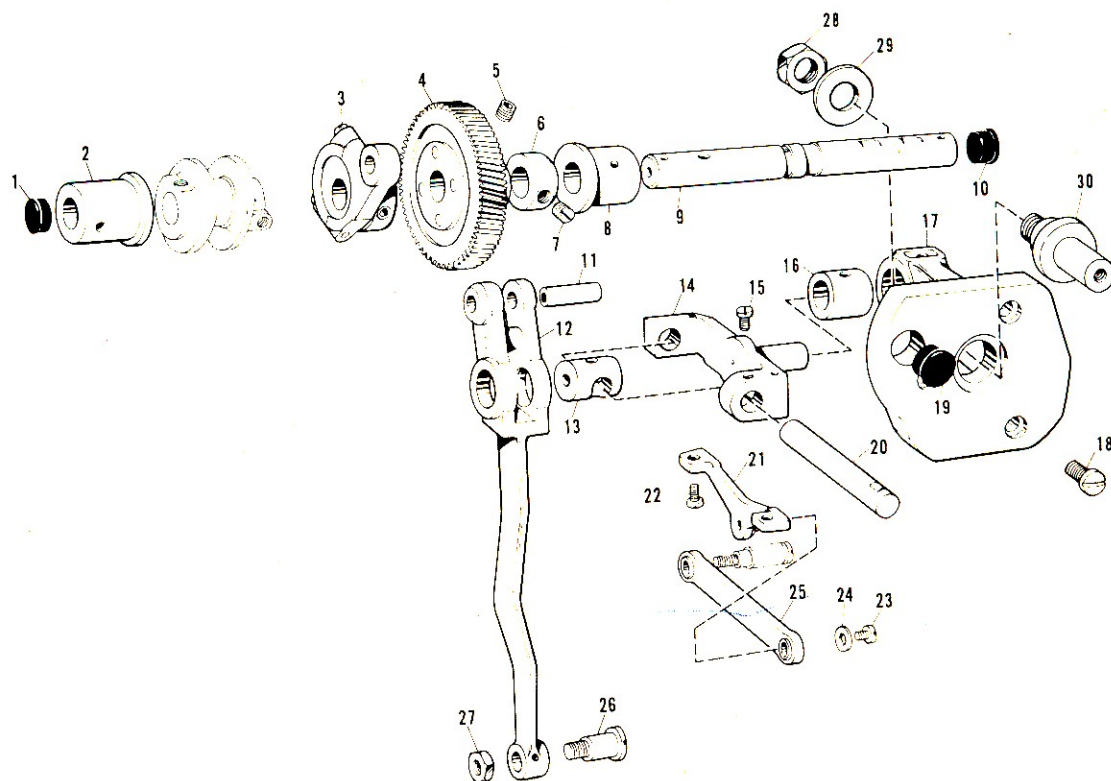
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B-1	Screw	1	014770-6-22		B-41	Ball Bearing	2	072620-2-60	U
B-2	Stud	1	141295-0-01		B-42	Washer	1	141275-0-01	
B-3	Needle Bar Support	1		142736-0-01	B-43	Cap	1	141276-0-01	
B-84	Slide Block	1	142737-0-01		B-44	Screw	3	102843-0-04	OK
B-86	Screw	1	013679-4-12		B-47	Vertical Shaft	1	141297-0-01	
B-5	Wick Holder	1	141682-0-01		B-48	Vertical Shaft Upper Bushing	1	141298-0-00	OK
B-6	Screw	1	009669-4-12		B-49	Screw	1	013761-4-10	OK
B-7	Wick	1	141681-0-00		B-50	Lower Shaft Collar	1		181995-0-01
B-8	Screw	2	107407-0-03		B-51	Screw	2	101706-0-01	
B-9	Needle Bar Support Guide	1	141296-0-01		B-52	Vertical Shaft Lower Bushing	1	142709-0-00	
B-11	Screw	1	140553-0-01		B-53	Screw	1	013761-4-10	
B-12	Needle DP×5	1			B-54	Vertical Shaft Lower Gear	1	141270-0-01	OK
B-10	Set Screw	1	140004-0-01		B-55	Screw	2	014770-6-22	181093-0-01
B-13	Needle Bar Clamp	1	111223-0-01		B-57	Lower Shaft Gear	1	141270-0-01	
B-14	Needle Bar Crank Rod	1	112343-0-01		B-58	Screw	2	014770-6-22	
B-15	Screw	1	112343-0-01		B-56	Lower Shaft Bushing (Right)	1	141303-0-03	
B-16	Needle Roller Bearing	1	141296-0-01	147650-0-01	B-59	Set Collar	1		118759-0-01
B-17	Needle Bar Crank	1	141296-0-01		B-60	Screw	2	101706-0-01	
B-18	Stud	1	141296-0-01		B-61	Lower Shaft Bushing Intermediate	1	141305-0-00	
B-20	Thread Take-up Lever	1	141296-0-01		B-62	Screw	1	013771-4-10	
B-21	Needle Roller Bearing	2	141296-0-01		B-63	Collar (Left)	1	141304-0-01	
B-19	Screw	1	014770-6-22		B-64	Screw	4	014770-6-22	
B-22	Washer	1	110367-0-01		B-65	Oil Adjusting Knob	1	142582-0-01	
B-23	Screw	1	101706-0-01		B-66	Oil Adjusting Stud	1	142408-0-01	
B-24	Screw	1	014770-6-22		B-67	Screw	2	013680-6-12	
B-25	Counter Weight	1	141290-0-00		B-68	Ratchet	1	109862-0-01	
B-26	Screw	1	014770-6-22		B-69	Screw	2	009670-5-12	
B-27	Screw	1	100250-0-01		B-70	Collar	1	109183-0-01	
B-28	Upper Shaft Bushing (Left)	1	141272-0-01		B-71	Screw	2	013670-7-12	
B-29	Upper Shaft	1	141271-0-01		B-72	Oil Adjusting Ring	1	142407-0-01	
B-30	Worm	1	141367-0-01		B-73	Lower Shaft Bushing (F)	1	146355-0-01	
B-31	Screw	2	014770-6-22		B-74	Collar	1	141304-0-01	
B-32	Upper Shaft Bushing (Intermediate)	1	141273-0-00		B-75	Screw	4	143793-0-01	139333-0-01
B-33	Screw	2	014770-6-22		B-76	Lower Shaft	1	141270-0-01	
B-34	Speed Reduction Gear	1	141309-0-00		B-77	Felt	1	142744-0-01	
B-35	Screw	2	014770-6-22		B-78	Screw	1	109173-0-01	
B-36	Upper Shaft Gear	1	141270-0-01	181092-0-01	B-79	Felt	1	147985-0-01	
B-45	Vertical Shaft Gear	1	141270-0-01		B-80	Rotary Hook Assembly	1	143986-1-01	
B-46	Screw	2	014770-6-22		B-81	Bobbin	1	146025-0-01	
B-37	Stop Ring	1	048150-1-40		B-82	Bobbin Case Assembly	1	107097-1-01	
B-38	Oil Rejector	1	141277-0-00		B-83	Bobbin Spring	1	148054-0-01	
B-39	Bearing Case	1	141274-0-00		B-4	Needle Bar	1	148052-0-01	141293-1-01
B-40	Screw	3	009681-2-12		B-85	Needle Bar	1	148053-0-01	

C. Clutch Mechanism



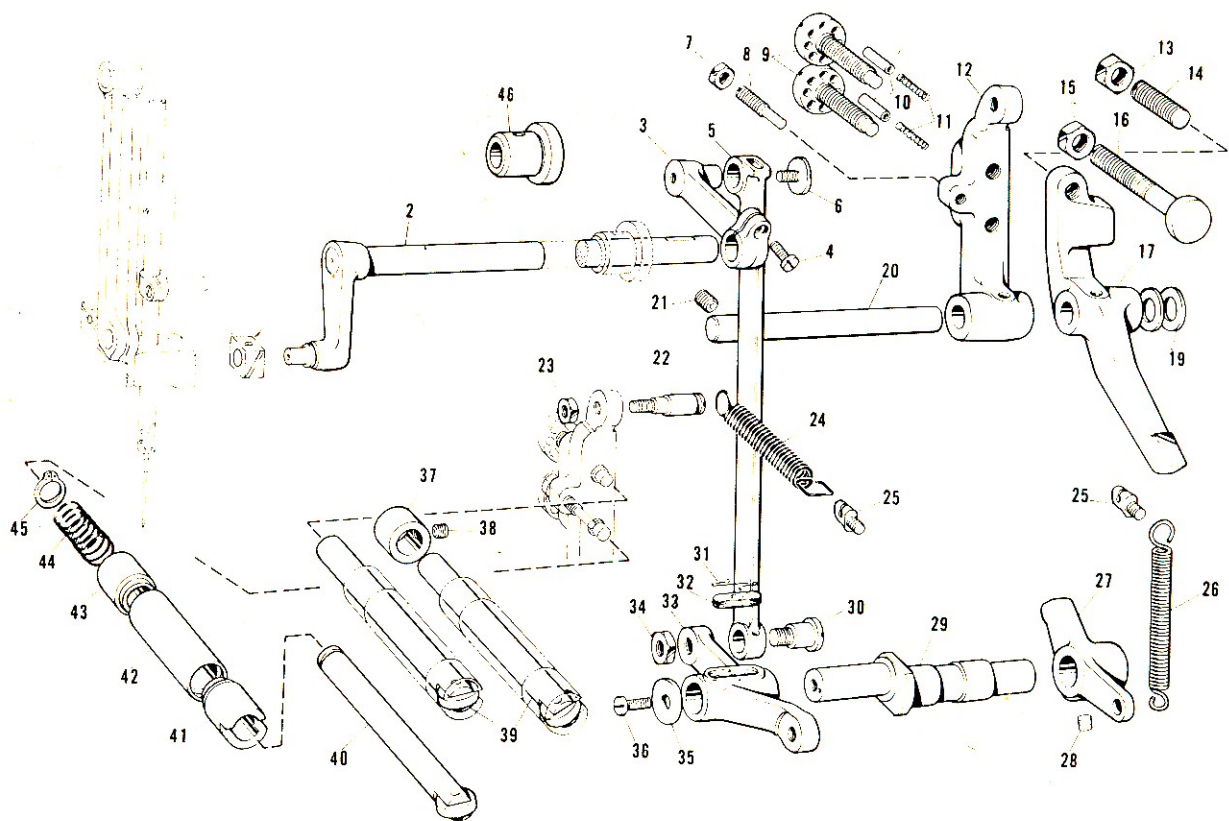
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C-1	Screw	4	102843-0-04		C-43	Bolt	1	017782-5-12	
C-2	Stop Ring	1	048250-1-40		C-44	Spring (C)	1	147639-0-01	
C-3	Bearing Cap (Large)	1	141279-0-01		C-45-1	Nut	1	021860-2-02	
C-4	Bearing 6005vv	1	072600-5-60		C-45-2	Nut	1	100075-0-04	
C-5	Idle Pulley	1	141278-0-01		C-46	Clutch Lever Shaft	1	141558-0-01	
C-6	Pulley	1	141280-0-01		C-47	Stopper Bar	1	141554-0-01	
C-7	Screw	1	141282-0-01		C-48	Bar Clamp	1	115552-0-01	
C-8	Screw	1	013670-7-12		C-49	Spring Felt	1	115550-0-01	
C-9	Screw	1	014770-6-22		C-50	Washer	1	025100-1-32	
C-10	Pin	1	142297-0-01		C-51	Spring (B)	1	115551-0-01	
C-11	Plunge Spring	1	141283-0-01		C-52	Clutch Stopper Stud	1	115542-0-01	
C-12	Block for Pulley Stop Cam	1	141285-0-01		C-53	Screw	1	115544-0-01	
C-13	Plunge Spring Supporter	1	141284-0-00		C-54	Clutch Stopper	1	115545-0-01	
C-14	Block for Pulley	1	141281-0-01		C-55	Screw	1	115546-0-01	
C-15	Pulley Inside Cover	1	142751-0-01		C-56	Washer	1	028050-2-40	
C-16	Stop Cam Assembly	1	141286-0-01		C-57	Nut	1	021710-2-02	
C-17	Cap for Stop Cam	1	141289-0-01		C-58	Bolt	3	018082-5-22	
C-18	Screw	3	117348-0-01		C-59	Screw	1	014770-6-22	
C-19	Screw	2	009761-0-12		C-60	Clutch Lever Bracket	1	141557-0-01	
C-20	Belt Shifter	1	141556-0-01		C-61	Sustainer	2	141550-0-01	
C-21	Spring Hook	1	141334-0-01		C-62	Bushing	1	142373-0-00	
C-22	Clutch Return Spring	1	141559-0-01		C-63	Bushing	1	142372-0-00	181708-0-01
C-23	Screw	1	115559-0-02		C-66	Stop Lever	1		
C-24	Adjusting Plate	1	115558-0-02		C-64	Stop Lever Spring	1	141549-0-01	
C-25	Screw	1	009761-0-12		C-65	Clutch Claw (A)	1	141548-0-01	
C-26	Screw	1	009761-2-12		C-67	Stop Cam Segment	1	145442-0-01	
C-27	Washer	1	025060-3-32		C-68	Bolt	1	017761-4-12	
C-28	Clutch Lever	1	146041-0-01		C-69	Washer	1	118735-0-02	
C-29	Washer	1	025100-1-32		C-70	Bolt	1	017781-4-12	
C-30	Stop Ring	1	048100-1-42		C-71	Washer	2	025680-2-34	
C-31	Brake Lever Assembly	1	142755-0-01		C-72	Bolt	2	017681-0-14	
C-32	Brake Lever Pin	1	142214-0-01		C-73	Retainer	1	141703-0-01	
C-33	Screw	1	013760-8-12		C-74	Emergency Stop Supporter	1	141700-0-01	
C-34	Screw	1	141953-0-01		C-75	Emergency Stop Lever Shaft	1	141618-0-01	
C-35	Washer	1	107153-0-02		C-76	Washer	1	141701-0-01	
C-36	Stop Ring	1	048070-3-42		C-77	Screw	1	141702-0-01	
C-37	Brake Spring	1	142771-0-01		C-78	Screw	2	107407-0-02	
C-38	Spring Hook	1	141334-0-01		C-79	Emergency Stop Lever	1	141698-0-01	
C-39	Clutch Lever Pin	1	141555-0-01		C-80	Spring	1	141699-0-01	
C-40	Emergency Stop Joint	1	141704-0-01		C-81	Stop Ring	1	048070-3-42	
C-41	Clutch Claw (B)	1	141553-0-01		C-82	Belt Shifter Bar	1	141574-0-01	
C-42	Washer	1	118735-0-02						

