

 CINE FORWARD
U S E R M A N U A L

FCT-10
PROJECTOR
PARTS LIST



NIPPON DENSHI KOGAKU CO.,LTD

CONTENTS

B:ANAMORPHIC LENS HOLDER COMPLETE

C:LENS HOLDER COMPLETE

D:FILM GATE COMPLETE

E:APERTURE COMPLETE

F:OPERATING BRACKET COMPLETE

G:SHUTTER CASE COMPLETE

H:UPPER SPROCKET

I:LOWER SPROCKET

J:DRUM SHAFT COMPLETE

K:OPTICAL SYSTEM EXCITER ASSEMBLY

L:CONSTANT SPEED COMPLETE

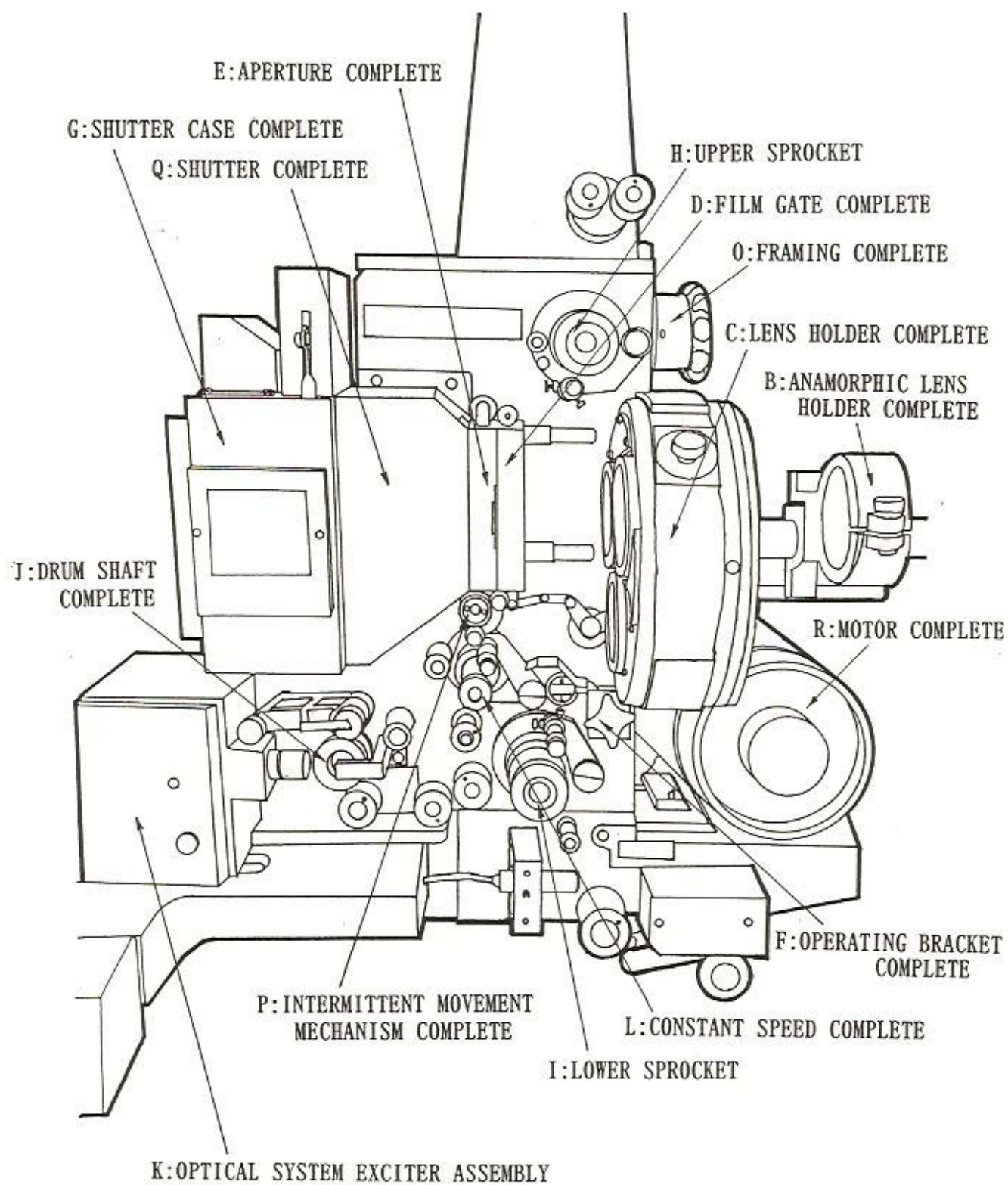
N:GEAR BOX COMPLETE

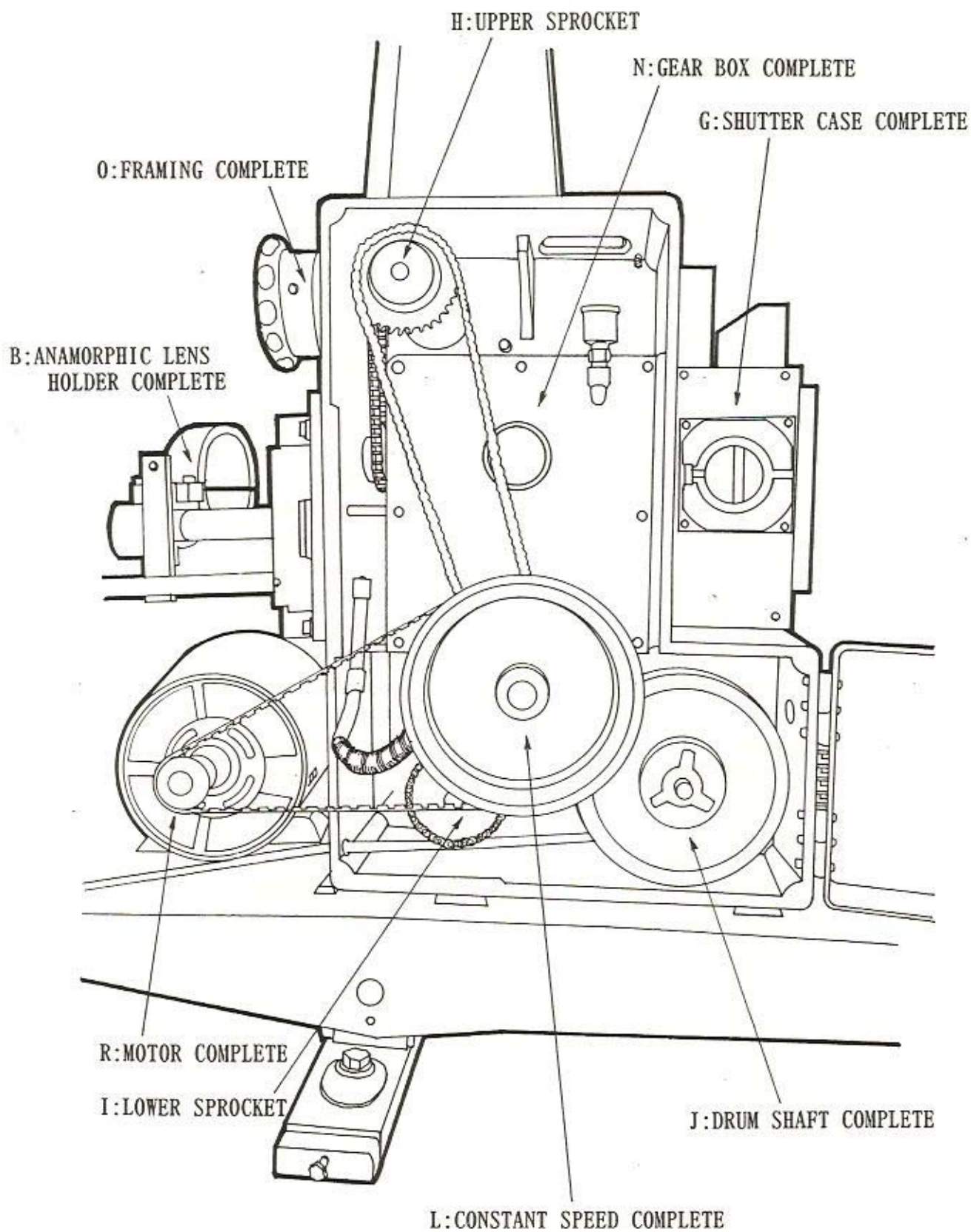
O:FRAMING COMPLETE

P:INTERMITTENT MOVEMENT MECHANISM COMPLETE

Q:SHUTTER COMPLETE

R:MOTOR COMPLETE





B-1-1	ANAMORPHIC LENS HOLDER	1
2	HOLDER BASE	1
3	HOLDER NUT	2