D. Zigzag Mechanism



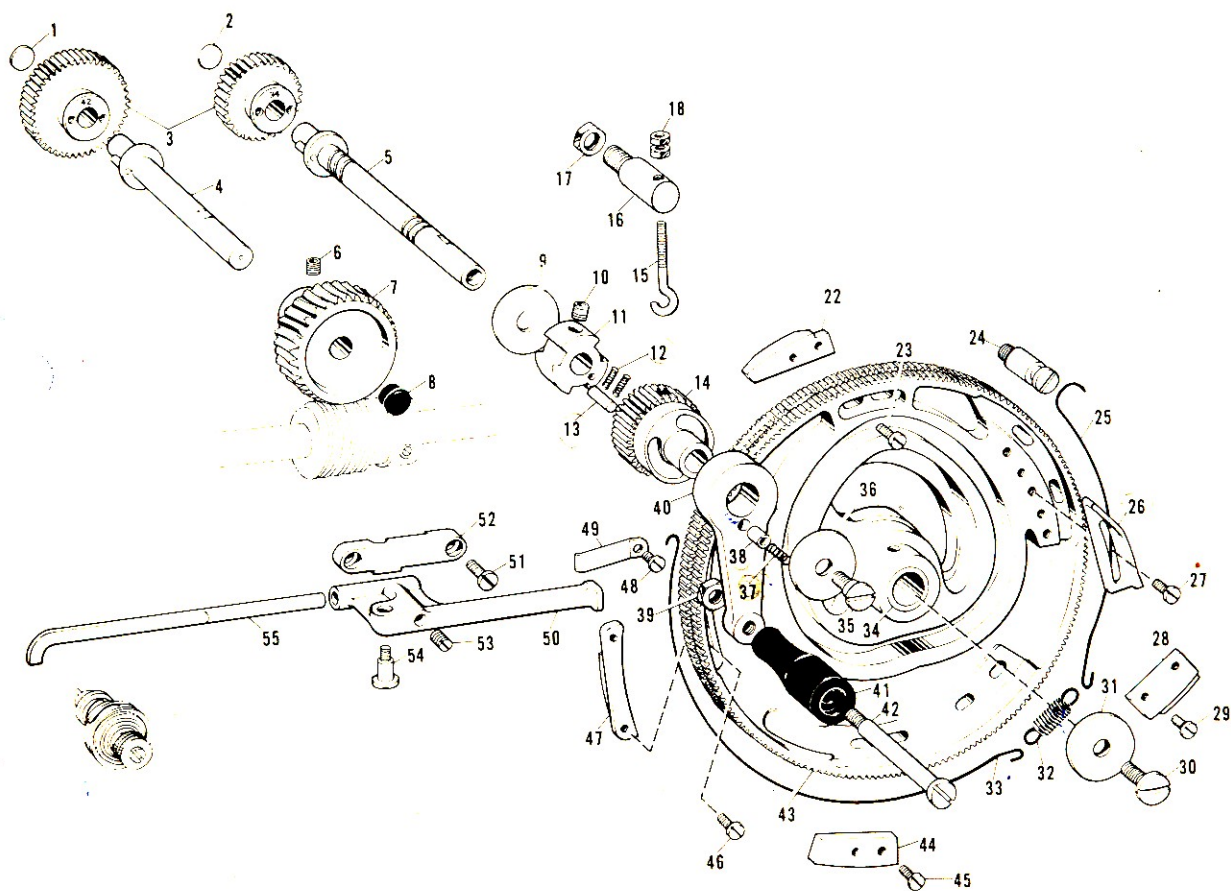
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D-1	Oil Cap	1	104449-0-01		D-20	Zigzag Adjusting Shaft	1		
D-2	Sub Shaft Bushing (Left)	1	141311-0-01		D-17	Feed Cam Shaft Bracket	1		
D-4	Sub Shaft Gear	1	141313-0-01		D-28	Nut	1	021910-3-02	141401-0-01
D-5	Screw	2	014770-6-22		D-29	Washer	1	025900-2-32	
D-6	Coller	1			D-30	Feed Cam Shaft	1		
D-7	Set Screw	2	013760-8-10	181991-0-01	D-16	Bushing	1	141404-0-00	
D-8	Sub Shaft Bushing (Right)	1	141312-0-00		D-18	Screw	3	009761-2-12	
D-9	Sub Shaft	1	141310-0-01		D-19	Oil Cap	1	104821-0-01	
D-10	Oil Cap	1	104449-0-01		D-21	Zigzag Adjusting Link Shaft	1	141328-0-01	
D-3	Zigzag Cam	1			D-22	Screw	2	009680-7-13	
D-11	Pin	1	141326-0-01		D-23	Screw	1	009670-6-12	
D-12	Zigzag Adjusting Ring Connector	1			D-24	Washer	1	102707-0-02	
D-13	Zigzag Adjusting Ring	1		147901-0-01	D-25	Zigzag Adjusting Link	1	141329-0-01	
D-14	Zigzag Adjusting Bracket	1			D-26	Screw	1	141344-0-01	
D-15	Screw	1	104908-0-02		D-27	Nut	1	403388-0-01	

E. Zigzag Mechanism



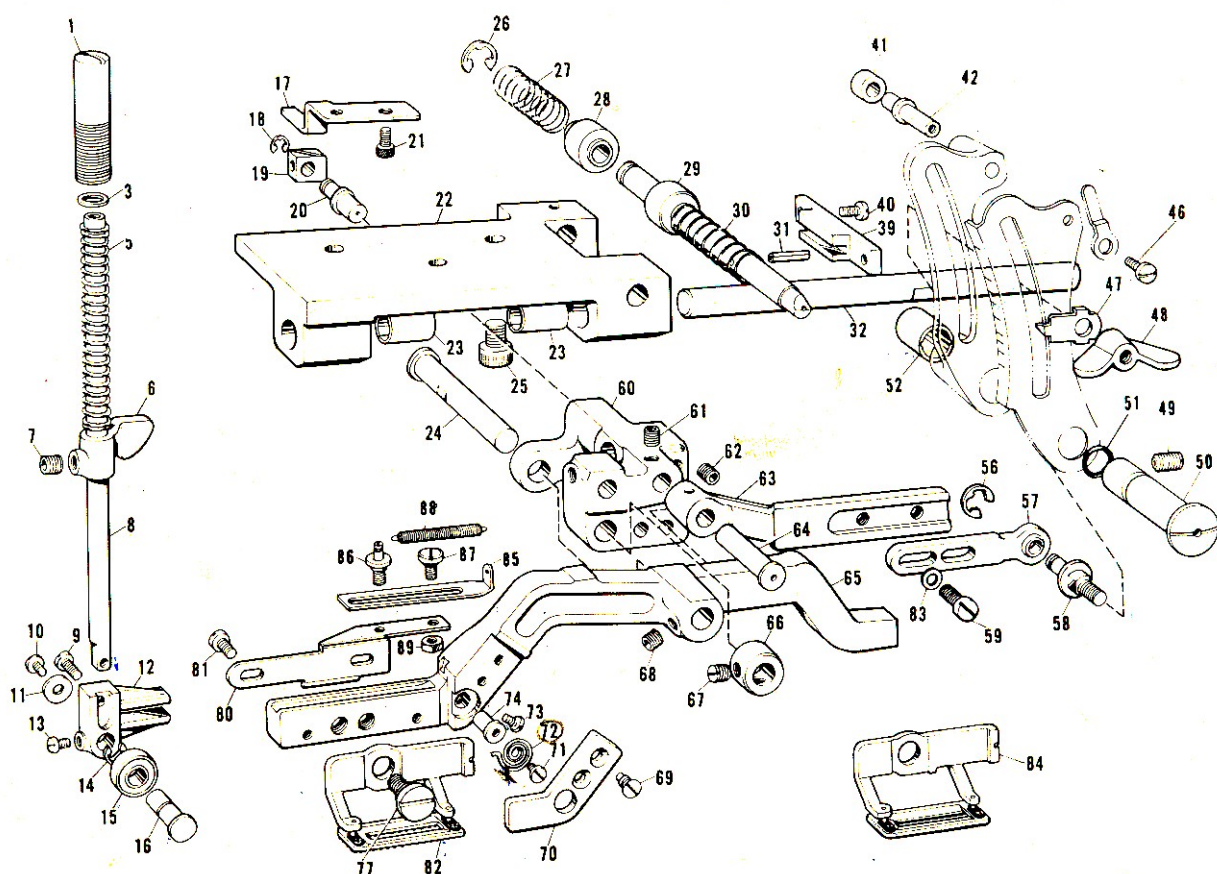
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E- 2	Zigzag Connecting Lever (B)	1	141348-0-01		E-25	Spring Hook	2	141334-0-01	
E- 3	Zigzag Connecting Lever (A)	1	141347-0-01		E-26	Spring	1	141358-0-01	
E- 4	Screw	1	009711-4-13		E-27	Stopper	1	141357-0-00	
E- 5	Zigzag Connecting Rod	1	141346-0-01		E-28	Screw	2	014760-6-22	
E- 6	Screw	1	100511-0-03		E-29	Zigzag Eccentric Shaft	1	141341-0-01	
E- 7	Nut	1	106588-0-01		E-30	Screw	1	141345-0-01	
E- 8	Screw	1	141339-0-01		E-31	Clip	1	116795-0-00	
E- 9	Zigzag Adjusting Screw	2	141336-0-01		E-32	Felt	1	117598-0-01	
E-10	Pin	2	141337-0-01		E-33	Zigzag Eccentric Shaft Link	1	141342-0-00	
E-11	Spring	2	141338-0-01		E-34	Nut	1	403388-0-01	
E-12	Zigzag Adjusting Lever	1	141335-0-00		E-35	Washer	1	141343-0-02	
E-13	Nut	1	105812-0-01		E-36	Screw	1	009761-2-12	
E-14	Screw	1	141355-0-01		E-37	Collar	1	141351-0-01	
E-15	Nut	1	105812-0-02		E-38	Screw	1	014770-6-22	
E-16	Screw	1	141356-0-01		E-39	Zigzag Connecting Shaft	2	141359-0-01	
E-17	Zigzag Position Changing Lever	1	141354-0-00		E-40	Bar Tack Connecting Shaft	1	141659-0-01	
E-19	Washer	2	110494-0-01		E-41	Bushing (Right)	3	141716-0-00	
E-20	Zigzag Adjusting Lever Shaft	1	141340-0-01		E-42	Collar	2	141366-0-01	
E-21	Screw	1	013760-6-12		E-43	Bushing (Left)	2	141365-0-00	
E-22	Pin	1	141332-0-01		E-44	Spring	1	141363-0-01	
E-23	Nut	1	106588-0-01		E-45	Stop Ring	1	048110-1-42	
E-24	Spring	1	141333-0-01		E-46	Bushing	1	147155-0-00	

F. Feed Cam Mechanism



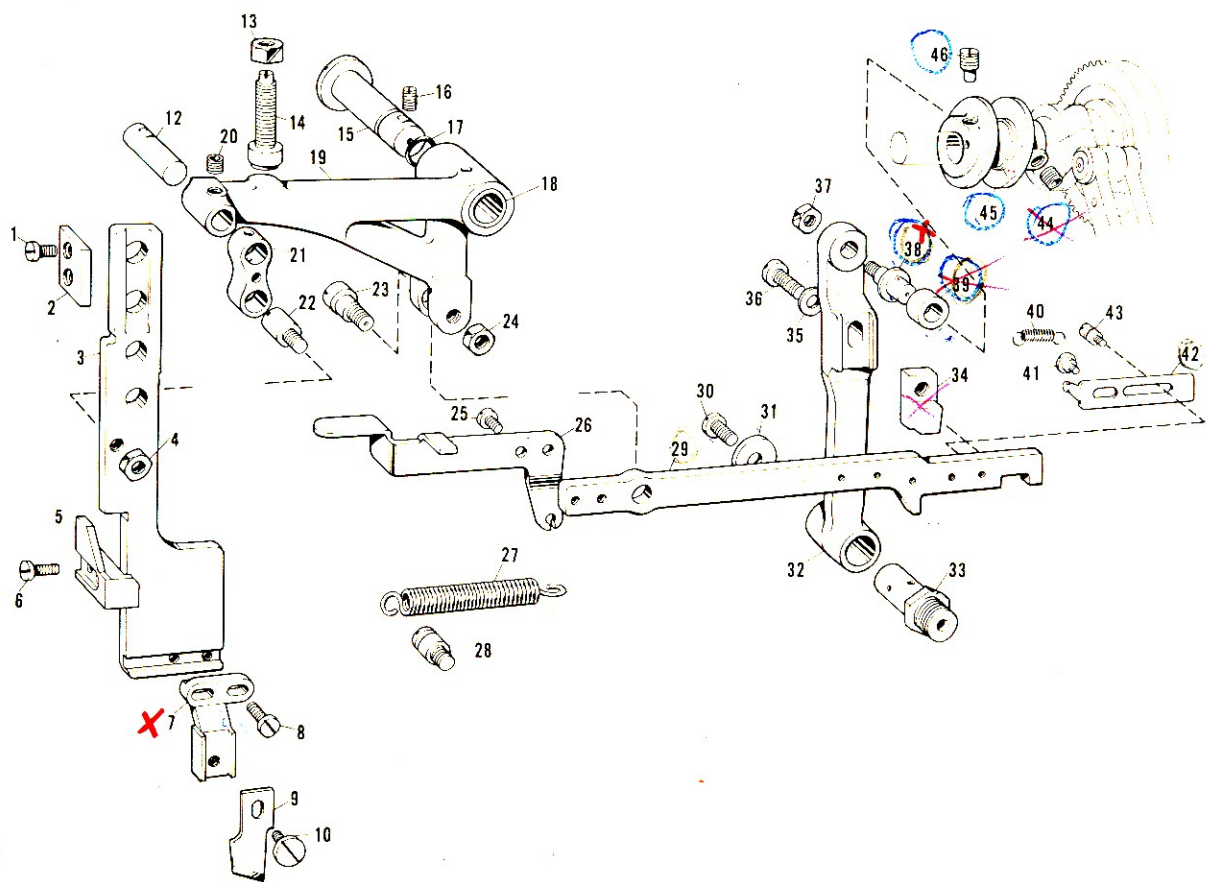
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F-1	Gear Indicator R	1	142272-0-01		F-45	Screw	2	107407-0-03	
F-2	Gear Indicator L	1	142273-0-01		F-46	Screw	1	009681-2-12	
F-3	Gear	1			F-47	Bar Tack Cam Segment	2	141445-0-01	
F-4	Worm Wheel Shaft	1	141369-0-01		F-24	Hook	1	141413-0-01	
F-5	Gear Shaft	1	141714-0-01		F-25	Cam Brake Wire B	1	141110-0-01	
F-6	Screw	2	014770-6-22		F-30	Screw	1	141408-0-01	
F-7	Worm Wheel	1	141368-0-00		F-31	Washer	1	141400-0-01	
F-8	Oil Cap	1	104821-0-01		F-32	Spring	1	141411-0-01	
F-9	Washer	1	141394-0-01		F-33	Cam Brake Wire A	1	141409-0-01	
F-10	Screw	2	014780-6-22		F-34	Bushing	1	142375-0-00	
F-11	Free Wheel Cam	1	141392-0-01	141389-0-01	F-35	Screw	1	142702-0-01	
F-12	Spring	6	141392-0-01		F-36	Washer	1	141400-0-01	
F-13	Pin	3	141393-0-01		F-37	Spring	1	141397-0-01	
F-14	Free Wheel Gear	1	141393-0-01		F-38	Pin	1	141396-0-01	
F-15	Adjusting Hook	1	140947-0-01		F-39	Nut	1	021780-3-03	
F-16	Cam Brake Hook Bracket	1	141412-0-01		F-40	Handle Lever	1	141395-0-01	
F-17	Nut	1	106147-0-01		F-41	Handle	1	141398-0-01	
F-18	Nut	2	021400-1-03		F-42	Handle Shaft	1	141399-0-01	
F-22	Thread Tension Release	1	143944-0-01		F-48	Screw	1	009670-5-12	
F-23	Screw	2	009681-2-12		F-49	Spring Plate	1	142258-0-01	
F-26	Stop Cam Segment (Large)	1	141446-0-01		F-50	Thread Release Lever	1	141596-0-01	
F-27	Screw	2	009681-0-12		F-51	Screw	2	009681-0-14	
F-28	Cutter Segment	1	141448-0-01		F-52	Thread Release Lever Bracket	1	141599-0-01	
F-29	Screw	2	107407-0-03	143942-0-01	F-53	Screw	1	013760-8-12	
F-43	Feed Cam	1			F-54	Screw	1	141598-0-01	
F-44	Thread Tension Release Segment	1	143943-0-01		F-55	Thread Release Pin	1	141597-0-01	

G. Feed and Presser Mechanism



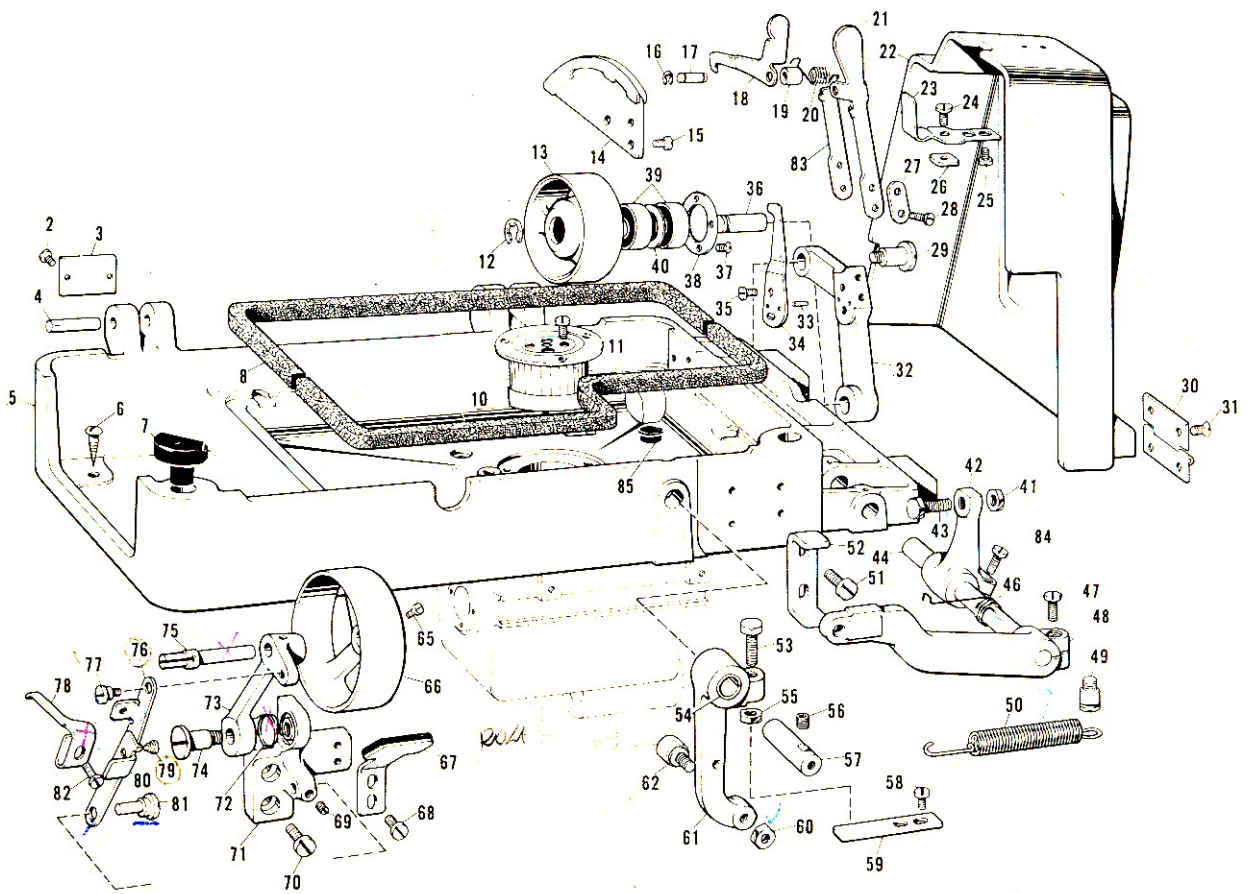
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-1	Stopper Bar	1	141454-0-01		G-47	Length Feed Indicator	1	141419-0-01	
G-3	Washer	1	100281-0-01		G-48	Wing Nut	1	118262-0-02	
G-5	Presser Bar Spring (Large)	1	141451-0-01		G-49	Screw	1	013761-0-12	
G-6	Presser Bar Bracket	1	141450-0-01		G-50	Length Feed Adjusting Lever Shaft	1	141417-0-01	
G-7	Screw	1	014770-6-22		G-51	Racking	1	141697-0-00	
G-8	Presser Bar	1	141449-0-01		G-52	Bushing	2	142372-0-00	
G-9	Screw	1	009681-0-12		G-56	Clip Ring	1	048050-3-42	
G-10	Screw	1	100366-0-02		G-57	Feed Lever B	1	141422-0-01	
G-11	Washer	1	025350-3-32		G-58	Feed Lever Joint	1	147945-0-01	
G-12	Presser Bar Roller Bracket	1	141455-0-01	141455-0-01	G-59	Screw	2	009761-0-14	
G-13	Screw	1	001670-5-12		G-60	Feed Arm Bracket	1	141430-0-01	
G-14	Stop Ring	1	048060-3-42		G-61	Screw	1	014770-6-22	
G-15	Bearing	1	141455-0-01		G-62	Screw	1	014770-6-22	
G-16	Roller Stud	1	141455-0-01		G-63	Feed Lever A	1	141421-0-01	
G-17	Stopper Plate	1	141507-0-01		G-64	Stud	1	141426-0-01	
G-18	Stop Ring	1	048040-3-42		G-65	Length Feed Arm	1	141433-0-01	X
G-19	Feed Bar Guide Block	1	118215-0-01		G-66	Set Collar	1	141440-0-01	
G-20	Stud	1	141431-0-01		G-67	Screw	2	101706-0-03	181969-0-03
G-21	Bolt	2	018400-8-22		G-68	Screw	1	014770-6-22	
G-22	Feed Guide Shaft Bracket	1	141427-0-01		G-69	Screw	2	100032-0-03	
G-23	Bushing	2	142374-0-00		G-70	Guide Plate	1	141440-0-01	
G-24	Feed Arm Shaft	1	141434-0-01		G-71	Screw	1	009669-3-13	
G-25	Bolt	3	018081-4-22		G-72	Upper Clamping Foot Spring	1	141442-0-01	
G-26	Stop Ring	1	048080-3-42		G-73	Screw	1	013689-4-12	
G-27	Cutter Clutch Spring (B)	1	141488-0-01		G-74	Stud	1	141441-0-01	
G-28	Cutter Clutch	1	141487-0-01		G-77	Screw	1	141439-0-01	
G-29	Cutter Clutch Bar	1	141484-0-01		G-81	Screw	2	009680-7-12	
G-30	Cutter Clutch Spring (A)	1	141485-0-01		G-82	Upper Clamping Foot	1		X
G-31	Pin	1	047301-8-42		G-80	Thread Scissor Guide	1	141515-0-01	
G-32	Feed Guide Shaft	1	141429-0-01		G-85	Thread Trimming Supporter	1	146000-0-01	
G-39	Cutter Clutch Bar Guide	1	141486-0-01		G-86	Screw	1	146002-0-01	
G-40	Screw	2	009670-8-12		G-87	Screw	1	146001-0-01	145999-0-01
G-41	Roller	1	107550-0-02		G-88	Spring	1	118352-0-01	
G-42	Roller Stud	1	141420-0-01		G-89	Nut	2	021660-1-02	
G-46	Screw	1	009670-6-13						

H. Cutter Mechanism



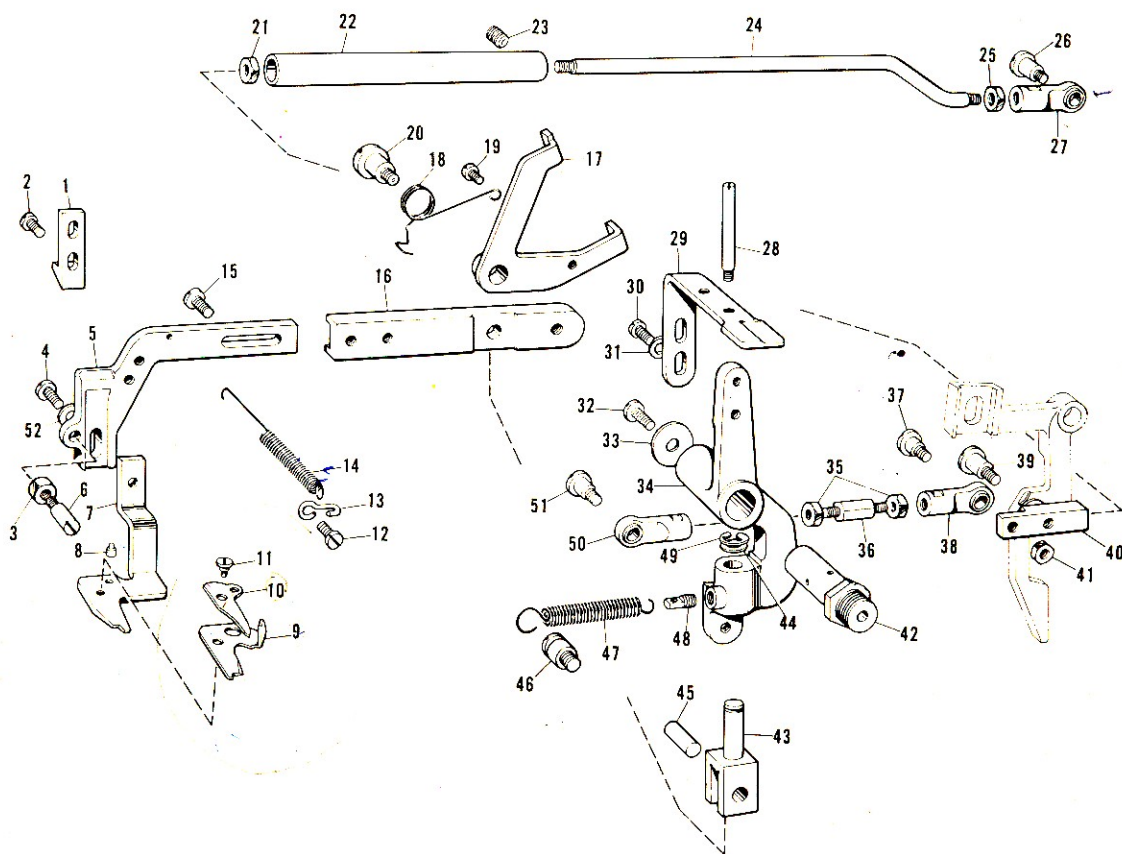
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H- 1	Screw	2	009680-7-12		H-25	Screw	2	009680-8-14	
H- 2	Cutter Base Guide (Upper)	1	141478-0-01		H-26	Cutter Stop Lever	1	141468-0-01	
H- 3	Cutter Base	1	141477-0-01		H-27	Spring	1	111471-0-01	
H- 7	Cutter Holder	1	141477-0-01	142724-0-01	H-28	Spring Hook	1	141472-0-01	
H- 8	Screw	2	107407-0-02		H-29	Cutter Lever	1	141467-0-01	
H- 4	Nut	1	021760-3-04		H-30	Screw	1	009761-2-12	
H- 5	Cutter Base Guide (Lower)	1	141479-0-01		H-31	Washer	1	141343-0-02	
H- 6	Screw	2	009681-4-12		H-32	Cutter Connecting Lever	1	141462-0-01	
H- 9	Cutter	1			H-33	Stud	1	141463-0-01	
H-10	Screw	1	115503-0-01		H-34	Cutter Connecting Slide Block	1	141466-0-01	
H-12	Stud	1	141474-0-01		H-35	Washer	1	118735-0-02	
H-13	Nut	1	022870-1-04		H-36	Screw	1	009771-8-12	
H-14	Cutter Base Lifter Stopper	1	141481-0-01		H-37	Nut	1	106588-0-01	
H-15	Length Feed Adjusting Lever Shaft	1	141417-0-01		H-38	Stud	1	141465-0-01	
H-16	Screw	1	013781-0-12		H-39	Roller	1	141464-0-01	
H-17	Packing	1	141697-0-00		H-40	Spring	1	120790-0-01	
H-18	Lever	1	142376-0-00		H-41	Screw	2	112144-0-01	
H-19	Cutter Base Lifter	1	141473-0-01		H-42	Clutch	1	142779-0-01	
H-20	Screw	1	014770-6-22		H-43	Spring Hook	1	107126-0-01	
H-21	Cutter Base Connecting Link	1	141475-0-01		H-44	Screw	1	014770-6-22	
H-22	Screw	1	141476-0-01		H-45	Cutter Cam	1		181250-0-01
H-23	Screw	1	141469-0-01		H-46	Screw	1	141717-0-01	
H-24	Nut	1	110744-0-02						