4	HOLDER SCREW	2
5	ANAMORPHIC STOP SHAFT	1
6	ANAMORPHIC HOLDER SHAFT	1
7	HOLDER ADJUST COLLAR	1

C-1-1	TURRET HOLDER ARM	1
2	HOLDER ARM BASE	1
3	HOLDER SCREW	4
4	TURRET	1
5	LENS SLEEVE	3
6	LOCK LEVER	1
7	ADJUST HANDLE	3
8	TURRET LOCK PIN	1
9	TURRET SMOOTHING UNIT	2
10	SMOOTH SCREW L	4
11	SMOOTH SCREW S	2
12	SMOOTH SPRING	4
13	SMOOTH BEARING	2
14	SMOOTH BEARING CORE	2

D-1-1	FILM GATE	1
2	SLIDE METAL LOWER	1
3	SLIDE METAL UPPER	1
4	SLIDE METAL SCREW	2
5	FILM SKATE LOWER	2
6	FILM SKATE UPPER	2
7	PRESSURE SHAFT	3
8	SKATE PLATE C	1
9	SKATE PLATE B	1
10	SKATE PLATE A	1
11	SPRING	3
12	ADJUSTER	3
13	E-WASHER	2
14	GATE ROLLER	2
15	GATE ROLLER SHAFT	1
16	INTER ROLLER BASE	1

17	INTER ROLLER ARM	1
18	LONG ROLLER SHAFT	1
19	SHORT ROLLER SHAFT	1
20	ROLLER	4
21	ROLLER COLLAR	2
22	ATTACHMENT SCREW	2

E-1-1	FILM GATE	1
2	UPPER SLIDE SHAFT	1
3	LOWER SLIDE SHAFT	1
4	SLIDE SHAFT SCREW	2
5	APERTURE PLATE	1
6	PLATE SCREW	2
7	PLATE SPRING	2
8	PLATE NUT	2
9	FILM GUIDE PLATE	2
10	GUIDE PLATE SCREW	4
11	APERTURE MASK COVER R	1
12	COVER R SCREW	2
13	APERTURE MASK COVER L	1
14	COVER L SCREW	2
15	HEAT PLATE	1
16	HEAT PLATE SCREW	2
17	HEAT PLATE SPRING	2
18	ROLLER HOLD SHAFT	2
19	E-WASHER	2
20	GATE ROLLER	2
21	GATE ROLLER COLLAR	1
22	GATE ROLLER WASHER	1
23	GATE ROLLER SPRING	1
24	HOLD SHAFT SCREW	2