I. Bobbin Winder and Tension Pully Mechanism



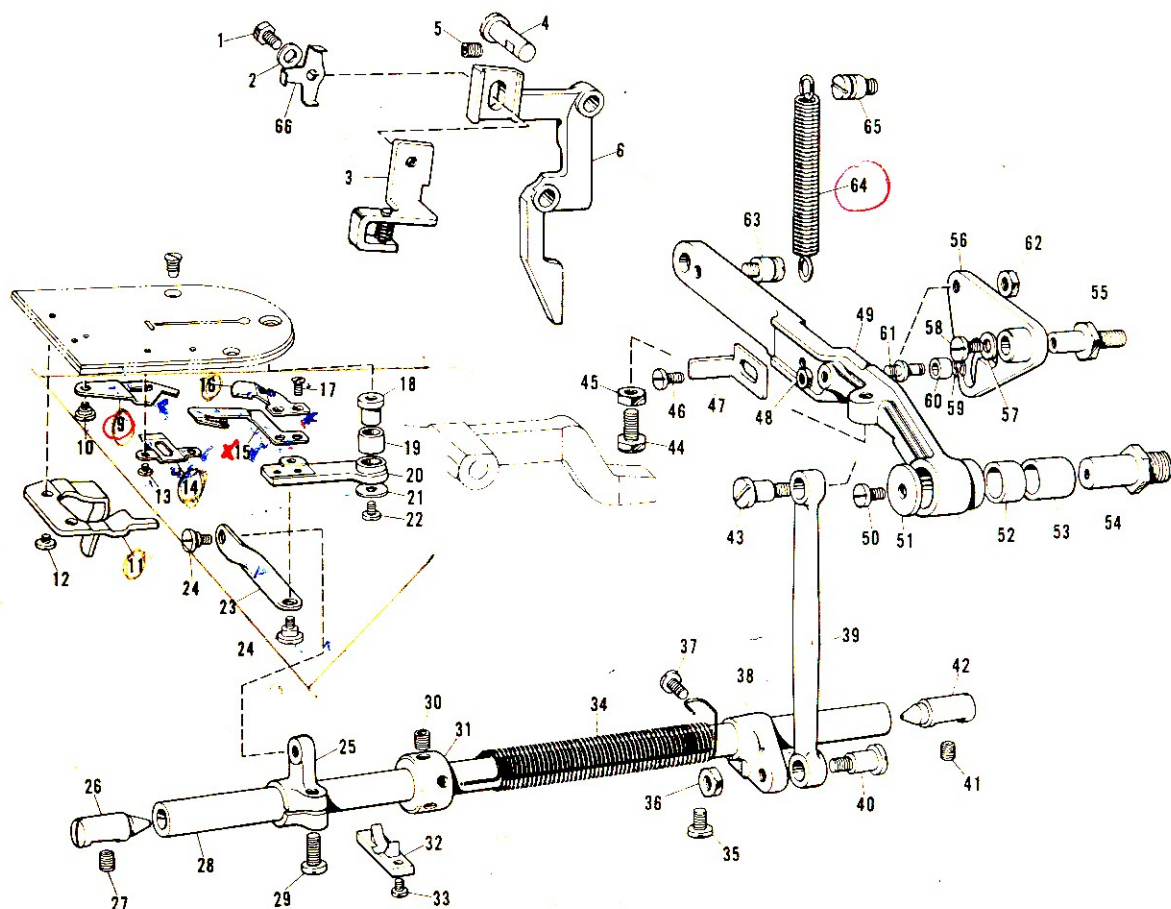
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1-2	Screw	4	009680-7-12	141621-0-01	1-42	Clutch Starting Lever	1	146955-0-01	141576-0-01
1-3	Head Hook Plate	2	142312-0-01		1-43	Bolt	1	115585-0-01	
1-4	Pin	2	141257-0-01		1-44	Clutch Starting Lever Shaft	1	146960-0-01	
1-5	Head Base	1	141259-0-01		1-81	Screw	2	009711-4-12	
1-6	Screw	4	101125-0-01		1-46	Clutch Starting Lever Spring	1	141562-0-01	
1-7	Head Cushion	2	141258-0-01		1-47	Screw	1	009761-4-13	
1-8	Cork Packing	2	114747-0-01		1-48	Clutch Starting Lift Lever	1	146958-0-01	
1-10	Oil Filter Assembly	1	146209-0-01		1-49	Spring Hook	1	141472-0-01	
1-11	Screw	3	009680-7-12		1-50	Spring	1	141581-0-01	
1-12	Stop Ring	1	018090-3-12		1-51	Screw	2	009761-2-11	
1-13	Tension Pulley	1	141621-0-01		1-52	Stopper	1	141564-0-01	
1-16	Stop Ring	2	018030-3-12		1-53	Bolt	1	115585-0-01	
1-17	Stop	1	141628-0-01		1-54	Bushing	2	142373-0-00	
1-18	Tension Pulley Pawl	1	141630-0-01		1-55	Nut	1	022840-3-03	
1-19	Collar	1	141627-0-01		1-56	Screw	1	014770-6-22	
1-20	Spring	1	141627-0-01		1-57	Belt Shift Lever Pin	1	141579-0-01	
1-21	Tension Pulley Lever	1	141627-0-01		1-58	Screw	2	009680-8-12	
1-27	Washer	1	141627-0-01		1-59	Stopper Plate	1	141580-0-01	
1-28	Screw	2	007671-2-12		1-60	Nut	1	021750-1-03	
1-29	Screw	1	141627-0-01		1-61	Belt Shift Lever	1	141575-0-01	
1-32	Tension Pulley Arm	1	141627-0-01		1-62	Roller Stud	1	141575-0-01	
1-33	Pin	2	047250-8-42	141601-0-01	1-63	Roller	1	141575-0-01	141576-0-01
1-34	Tension Pulley Indicator	1	141625-0-01		1-65	Screw	1	013689-4-12	
1-35	Screw	2	009670-6-12		1-66	Bobbin Winder Wheel	1	141611-0-01	
1-36	Tension Pulley Shaft	1	141627-0-01		1-67	Bobbin Winder Brake	1	141611-0-01	
1-37	Screw	3	110185-0-02		1-68	Screw	2	009680-7-12	
1-38	Cap Plate	1	141316-0-01		1-69	Screw	1	013679-4-12	
1-39	Bearing 600DD	2	141627-0-01		1-71	Bobbin Winder Wheel	1	141627-0-01	
1-40	Washer	1	141627-0-01		1-72	Bobbin Winder Arm Spring	1	142259-0-01	
1-83	Tension Lever	1	141627-0-01		1-73	Bobbin Winder Arm	1	141627-0-01	
1-14	Tension Pulley Ratchet	1	141633-0-01		1-74	Screw	1	141604-0-01	
1-15	Screw	3	009680-8-12		1-75	Bobbin Winder Shaft	1	141610-0-01	
1-22	Belt Cover	1	141245-0-01		1-76	Bobbin Winder Link B	1	141610-0-01	
1-23	Belt Cover Spring Plate	1	141246-0-01		1-77	Screw	1	100659-0-01	
1-24	Screw	2	009689-4-12		1-78	Bobbin Presser	1	141608-0-01	
1-25	Screw	1	009689-4-12		1-79	Pin	1	100661-0-01	
1-26	Belt Cover Stopper Pin	1	141247-0-01		1-80	Bobbin Winder Link (A)	1	141608-0-01	
1-30	Belt Cover Hinge	2	107372-0-01		1-81	Stud	1	141608-0-01	
1-31	Screw	8	107231-0-01		1-82	Screw	1	507142-0-02	
1-41	Nut	1	022840-3-03		1-70	Screw	2	009761-2-14	
					1-85	Oil Cap	1	117934-0-01	

J. Upper Thread Trimmer Mechanism



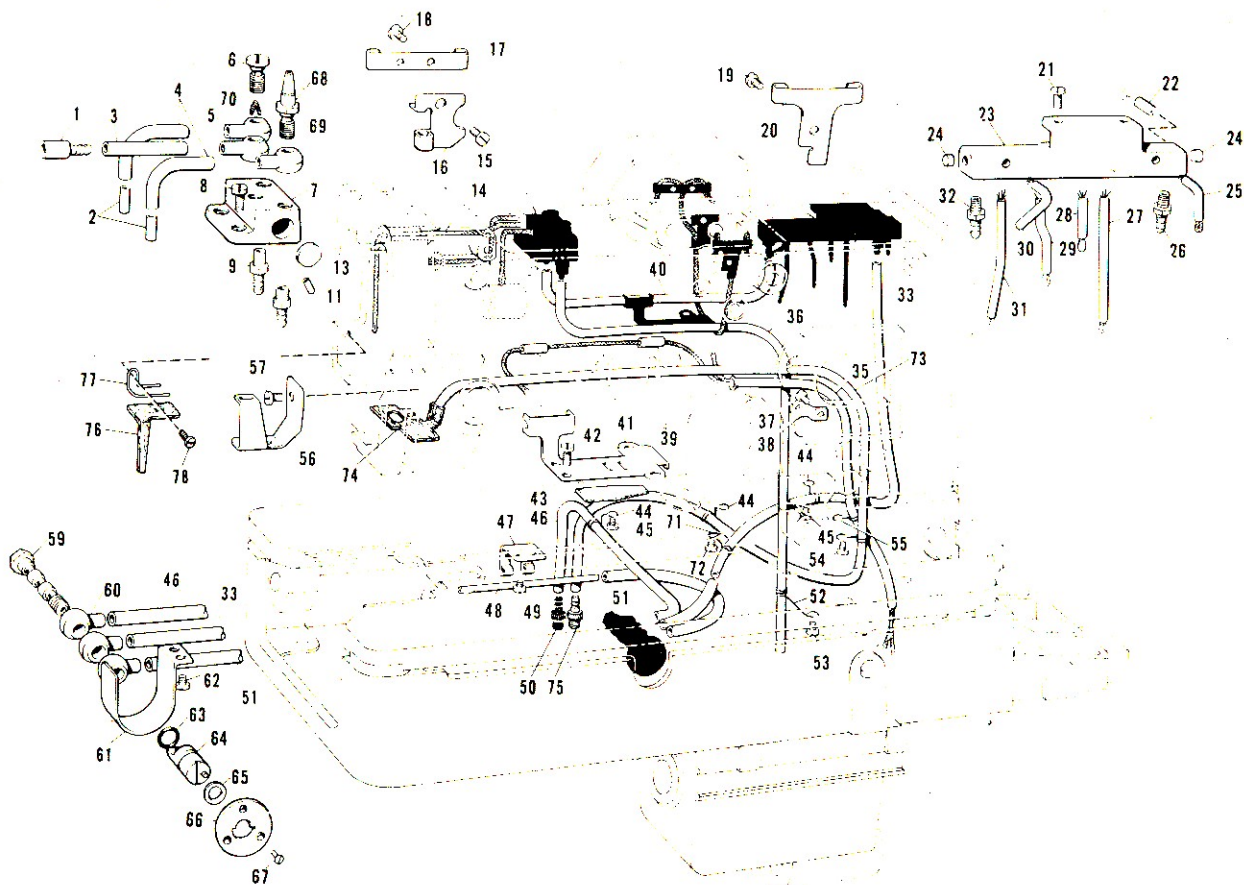
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J- 1	Upper Thread Trimming Cam	1	141516-0-01		J-27	Joint	1	141492-0-01	
J- 2	Screw	2	009681-0-12		J-28	Thread Guide Pin	1	141592-0-01	
J- 3	Nut	1	110161-0-03		J-29	Upper Tension Releaser	1	145673-0-01	
J- 4	Screw	1	009710-8-12		J-30	Screw	2	009680-8-12	
J- 5	Upper Thread Trimming Lever (B)	1	141502-0-01		J-31	Washer	2	025680-2-32	
J- 6	Screw	1	141504-0-01		J-32	Screw	1	009761-2-12	
J- 7	Upper Thread	1	141511-0-01		J-33	Washer	1	141343-0-02	
J- 8	Stopper Pin	1	141511-0-01		J-34	Upper Thread Trimming Lever Holder	1	147565-0-01	
J- 9	Upper Thread Middle Blade	1	141514-0-01	141509-0-01	J-35	Nut	1	100022-0-05	
J-10	Upper Thread Upper Blade	1	114513-0-01		J-36	Upper Thread Trimming Connecting Bar (S)	1	141490-0-01	
J-11	Screw	1	141514-0-01		J-37	Screw	1	141494-0-01	
J-12	Screw	1	009680-7-14		J-38	Joint	1	141492-0-01	
J-13	Spring Hook	1	141506-0-01		J-39	Screw	1	115493-0-02	
J-14	Spring	1	141505-0-01		J-40	Upper Thread Trimming Connecting Block	1	141491-0-01	
J-15	Screw	1	107407-0-02		J-41	Nut	1	100022-0-05	
J-16	Upper Thread Trimming Lever (A)	1	141497-0-01		J-42	Stud	1	141463-0-01	
J-17	Lever Driving Positioner	1	145998-0-01		J-43	Hinge	1	141496-0-01	
J-18	Spring	1	141500-0-01		J-44	Washer	1	100281-0-01	
J-19	Screw	1	009670-4-12		J-45	Pin	1	141501-0-01	
J-20	Screw	1	141499-0-01		J-46	Spring Hook	1	141472-0-01	
J-21	Nut	1	100022-0-05		J-47	Spring	1	141517-0-01	
J-22	Connecting Pipe	1	141718-0-01		J-48	Spring Hook	1	107639-0-01	
J-23	Screw	1	014760-6-22		J-49	Stop Ring	1	048060-3-42	
J-24	Upper Thread Trimming Connecting Bar (L)	1	141489-0-01		J-50	Joint	1	141492-0-01	
J-25	Nut	1	100022-0-05		J-51	Screw	1	141494-0-01	
J-26	Screw	1	141494-0-01		J-52	Washer	1	025710-2-32	