F-1-1	OPERATING BRACKET	1	G-2-1	SHUTTER SYSTEM BASE	1
2	BRACKET SCREW	2	2	BASE SCREW	4
3	HANDLE SHAFT	1	3	BASE SPRING	1
4	HANDLE	1	4	BASE WASHER	2
5	HANDLE SCREW	1	5	SHUTTER SYSTEM COVER	1
6	HOOK COLLAR	1	6	COVER SCREW	2
7	HOOK COLLAR PIN	1	7	SOLENOID UNIT	2
8	SHAFT SPRING	1	8	SOLENOID SCREW	1
9	BREAK ARM	1	9	T-PLATE	2
10	BREAK ARM SCREW	1	10	T-BASE	1
11	BREAK ARM PIN	1	11	T-SCREW	1
12	SHAFT SCREW S	1	12	T-SPRING	2
13	SHAFT SCREW L	1	13	T-WASHER	1
14	LEVER PIN	1	14	SPRING SHAFT A	1
15	LEVER BASE	1	15	SPRING SHAFT B	1
16	LEVER	1	16	SPRING	2
17	LEVER SCREW	2	17	CONNECT SCREW	1
18	LEVER SPRING	2			
19	LEVER WASHER	2	H-1-1	UPPER SPROCKET BRACKET	1
20	LEVER SPRING PIN	1	2	SPROCKET SHAFT	1
21	LEVER SPRING	1	3	BRACKET SCREW	3
22	INNER SCREW	1	4	BEARING	2
			5	FRONT SPACER	1
G-1-1	SHUTTER CASE	1	6	DRUM SPROCKET	1
2	CASE SCREW	4	7	SPROCKET SCREW	1
3	GLASS HOLDER	1	8	REAR SPACER	1
4	GLASS PLATE	1	9	CHAIN WHEEL	1
5	GLASS NUT	3	10	WHEEL SCREW	1
6	GLASS SCREW	2			
7	RING BASE	1	H-2-1	PAD ROLLER ARM	1
8	BASE SCREW	4	2	STOPER SCREW	1
9	CONNECT RING	1	3	ATTACHMENT SCREW	1
10	RING SCREW	4	4	PAD ROLLER SHAFT	1
11	RING SPRING	4	5	PAD ROLLER	2
12	RING WASHER	4	6	PAD ROLLER COLLAR	1
13	FAN PLATE	1	7	PAD ROLLER WASHER	1
14	PLATE SCREW	4	8	ADJUSTING SCREW	1
15	FAN	1	9	ADJUSTING NUT	1
16	FAN SCREW	4	10	SHAFT SET SCREW	1
17	FAN SPRING	4	11	ARM STOPER	2
18	SHUTTER DUCT	1	12	SPRING HOOK	1
19	DUCT SCREW	4	13	ARM SPRING	1
20	DUCT SPRING	4			
21	DUCT WASHER	4			

I-1-1	LOWER SPRCKET BRACKET	1	J-1-18	FLY WHEEL	1
2	SPROCKET SHAFT	1	19	WHEEL SPRING	1
3	BRACKET SCREW	3	20	WHEEL NUT	1
4	BEARING	2	21	WHEEL SCREW	1
5	FRONT SPACER	1			
6	DRUM SPROCKET	1	K-1-1	ROLLER ARM BASE	1
7	SPROCKET SCREW	1	2	SPACER	1
8	REAR SPACER	1	3	INNER GUIDE	1
9	CHAIN WHEEL	1	4	ADJUSTING SHAFT	1
10	WHEEL SCREW	1	5	ADJUST SHAFT WASHER	1
			6	ADJUST SPRING	1
I-2-1	PAD ROLLER ARM	1	7	ADJUSTING PIPE	1
2	STOPER SCREW	1	8	ADJUSTING COLLAR	1
3	ATTACHMENT SCREW	1	9	ADJUSTING COLLAR SCREW	1
4	PAD ROLLER SHAFT	1	10	ADJUSTING NUT	1
5	PAD ROLLER	2	11	ADJUSTING NUT SCREW	1
6	PAD ROLLER COLLAR	1	12	BEARING COVER SCREW	6
7	PAD ROLLER WASHER	1	13	BEARING COVER	2
8	ADJUSTING SCREW	1	14	INNER SHEET	2
9	ADJUSTING NUT	1	15	BEARING	2
10	SHAFT SET SCREW	1	16	ROLLER SHAFT	1
11	ARM STOPER	2	17	SMALL COLLAR	1
12	SPRING HOOK	1	18	ROLLER	2
13	ARM SPRING	1	19	ROLLER COLLAR	1
			20	ROLLER SPRING	1
J-1-1	DRUM SHAFT BRACKET	1	21	ROLLER WASHER	1
2	DRUM SCREW	3	22	E-WASHER	1
3	DRUM SPRING	3	23	GUIDE SCREW	2
4	DRUM WASHER	3	24	GUIDE SPRING	2
5	BEARING	2	25	GUIDE WASHER	2
6	DRUM SHAFT COLLAR	1			
7	COLLAR SCREW	1	K-2-1	LASER BOX	1
8	SOLER CELL MOUNT	1	2	CLEAR RED PLATE	1
9	MOUNT SCREW	2	3	KNOB	1
10	MOUNT SPRING	2	4	KNOB NUT	1
11	MOUNT WASHER	2	5	KNOB SPRING	1
12	ADJUST BASE	1	6	KNOB WASHER	1
13	ADJUST SCREW	1	7	BOX HOLD SCREW (S)	2
14	ADJUST SPRING	1	8	BOX HOLD SPRING	2
15	ADJUST WASHER	1	9	BOX HOLD SCREW (L)	2
16	SHAFT WASHER	1	10	LASER HOLD SCREW	2
17	DRUM SHAFT	1			