K. Lower Thread Trimmer Mechanism



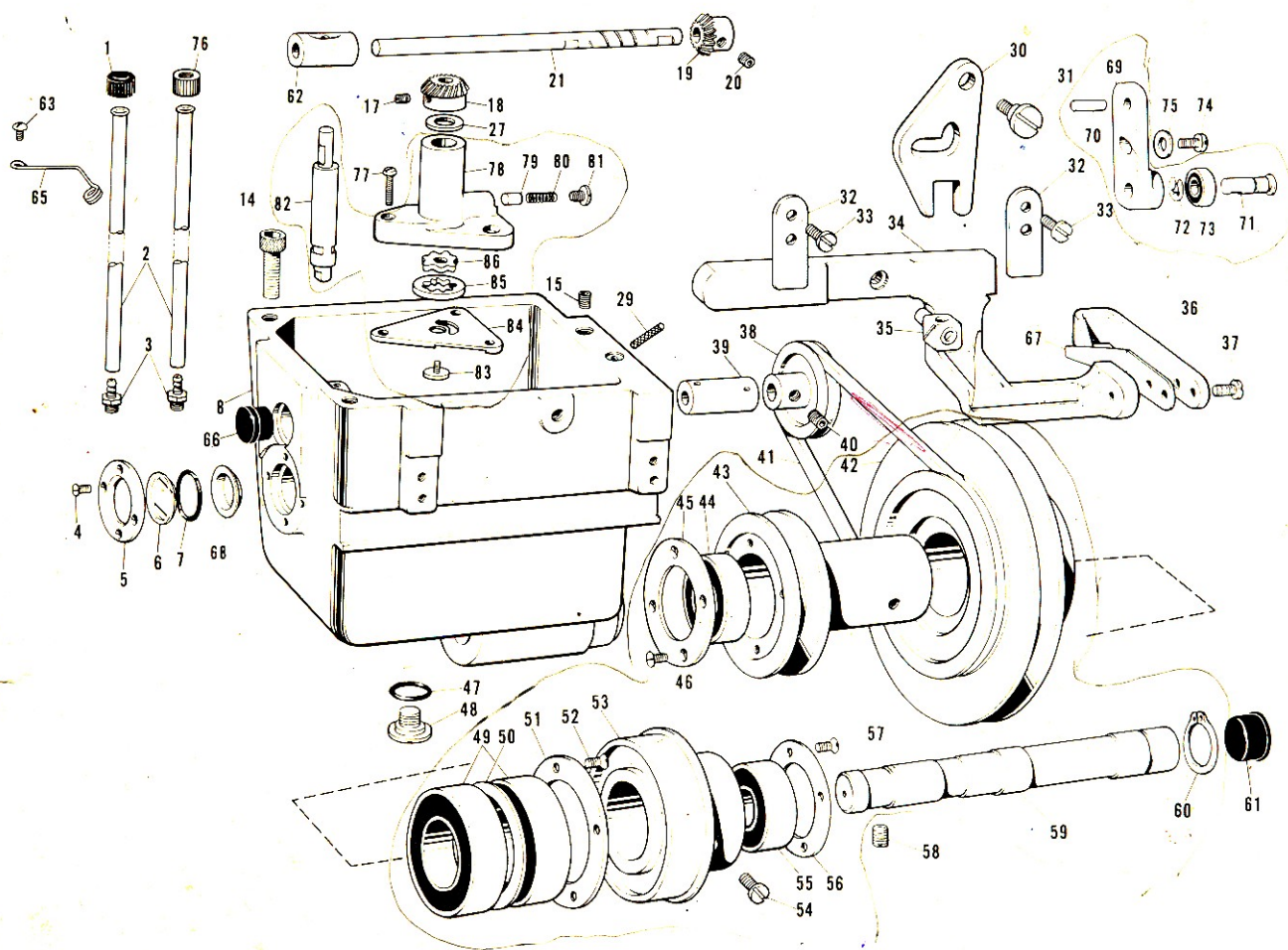
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
K-1	Bolt	1	017751-4-12		K-35	Screw	1	009681-2-12	
K-2	Washer	1	107453-0-01		K-36	Nut	1	021780-3-02	
K-3	Cutter Lever Supporting Plate	1	143945-0-01		K-37	Screw	1	009761-2-12	
K-4	Stud	1	143788-0-01		K-38	Lower Thread Trimming Shaft Arm (A)	1	141529-0-01	
K-5	Screw	1	014760-6-22		K-39	Lower Thread Trimming Connecting Link	1	141527-0-01	
K-6	Lower Thread Trimming Safety Stopper	1	141522-0-01		K-40	Screw	1	141528-0-01	
K-7	Screw	2	100032-0-03		K-41	Screw	1	013761-0-12	
K-9	Lower Thread Releaser	1	142419-0-01		K-42	Taper Center Right	1	104848-0-01	
K-10	Screw	1	142420-0-01		K-43	Screw	1	141528-0-01	
K-11	Rotary Hook Holder Position Bracket	1	141308-1-01		K-44	Bolt	1	115585-0-01	
K-12	Screw	2	009680-5-12		K-45	Nut	1	022840-3-03	
K-13	Screw	2	141544-0-01		K-46	Screw	1	107407-0-03	
K-14	Fixed Knife	1	141543-0-01		K-47	Upper Thread Trimming Detach. Plate	1	141508-0-01	
K-15	Lower Thread Release Plate	1	142416-0-01		K-48	Nut	1	110161-0-01	
K-16	Movable Knife	1	141541-0-01		K-49	Lower Thread Cutter Lever	1	141518-0-01	
K-17	Screw	2	141542-0-01		K-50	Screw	1	009761-0-13	
K-18	Bushing (A)	1	141538-0-01		K-51	Washer	1	141343-0-01	
K-19	Bushing (B)	1	141539-0-01		K-52	Bushing	1	142373-0-00	
K-20	Knife Setting Plate	1	141537-0-01		K-53	Bushing	1	142372-0-00	
K-21	Washer	1	512769-0-01		K-54	Lower Thread Trimming Lever Shaft	1	141520-0-01	
K-22	Screw	1	105451-0-01		K-55	Stud	1	141526-0-01	
K-23	Link	1	141534-0-01		K-56	Lower Thread Trimming Cam	1	141523-0-01	
K-24	Screw	2	141535-0-01		K-57	Washer	1	025050-2-33	
K-25	Lower Thread Trimming Shaft Arm (B)	1	141533-0-01		K-58	Screw	1	106629-0-01	
K-26	Taper Center Left	1	104847-0-01		K-59	Stop Ring	1	048030-3-42	
K-27	Screw	1	013761-0-12		K-60	Roller	1	107744-0-01	
K-28	Lower Thread Trimming Shaft	1	141530-0-01		K-61	Roller Stud	1	141519-0-01	
K-29	Screw	1	107274-0-02		K-62	Nut	1	021780-3-02	
K-30	Screw	2	014770-6-22		K-63	Spring Hook	1	141472-0-01	
K-31	Collar	1	141532-0-01		K-64	Spring	1	141521-0-01	
K-32	Shaft Supporter	1	141545-0-01		K-65	Spring Hook	1	141472-0-01	
K-33	Screw	2	009670-6-12		K-66	Washer	1	143927-0-01	
K-34	Spring	1	141531-0-01						

L. Lubrication



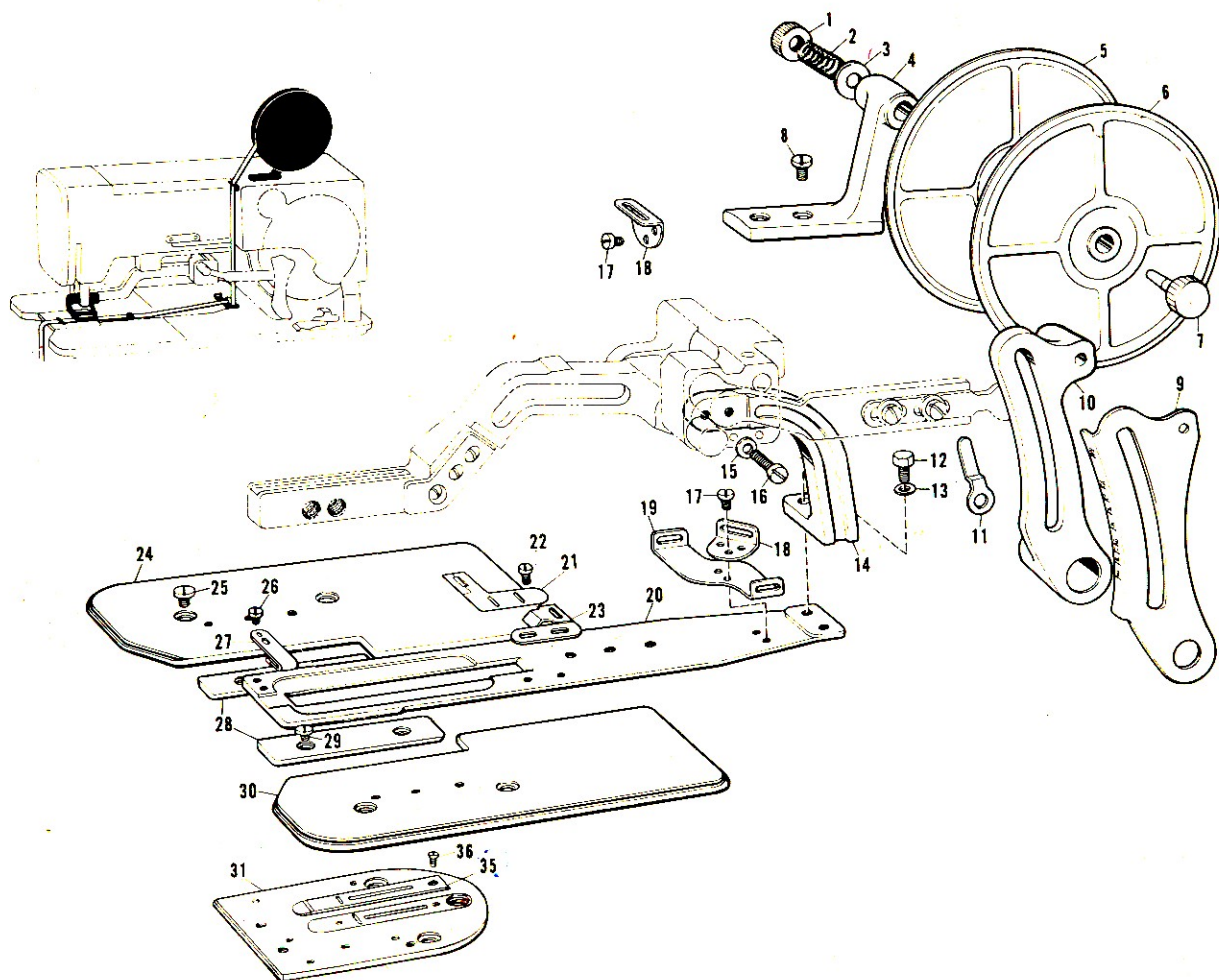
Ref. No.	Name of Parts	Qty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Qty	Parts No.	Assembly No.
L-1	Oil Feeding Pipe (B)	1	141680-0-01		L-40	Vinyl Tube	1	141670-0-00	
L-2	Vinyl Tube (B)	2	141679-0-00		L-41	Vinyl Tube Holder	1	141671-0-01	
L-3	Vinyl Tube	1	141681-0-01	142355-0-01	L-42	Screw	2	009670-8-12	
L-5	Vinyl Tube Joint	1	141682-0-01		L-43	Felt	1	141672-0-00	
L-4	Vinyl Tube	2	141683-0-01	142354-0-01	L-44	Tube Stopper	3	112744-0-01	
L-5	Vinyl Tube Joint	2	112359-0-01		L-45	Screw	2	009670-5-12	
L-6	Screw	2	112359-0-01		L-46	Vinyl Tube	1		142351-0-01
L-7	Wick Base (A)	1	141673-0-00	142413-0-01	L-60	Vinyl Tube Joint	1		
L-13	Cap	1	141673-0-00		L-47	Tube Holder	1	141656-0-01	
L-8	Screw	2	009670-8-12		L-48	Oil Pipe for Rotary Hook	1	141655-0-00	
L-9	Oil Feeding Pipe	2	142359-0-01		L-49	Screw	2	009670-6-12	
L-11	Vinyl Tube	1	143177-0-01		L-50	Oil Feeding Pipe	1	142748-0-01	
L-14	Wick	1	141680-0-01		L-51	Vinyl Tube	1		142352-0-01
L-15	Screw	1	009680-6-12		L-60	Vinyl Tube Joint	1		
L-16	Wick Holder (B)	1	141686-0-01		L-52	Tube Stopper	1	116975-0-01	
L-17	Wick Holder (C)	1	141688-0-01		L-53	Screw	1	009670-5-12	
L-18	Screw	2	100242-0-03		L-54	Screw	1	009670-5-12	
L-19	Screw	1	009680-6-12		L-55	Tube Stopper	1	141692-0-01	
L-20	Wick Holder (A)	1	141685-0-01		L-56	Wick Holder (B)	1	141689-0-01	
L-21	Screw	2	009670-8-12		L-57	Screw	1	107419-0-02	
L-22	Oil Tube (A)	1	141663-0-01		L-59	Oil Feeding Pipe	1	141651-0-01	
L-23	Wick Base (B)	1	141664-0-01	141661-0-01	L-61	Cover	1	141654-0-01	
L-24	Oil Cap	2	110104-0-00		L-62	Screw	2	009670-6-12	
L-25	Oil Tube (B)	1	141664-0-01		L-63	Packing	1	104564-0-01	
L-27	Oil Tube (C)	1	141665-0-01		L-64	Oil Adjusting Bracket	1	141652-0-01	
L-28	Oil Pipe	1	116968-0-01		L-65	Washer	1	100052-0-01	
L-29	Oil Tube (B)	1	141666-0-01		L-66	Cap Plate	1	141653-0-01	
L-30	Oil Tube (G)	1	141668-0-01		L-67	Screw	3	102538-0-02	
L-31	Oil Tube (F)	1	141667-0-01		L-68	Pipe for Oil Gauge Window	1	143715-0-01	
L-26	Oil Feeding Pipe	1	142359-0-01		L-69	Screw	1	143716-0-01	
L-32	Oil Feeding Pipe	1	142359-0-01		L-70	Wick	2	147724-0-01	
L-33	Vinyl Tube	1		142353-0-01	L-71	Wick Holder	1	112743-0-01	
L-60	Vinyl Tube Joint	1			L-72	Screw	1	009670-5-12	
L-35	Vinyl Tube	1	142742-0-00		L-73	Vinyl Tube	1		148472-0-01
L-36	Vinyl Tube	1	141683-0-00		L-74	Felt	1		
L-37	Screw	1	009670-5-12		L-75	Oil Feeding Pipe	1	142748-0-02	
L-38	Tube Holder	1	142268-0-01		L-76	Felt	1	148745-0-00	
L-39	Vinyl Tube	2	120774-0-01		L-77	Presser Spring	1	148746-0-01	
					L-78	Screw	1	009680-6-12	

M. Transmitter Mechanism



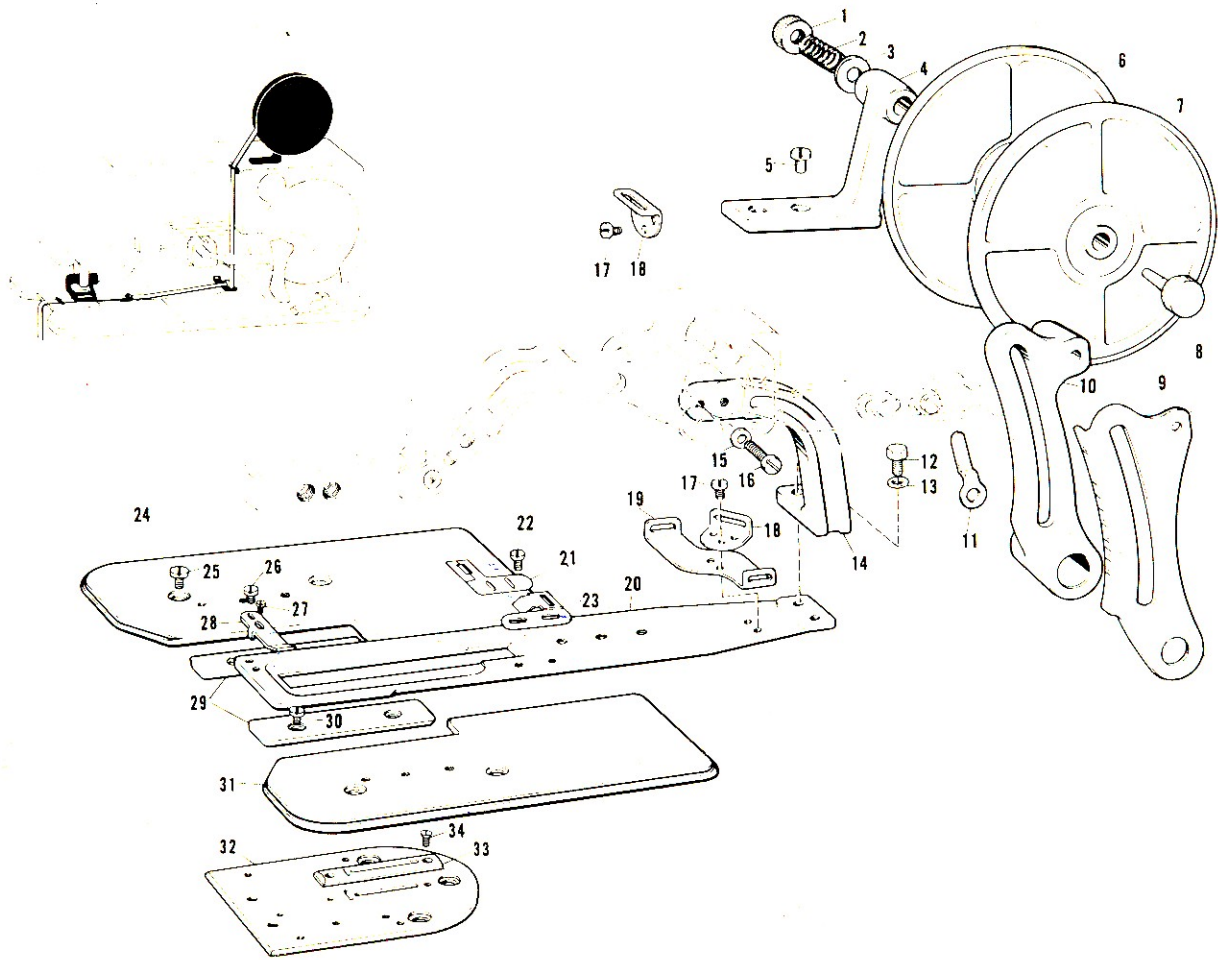
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M-1	Nut	1	142750-0-01		M-52	Screw	4	003660-8-12	
M-2	Vinyl Tube	2	141647-0-00		M-53	Pulley	1	141522-0-01	
M-3	Oil Feeding Pipe	2	142359-0-01		M-54	Screw	2	009714-4-12	
M-4	Screw	4	102538-0-02		M-55	Bearing 6004vv	1	025060-4-12	
M-5	Oil Gauge Flange	1	104546-0-01		M-56	Bearing Cap	1	141523-0-01	
M-6	Oil Gauge Window	1	141696-0-01		M-57	Screw	4	003660-8-12	141566 0-01
M-7	O Ring	1	081014-6-70		M-59	Transmitter Shaft	1	141524-0-01	
M-8	Transmitter Base	1	147222-0-01	X	M-60	Stop Ring	1	048200-1-42	
M-14	Bolt	3	018082-5-22		M-47	Packing	1	109203-0-01	
M-15	Screw	1	014760-6-22		M-48	Screw	1	110641-0-01	
M-17	Screw	2	014770-6-22		M-58	Screw	2	013781-0-12	
M-18	Pump Shaft Gear	1	141584-0-01	143915-0-01	M-61	Oil Cap	1	111937-0-01	
M-19	Lower Shaft Gear	1	117015-0-01		M-62	Bushing (Front)	1	143983-0-01	
M-20	Screw	2	014770-6-22		M-63	Screw	1	001670-6-14	
M-21	Pump Pulley Shaft	1	143982-0-01		M-65	Tube Stopper	1	116975-0-01	X
M-27	Washer	1	107153-0-01		M-66	Oil Cap	1	108520-0-01	
M-29	Wick	1	141669-0-00		M-67	Spring	1	145931-0-01	
M-30	Belt Shifter Cam	1	141582-0-00		M-68	Oil Plate	1	147226-0-01	
M-31	Screw	1	141583-0-01		M-69	Pump Belt Tension Lever	1	141525-0-01	
M-32	Belt Shifter Guide	2	141588-0-01		M-70	Pin	1		
M-33	Screw	4	009680-8-13		M-71	Pump Belt Tension Roller Stud	1		147223-0-01
M-34	Belt Shifter Bracket	1	141565-0-01	141584-0-01	M-72	Stop Ring	1	048060-3-42	
M-35	Slide Block	1	141566-0-01		M-73	Bearing	1		
M-36	Belt Shifter	1	141589-0-01		M-74	Screw	1	009761-2-12	
M-37	Screw	2	009711-0-13		M-75	Washer	1	025060-2-32	
M-38	Oil Pump Pulley	1	141637-0-00		M-76	Nut	1	142750-0-02	
M-39	Bushing	1	142766-0-01		M-77	Screw	3	009711-4-12	
M-40	Screw	2	013770-7-10		M-78	Pump Body	1	148468-0-01	
M-41	V-Belt	1	141636-0-00		M-79	Plunger	1	148471-0-01	
M-42	Slow Speed Pulley	1	141568-0-01		M-80	Spring	1	144876-0-01	
M-43	Pulley	1	141571-0-01		M-81	Screw	1	112467-0-01	148761-0-01
M-44	Bearing 6004vv	1	025060-4-12		M-82	Pump Shaft	1	148469-0-01	
M-45	Bearing Cap	1	141523-0-01		M-83	Screw	1	145465-0-01	
M-46	Screw	4	003660-8-12		M-84	Pump Cap Plate	1	148470-0-00	
M-49	Bearing 6007vv	2	025060-7-10	141566-0-01	M-85	Oil Pump Outer Roter	1	141642-0-00	
M-50	Bearing Washer	1	141564-0-00		M-86	Oil Pump Inner Roter	1	141643-0-00	
M-51	Bearing Cap	1	141524-0-01						

N. Parts for LH4-B814-2



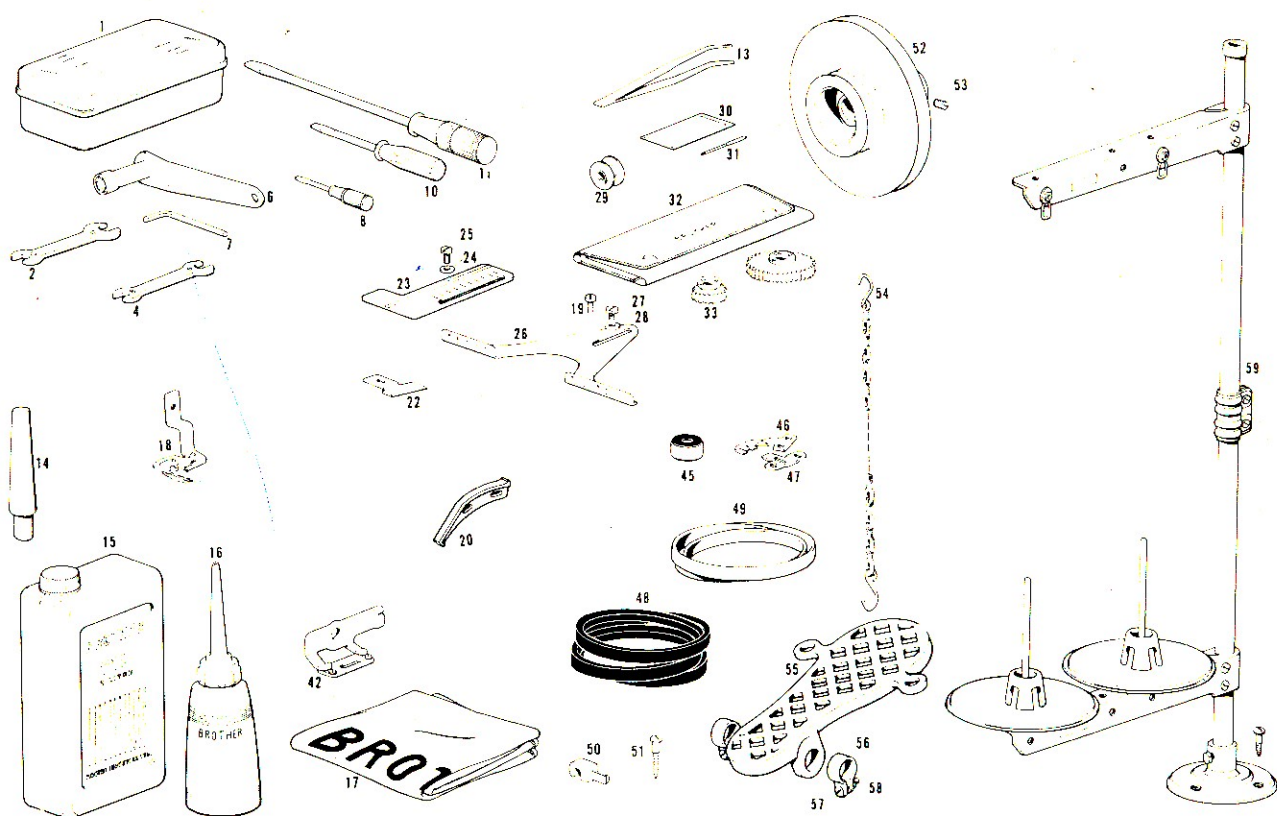
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
N- 1	Nut	1	100136-0-01	143767-0-01	N-18	Tape Guide Upper	2	143748-0-01	
N- 2	Spring	1	108495-0-01		N-19	Tape Guide Lower	1	143749-0-01	
N- 3	Washer	1	108494-0-01		N-20	Length Feed Plate	1	145248-0-01	
N- 4	Tape Winder Bracket	1	143250-0-01		N-21	Tape Guide Front	1	144999-0-01	
N- 5	Tape Holder Plate (L)	1	143276-0-01		N-22	Screw	2	105288-0-02	
N- 6	Tape Holder Plate (R)	1	143277-0-01		N-23	Tape Guard Rear	1	144998-0-01	
N- 7	Screw	1	143980-0-01		N-24	Bed Cover	1	143742-0-01	
N- 8	Screw	2	107407-0-02		N-25	Screw	4	107407-0-02	
N- 9	Length Feed Indicator Plate	1	143740-0-01		N-26	Screw	2	122771-0-02	
N-10	Length Feed Adjusting Lever	1	143739-0-01		N-27	Tape Guard Front	1	144997-0-01	
N-11	Stopper	1	144541-0-01		N-28	Length Feed Guide Plate	2	143743-0-01	
N-12	Bolt	2	017681-0-14	X	N-29	Screw	4	106568-0-01	
N-13	Washer	2	113431-0-01		N-30	Bed Cover Right	1	143741-0-01	
N-14	Lower Feed Arm	1	143738-0-01		N-31	Base Plate	1	145245-0-01	145244-0-01
N-15	Washer	2	100645-0-03		N-35	Needle Plate	1	145246-0-01	
N-16	Screw	2	009682-0-14		N-36	Screw	2	145247-0-01	
N-17	Screw	4	009660-4-14						