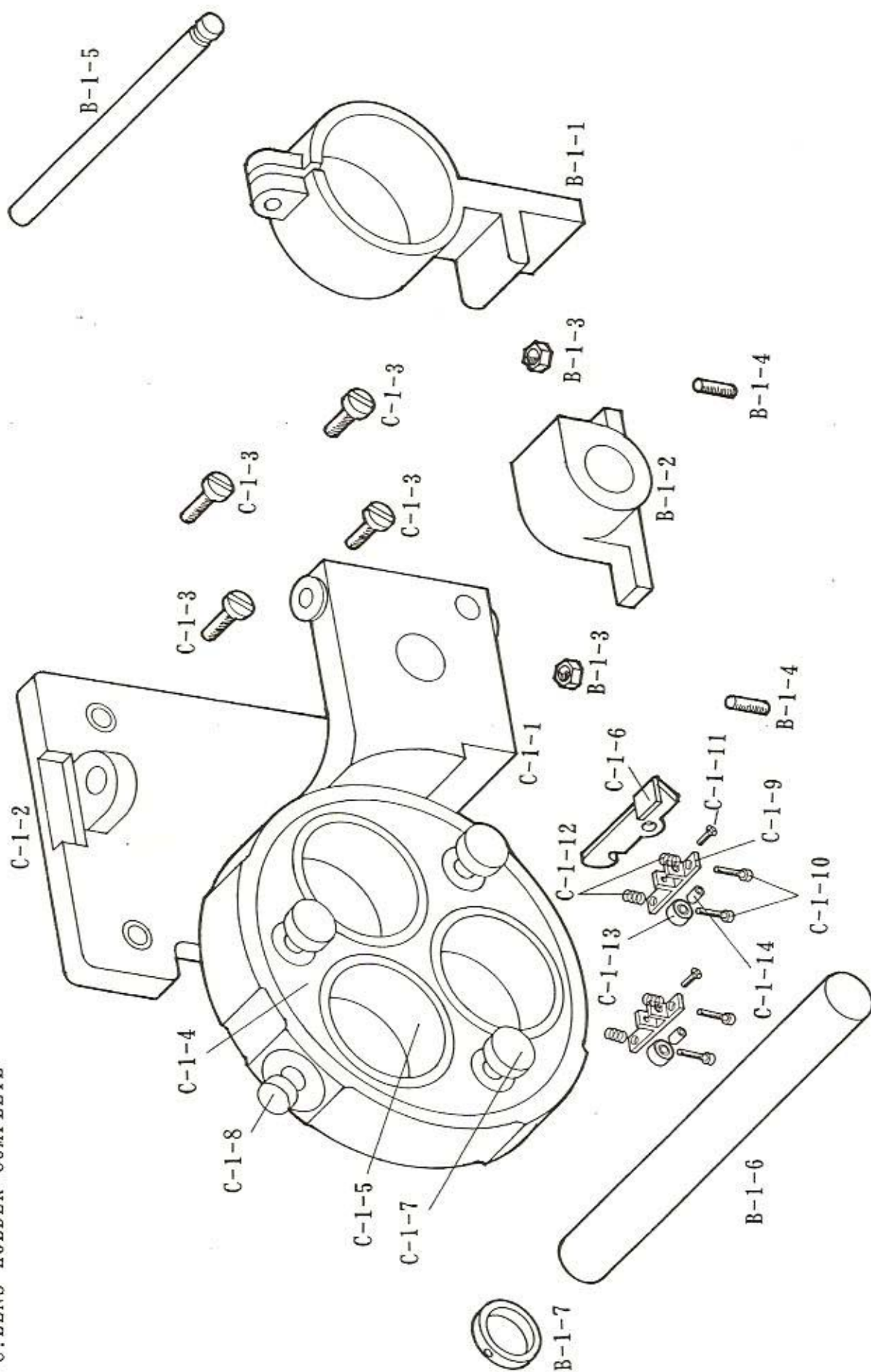
K-2-11	BOX COVER	1	L-3-1	RACK METAL	1
12	LASER UNIT	1	2	VERTICAL SHAFT	1
13	LASER PLATE	1	3	BEARING COVER	2
14	CIRCUIT BASE	1		(Different with top and bottom)	
15	BASE SCREW	2	4	BEARING COVER SCREW	6
16	BASE SPRING	2	5	BEARING	2
17	BASE WASHER	2	6	VERTICAL SHAFT GEAR	1
			7	VERTICAL SHAFT GEAR PIN	1
L-1-1	CONSTANT BRACKET	1	8	VERTICAL GEAR (CAM DRIVE)	1
2	BRACKET SCREW	4	9	SHUTTER DRIVE GEAR	1
3	ARM STOPER	2	10	SHUTTER DRIVE GEAR PIN	1
4	ATTACHMENT SCREW	1	11	COLLAR	1
5	SPRING HOOK	1	12	COLLAR PIN	1
6	BEARING S	1	13	COLLAR SCREW	1
7	CONSTANT SHAFT	1	14	EXCENTRIC COLLAR	1
8	OIL SEAL	2	15	EXCENTRIC COLLAR SCREW	1
9	CONSTANT DRIVE GEAR	1	16	EXCENTRIC COLLAR SPRING	1
10	GEAR PIN	1	17	EXCENTRIC COLLAR WASHER	1
11	COLLAR	1	18	METALIC SCREW	1
12	COLLAR PIN	1	19	METALIC SPRING	1
13	COLLAR SCREW	1	20	METALIC WASHER	1
14	BEARING L	1	21	METALIC SHEET	1
15	INNER METAL	1			
16	INNER METAL SCREW	4	N-1-1	GEAR HOLDER	1
17	DRIVE GEAR	1	2	PUMP SHAFT	1
18	DRIVE GEAR SCREW	2	3	OIL PUMP OUTER METAL	1