O. Parts for LH4-B814-3



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
O- 1	Nut	1	100136-0-01	143767-0-01	O-19	Tape Guide Lower	1	143749-0-01	144633-0-01
O- 2	Spring	1	108495-0-01		O-20	Length Feed Plate	1	144627-0-01	
O- 3	Washer	1	108494-0-01		O-21	Tape Guide Front	1	144999-0-01	
O- 4	Tape Winder Bracket	1	143748-0-01		O-22	Screw	2	105288-0-02	
O- 5	Tape Holder Plate (L)	1	143748-0-01		O-23	Tape Guide Rear	1	144998-0-01	
O- 6	Tape Holder Plate (R)	1	143748-0-01		O-24	Bed Cover Left	1	143742-0-01	
O- 7	Screw	1	143980-0-01		O-25	Screw	4	107407-0-02	
O- 9	Length Feed Indicator Plate	1	143740-0-01		O-26	Screw	1	122771-0-02	
O-10	Length Feed Adjusting Lever	1	143739-0-01		O-27	Screw	1	105970-0-01	
O-11	Stopper	1	144541-0-01		O-28	Tape Guard Front	1	144628-0-01	
O-12	Bolt	2	017681-0-14		O-29	Length Feed Guide Plate	2	143743-0-01	
O-13	Washer	2	113431-0-01		O-30	Screw	4	106568-0-01	
O-14	Lower Feed Arm	1	143738-0-01		O-31	Bed Cover Right	1	143741-0-01	
O-15	Washer	2	100645-0-03		O-32	Base Plate	1		
O-16	Screw	2	009682-0-14		O-33	Needle Plate	1		
O-17	Screw	4	009660-4-14		O-34	Screw	2	111073-0-02	
O-18	Tape Guide Upper	2	143748-0-01		O- 8	Screw	2	107407-0-02	

Z. Accessory



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z- 1	Accessory Box	1	110436-0-01	✓	Z-30	Needle Bag	1	110436-0-01	✓
Z- 2	Spanner 10×12	1	107780-0-01	✓	Z-31	Needle DP×5	10	107780-0-01	✓
Z- 4	Spanner 8×9	1	100887-0-01	✓	Z-32	Change Gear Box	1	142745-0-01	✓
Z- 6	Box Spanner	1	143949-0-01	✓	Z-33	Gear	1	143949-0-01	✓
Z- 7	Spanner 3	1	142721-0-01	✓	Z-42	Upper Clamping Foot	1	142721-0-01	✓
Z- 8	Screw Driver	1	142443-0-01	✓	Z-45	Collar	4	146254-0-01	✓
Z-10	Screw Driver	1	118837-0-01	✓	Z-46	Movable Knife	1	141541-0-01	✓
Z-11	Screw Driver	1	101572-1-01	✓	Z-47	Fixed Knife	1	141543-0-01	✓
Z-13	Tweezers	1	117466-0-00	✓	Z-48	V Belt	2	082104-1-90	✓
Z-14	Head Rest	1	142005-0-00	✓	Z-48	V Belt	1	082104-2-90	✓
Z-15	Oil Tank	1	145277-0-03	✓	Z-48	V Belt	1	082104-3-90	✓
Z-16	Oiler	1	114483-0-01	✓	Z-49	Belt	1	141711-0-00	✓
Z-17	Head Cover	1	144226-0-01	✓	Z-50	Head Hook	2	141256-0-01	✓
Z-18	Upper Thread Trimming Assembly	1	141509-0-01	✓	Z-51	Screw	4	101125-0-00	✓
Z-19	Bolt	2	017681-0-14	✓	Z-52	Pulley	1	141707-0-01	✓
Z-20	Stop Cam Segment (Small)	1	142734-0-01	✓	Z-52	Pulley	1	141709-0-01	✓
Z-22	Cutter	1	147156-0-01	✓	Z-52	Pulley	1	143890-0-01	✓
Z-23	Cloth Guide	1	147156-0-01	✓	Z-53	Screw	2	013761-0-12	✓
Z-24	Washer	2	025680-2-34	✓	Z-54	Chain Assembly	2	142262-0-01	✓
Z-25	Bolt	2	017680-5-14	✓	Z-55	Foot Pedal	1	147623-0-01	✓
Z-26	Ruler	1	141705-0-01	✓	Z-56	Pedal Stopper	4	116016-0-01	✓
Z-27	Bolt	2	017680-5-14	✓	Z-57	Screw	4	001401-4-06	✓
Z-28	Washer	2	116662-0-02	✓	Z-58	Nut	4	021400-1-06	✓
Z-29	Bobbin	3	146025-0-01	✓	Z-59	Cotton Stand Assembly	1	150150-0-01	✓

DIFFERENT PARTS LIST

Ref. No.	Name of Parts	Sub-Class	80024 (-2)	80034 (-3)	Ref. No.	Name of Parts	Sub Class	80024 (-2)	80034 (-3)
B-12	Needle DP×5		107415-0-14	107415-0-11	Z-22	Cutter 1 1/4"		143780-0-0i	143780-0-0i
F-3	Gear		141382-0-00	141386-0-00	Z-31	Needle DP×5		107415-0-14	107415-0-11
G-82	Upper Clamping Foot		144497-0-01	144629-0-01	Z-33	Gear 30		141376-0-00	141376-0-00
H-9	Cutter 1/3"		107200-0-01	107204-0-01	"	Gear 32		141377-0-00	141378-0-00
Z-22	Cutter 1/6"		107204-0-01	107204-0-01	"	Gear 36		141379-0-00	
"	Cutter 1/2"		107200-0-01	107200-0-01	"	Gear 40		141381-0-00	141381-0-00
"	Cutter 5/8"		107205-0-01	107205-0-01	"	Gear 42			141382-0-00
"	Cutter 3/8"		109837-0-01	109837-0-01	"	Gear 44		141383-0-00	
"	Cutter 3/4"		107207-0-01	107207-0-01	"	Gear 46		141384-0-00	141384-0-00
"	Cutter 7/8"		109838-0-01	109838-0-01	Z-42	Upper Clamping Foot		144574-0-01	144631-0-01
"	Cutter 1"		107210-0-01	107210-0-01					

I N D E X

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
001401-4-06	Z -57		009681-2-14	A -1		014760-6-22	F -10		025050-2-33	K -57	
001670-5-12	G -13		"	A -102		"	J -23		025060-2-32	M -75	
001670-5-14	A -16		009681-4-12	H -6		"	M -15		025060-3-32	C -27	
"	A -110		009681-4-14	A -13		014770-6-22	B-1, B-19		025100-1-32	C -29	
001670-6-12	A -19		009682-0-14	A -2		"	B -24		"	C -50	
001670-6-14	M-63		"	N -16		"	B -26		025350-3-32	G -11	
003660-8-12	M-46		"	O -16		"	B -31		"	A -20	
"	M-52		009689-4-12	A -108		"	B -33		025680-2-32	J -31	
"	M-57		"	J -24		"	B -35		025680-2-34	A -60	
007671-2-12	I -28		"	I -25		"	B -46		"	C -71	
009660-4-14	N -17		009710-8-12	J -4		"	B -55		"	Z -24	
"	O -17		009711-0-13	M-37		"	B -58		025710-2-32	J -52	
009669-3-12	G -71		009711-4-12	I -84		"	B -64		025900-2-32	D -29	
009669-4-12	B -6		"	M-54		"	C -9		028050-2-40	C -56	
009670-4-12	J -19		"	M-77		"	C -59		041117-2-04	A -38	
009670-5-12	B -69		009711-4-13	E -4		"	D -5		047301-8-42	G -31	
"	L -37		009761-0-12	C -19		"	E -38		047250-8-42	I -33	
"	L -54		"	C -25		"	F -6		048030-3-42	I -16	
"	F -48		009761-0-13	K -50		"	G -7		"	K -59	
"	L -53		009761-0-14	G -59		"	G -61		048040-3-42	G -18	
"	L -72		009761-2-12	C -26		"	G -62		048050-3-42	G -56	
009670-5-14	A -48		"	D -18		"	G -68		048060-3-42	G -14	
009670-6-12	A -44		"	E -36		"	H -20		"	J -49	
"	L -49		"	H -30		"	H -44		"	M -72	
"	D -23		"	J -32		"	I -56		048070-3-42	C -36	
"	I -35		"	K -37		"	K -5		"	C -81	
"	L -62		"	M -74		"	K -30		048080-3-42	G -26	
"	K -33		009761-2-14	I -51		"	M -17		048090-3-42	I -12	
009670-6-13	G -46		"	I -70		"	M -20		048100-1-42	C -30	
009680-7-12	H -1		009761-4-13	A -80		017680-5-14	Z -25		048110-1-42	E -45	
"	I -2		"	I -47		"	Z -27		048150-1-40	B -37	
"	L -68		009762-0-13	A -74		017681-0-14	C -72		048200-1-42	M -60	
009670-8-12	G -40		"	A -91		"	N -12		048250-1-40	C -20	
"	L -8		009771-8-12	H -36		"	O -12		072600-5-60	C -4	
"	L -21		013670-7-12	B -71		"	Z -19		072620-2-60	B -41	
"	L -42		"	C -8		017751-4-12	K -1		081014-6-70	M -7	
"	K -12		013679-4-12	B -86		017761-4-12	C -68		082104-1-90	Z -48	
009680-6-12	A -112		"	I -69		017781-4-12	C -70		082104-2-90	Z -48	
"	L -19		013680-6-12	B -67		017782-5-12	C -43		082104-3-90	Z -48	
"	L -15		013680-6-13	A -50		018081-4-22	G -25		100008-0-03	A -43	
"	L -78		013689-4-12	G -73		018082-5-22	C -58		100022-0-05	J -21	
009680-7-12	G -81		"	I -65		"	M -14		"	J -25	
"	I -11		013711-0-10	A -23		018400-8-22	G -21		"	J -35	
009680-7-13	D -22		013760-6-12	A -8		021400-1-03	F -18		"	J -41	
009680-7-14	J -12		013760-7-13	A -117		021400-1-06	Z -58		100032-0-03	G -69	
009680-8-12	I -15		013760-8-10	D -7		021660-1-02	G -89		"	K -7	
"	I -58		013760-8-12	C -33		021710-2-02	C -57		100052-0-01	L -65	
"	J -30		"	F -53		021750-1-03	I -60		100075-0-04	C -45-2	
009680-8-13	M-33		013761-0-12	G -49		021760-3-04	A -63		100134-0-01	A -35	
009680-8-14	H -25		"	K -27		"	H -4		"	A -69	
009681-0-12	G -9		"	K -41		021780-3-02	K -36		100136-0-01	A -37	
"	J -2		"	Z -53		"	K -62		"	A -67	
"	F -27		013761-4-10	B -49		021780-3-03	F -39		"	N -1	
009681-0-14	A -14		"	B -53		021860-2-02	C -45-1		"	O -1	
"	F -51		013770-7-10	M -40		021910-3-02	D -28		100242-0-03	L -18	
009681-2-12	B -40		013771-4-10	B -62		022840-3-03	I -41		100250-0-01	B -27	
"	K -35		013781-0-12	H -16		"	I -55		100281-0-01	G -3	
"	F -23		"	M -58		"	K -45		"	J -44	
"	F -46		014760-6-22	E -28		022870-1-04	H -13		100366-0-02	G -10	

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100398-0-01	A -32		107126-0-01	H-43		110641-0-01	M-48		141243-0-01	A -64	
100399-0-01	A -31		107153-0-02	C-35, M-27		110744-0-02	H-24		141244-0-00	A -65	
100400-0-00	A -33		107200-0-01	H-9, Z-22		111073-0-02	O -34		141245-0-01	I -22	
100402-0-02	A -29		107204-0-01	H-9, Z-22		111937-0-01	M-61		141246-0-01	I -23	
100511-0-03	E -6		107205-0-01	Z -22		112144-0-01	H-41		141247-0-01	I -26	
100644-0-01	A -59		107207-0-01	Z -22		112359-0-01	L -6		141248-0-01	A -78	
"	A -105		107210-0-01	Z -22		112467-0-01	M-81		141249-0-01	A -79	
100645-0-03	N -15		107231-0-01	I -31		112743-0-01	L -71		141252-0-00	A -83	
"	O -15		107274-0-02	K -29		112744-0-01	L -44		141254-0-00	A -94	
100659-0-01	I -77		107321-0-01	A -40		112751-0-01	A -49		141256-0-01	Z -50	
100661-0-01	I -79		"	A -88		112751-0-02	A -25		141257-0-01	I -4	
100887-0-01	Z -4		107372-0-01	I -30		113431-0-01	N -13		141258-0-01	I -7	
101125-0-00	Z -51		107407-0-02	C -78		"	O -13		141259-0-01	I -5	
101125-0-01	I -6		"	A -100		114294-0-01	A -27		141260-0-01	A -12	
101572-1-01	Z -11		"	H -8		114747-0-01	I -8		141261-0-01	A -3	
101571-0-01	A -10		"	J -15		114483-0-01	Z -16		141262-0-01	A -6	
101706-0-01	B -23		"	N -8		115493-0-02	J -39		141263-0-01	A-38,39,42	
"	B -60		"	N -25		115503-0-01	H -10		141265-0-01	A -39	
"	B -51		"	O-25, 8		115542-0-01	C -52		141266-0-01	A -103	
101706-0-03	G -67		107407-0-03	B -8		115544-0-01	C -53		141267-0-01	A -93	
102023-0-03	A -95		"	F -29		115545-0-01	C -54		141268-0-01	A -49	
102424-0-03	A -66		"	F -45		115546-0-01	C -55		141269-0-01	A -45	
102843-0-04	B -44		"	K -46		115550-0-01	C -49		141271-0-01	B -29	
102538-0-02	L -67		107415-0-11	B-12,Z-31		115551-0-01	C -51		141272-0-01	B -28	
"	M-4		107415-0-14	B-12,Z-31		115552-0-01	C -48		141273-0-00	B -32	
102707-0-02	D -24		107419-0-02	L -57		115558-0-02	C -24		141274-0-00	B -39	
102843-0-04	C -4		107453-0-01	K -2		115559-0-02	C -23		141275-0-01	B -42	
103950-0-02	A -30		107488-0-02	Z -25		115585-0-01	I -43		141276-0-01	B -43	
103978-0-02	A -116		"	Z -27		"	I -53		141277-0-00	B -38	
104449-0-01	A -47		107550-0-02	G -41		"	K -44		141278-0-01	C -5	
"	D -1		107602-0-01	A -71		116016-0-01	Z -56		141279-0-01	C -3	
"	D -10		"	A -36		116562-0-02	A -104		141280-0-01	C -6	
104450-0-01	A -46		107612-0-01	A -72		116662-0-02	Z -28		141281-0-01	C -14	
"	A -106		107639-0-01	J -48		116725-0-01	A -87		141282-0-01	C -7	
104546-0-01	M-5		107678-0-01	A -99		116795-0-00	E -31		141283-0-01	C -11	
104564-0-01	L -63		107680-0-01	A -98		116968-0-01	L -28		141284-0-00	C -13	
104827-0-01	D -19		107681-0-01	A -97		116975-0-01	L -52		141285-0-01	C -12	
"	F -8		107682-0-01	A -96		"	M-65		141286-0-01	C -16	
104833-0-01	A -58		107744-0-01	K -60		117215-0-01	A -68		141289-0-01	C -17	
104847-0-01	K -26		107780-0-01	Z -2		117258-0-01	A -7		141290-0-00	B -25	
104848-0-01	K -42		108494-0-01	N -3		117348-0-01	C -8		141293-1-01	B-4, 85	
104908-0-02	D -15		"	O -3		117466-0-00	Z -13		141295-0-01	B -2	
105234-0-03	A -77		108495-0-01	N -2		117598-0-01	E -32		141296-0-01	B -9	
105288-0-02	N -22		"	O -2		117934-0-01	I -83		141297-0-01	B -47	
"	O -22		108520-0-01	M-66		118215-0-01	G -49		141298-0-00	B -48	
105451-0-01	K -22		109173-0-01	B -78		118262-0-02	G -48		141303-0-00	B -56	
105812-0-01	E -13		109183-0-01	B -70		118352-0-01	G -88		141304-0-01	B -63	
105812-0-02	E -15		109203-0-01	M-47		118735-0-02	C -42		141305-0-00	B -61	
105970-0-01	O -27		109837-0-01	Z -22		"	C -69		141308-1-01	K -11	
106147-0-01	F -17		109838-0-01	Z -22		"	H -35		141309-0-00	B -34	
106568-0-01	N -29		109862-0-01	B -68		118759-0-01	A-38, 39, 42		141310-0-01	D -9	
"	O -30		110104-0-00	L -24		118837-0-01	Z -10		141311-0-01	D -2	
106588-0-01	E -7		110161-0-03	J -3		120774-0-01	L -39		141312-0-00	D -8	
"	E -23		110161-0-04	K -48		120790-0-01	H -40		141313-0-01	D -4	
"	H -37		110185-0-02	I -37		122771-0-02	N -26		141316-0-01	I -38	
106629-0-01	K -58		110367-0-01	B -22		"	O -26		141326-0-01	D -11	
107017-0-01	A -47		110436-0-01	Z -1		140004-0-01	B -10		141328-0-01	D -21	
107017-0-01	A -89		110494-0-01	E -19		140553-0-01	B -11		141329-0-01	D -25	
107097-1-01	B -82					140947-0-01	E -15		141332-0-01	E -22	

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141333-0-01	E-24		141413-0-01	F-24		141492-0-01	J-38		141559-0-01	C-22
141334-0-01	C-21		141417-0-01	G-50		141494-0-01	J-26		141562-0-01	I-46
"	C-38		141417-0-01	H-15		"	J-37		141564-0-01	I-52
"	E-25		141419-0-01	G-47		"	J-51		141566-0-01	M-42, 46, 49
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141337-0-01	E-10		141422-0-01	G-57		141499-0-01	J-20		141575-0-01	I-61
141338-0-01	E-11		141426-0-01	G-64		141500-0-01	J-18		141576-0-01	M-34, 35
141339-0-01	E-8		141427-0-01	G-22		141501-0-01	J-45		141579-0-01	I-57
141340-0-01	E-20		141429-0-01	G-32		141502-0-01	J-5		141580-0-01	I-59
141341-0-01	E-29		141430-0-01	G-60		141504-0-01	J-6		141581-0-01	I-50
141342-0-00	E-33		141431-0-01	G-20		141505-0-01	J-14		141582-0-01	M-30
141343-0-01	K-51		141433-0-01	G-65		141506-0-01	J-13		141583-0-01	M-31
141343-0-02	H-31		141434-0-01	G-24		141507-0-01	G-17		141584-0-01	M-34, 35
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"	E-35		141440-0-01	G-70		141509-0-01	J-7 ~ 11, Z-18		141589-0-01	M-36
141344-0-01	D-26		141441-0-01	G-74		141511-0-01	J-8		141590-0-01	A-62
141345-0-01	E-30		141442-0-01	G-72		141513-0-01	J-10		141592-0-01	J-28
141346-0-01	E-5		141445-0-01	F-47		141514-0-01	J-11		"	L-55
141347-0-01	E-3		141446-0-01	F-26		141515-0-01	G-80		141593-0-01	A-61
141348-0-01	E-2		141448-0-01	F-28		141516-0-01	J-1		141594-0-01	A-17
141351-0-01	E-37		141449-0-01	G-8		141517-0-01	J-47		141596-0-01	F-50
141354-0-00	E-17		141450-0-01	G-6		141518-0-01	K-47		141597-0-01	F-55
141355-0-01	E-14		141451-0-01	G-5		141519-0-01	K-61		141598-0-01	F-54
141356-0-01	E-16		141454-0-01	G-1		141520-0-01	K-54		141599-0-01	F-52
141357-0-00	E-27		141455-0-01	G-10 ~ 16		141521-0-01	K-64		141600-0-01	A-101
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141365-0-00	E-43		141464-0-01	H-39		141527-0-01	K-39		141608-0-01	I-78
141366-0-01	E-42		141465-0-01	H-38		141528-0-01	K-40		141610-0-01	I-75
141367-0-01	B-30		141466-0-01	H-34		"	K-43		141611-0-01	I-67
141368-0-00	F-7		141467-0-01	H-29		141529-0-01	K-38		141614-0-01	A-18
141369-0-01	F-4		141468-0-01	H-26		141530-0-01	K-28		141616-0-01	A-22
141376-0-00	Z-33		141469-0-01	H-23		141531-0-01	K-34		141617-0-01	A-21
141378-0-00	F-3, Z-33		141471-0-01	H-27		141532-0-01	K-31		141618-0-01	C-75
141379-0-00	Z-33		141472-0-01	H-28		141533-0-01	K-25		141619-0-01	A-9
141381-0-00	Z-33		"	I-49		141534-0-01	K-23		141620-0-01	A-11
141382-0-00	F-3, Z-33		"	J-46		141535-0-01	K-24		141621-0-01	I-12 ~ 13, 16 ~ 21
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141392-0-01	F-12		141474-0-01	H-12		141541-0-01	K-16		141628-0-01	I-18
141393-0-01	F-13		141475-0-01	H-21		"	Z-46		141630-0-01	I-20
141394-0-01	F-9		141476-0-01	H-22		141542-0-01	K-17		141633-0-01	I-14
141395-0-01	F-40		141477-0-01	H-3		141543-0-01	K-14		141636-0-00	M-41
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141397-0-01	F-37		141479-0-01	H-5		141544-0-01	K-13		141642-0-00	M-85
141398-0-01	F-41		141481-0-01	H-14		141545-0-01	K-32		141643-0-00	M-86
141399-0-01	F-42		141484-0-01	G-29		141547-0-01	C-67		141647-0-00	M-2
141400-0-01	F-31		141485-0-01	G-30		141548-0-01	C-65		141651-0-01	L-59
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141408-0-01	F-30		141489-0-01	J-24		141554-0-01	C-47		141655-0-00	L-48
141409-0-01	F-33		141490-0-01	J-36		141555-0-01	C-39		141656-0-01	L-47
141410-0-01	F-25		141491-0-01	J-40		141556-0-01	C-20		141658-0-00	L-3
141411-0-01	F-32		141492-0-01	J-50		141557-0-01	C-60		141659-0-01	E-40
141412-0-01	F-16		"	J-27		141558-0-01	C-46		141661-0-01	L-22 ~ 25, 27 ~ 31

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141664-0-01	L-25		"	G-52		"	O-18		146025-0-01	B-81	
141665-0-01	L-27		"	K-53		143749-0-01	N-19		"	Z-29	
141666-0-01	L-29		142373-0-00	C-63		"	O-19		146041-0-01	C-28	
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141670-0-00	L-40		142374-0-00	G-23		143780-0-01	Z-22		146355-0-01	B-73	
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141679-0-01	L-2		142407-0-01	B-72		143890-0-01	Z-52		146960-0-01	I-44	
141680-0-01	L-1		142408-0-01	B-66		143911-0-01	A-113		147155-0-00	E-46	
141681-0-00	B-7		142413-0-01	L-7, 13		143915-0-01	M-17~20		147156-0-01	Z-23	
141682-0-01	B-5		142416-0-01	K-15		143927-0-01	K-66		147222-0-01	M-8	
141683-0-00	L-36		142419-0-01	K-9		143933-0-01	B-74~77		147223-0-01	M-69~73	
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141689-0-01	L-56		142702-0-01	F-35		143944-0-01	F-22		147623-0-01	Z-55	
141691-0-00	M-29		142709-0-00	B-52		143945-0-01	K-3		147639-0-01	C-44	
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141700-0-01	C-74		142735-0-01	A-24		143984-0-01	A-92		147985-0-01	B-79	
141701-0-01	C-76		142736-0-01	B-3, 84		143985-0-01	A-90		148052-0-01	B-4	
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141703-0-01	C-73		142742-0-00	L-35		144226-0-01	Z-17		148054-0-01	B-83	
141704-0-01	C-40		142743-0-00	A-54		144497-0-01	G-82		148055-0-01	A-15	
141705-0-01	Z-26		142744-0-01	B-77		144541-0-01	N-11		148468-0-01	M-78	
141707-0-01	Z-52		142745-0-01	Z-32		"	O-11		148469-0-01	M-82	
141709-0-01	Z-52		142748-0-01	L-50		144574-0-01	Z-42		148470-0-00	M-84	
141711-0-00	Z-49		142748-0-02	L-75		144627-0-01	O-20		148471-0-01	M-79	
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141717-0-01	H-46		142751-0-01	C-15		144631-0-01	Z-42		148745-0-01	L-76	
141718-0-01	J-22		142755-0-01	C-31		144633-0-01	O-32~34		148746-0-01	L-77	
141953-0-01	C-34		142766-0-01	M-39		144741-0-01	A-28		148761-0-01	M-78~86	
142005-0-00	Z-14		142771-0-01	C-37		144876-0-01	M-80		181092-0-01	B-35, 36, 45, 46	
142210-0-01			142779-0-01	H-12		144916-0-00	A-82		181093-0-01	B-54, 55, 57, 58	
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142259-0-01	I-73		143440-0-01	L-11		144998-0-01	N-23		181708-0-01	C-63, 64, 68	
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142297-0-01	C-10		143738-0-01	N-14		145248-0-01	N-20		507142-0-02	I-82	
142298-0-00	L-14		"	O-14		145277-0-03	Z-15		512769-0-01	K-21	
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