19	CONSTANT SPEED SPROCKET	1	4	OIL PUMP INNER METAL	1
			5	METAL SPRING	1
L-2-1	PAD ROLLER ARM	1	6	METAL PIN	1
2	STOPER SCREW	1	7	HOLDER COVER	1
3	ADJUSTING SCREW	1	8	COVER SCREW	3
4	ADJUSTING NUT	1	9	OIL PUMP GEAR	1
5	SHAFT SET SCREW	1	10	INNER CUBE	2
6	ARM SPRING	1	11	INNER SPRING	1
7	PAD ROLLER WASHER	1	12	OIL CAGE	1
8	PAD ROLLER	2	13	OIL PIPE	1
9	PAD ROLLER COLLAR	1	14	PIPE SET UNIT	2
10	PAD ROLLER SHAFT	1			

0-1-1	FRAMING HANDLE	1	P-1-13	CAM BEARING	1
2	COLLAR	1	14	FRY WHEEL	1
3	COLLAR SCREW	2	15	CAM SCREW	3
4	SPRING WASHER	1	16	FLY WASHER	2
5	HANDLE METAL	1	17	FLY BEARING	1
6	HANDLE METAL SCREW	3	18	BOX COVER	1
7	CHAIN WHEEL	1	19	COVER SCREW	4
8	CHAIN WHEEL SCREW	1			
9	CHAIN	1	P-2-1	BOSS FOR INTERMITTENT MOVEMENT	1
10	HANDLE SHAFT	1	2	M5×10 SCREW	4
			3	OIL STOP WASHER	1
0-2-1	BLOCK FEEDER	1	4	THRUST WASHER $\phi 34$	2
2	FEEDER SCREW	3	5	THRUST BEARING $\phi 34$	1
3	FEEDER SPRING	3	6	INTERMITTENT DRIVE GEAR	1
4	SLIDE PLATE	1	7	THRUST WASHER $\phi 30$	2
5	SHAFT SLIDE PLATE	1	8	THRUST BEARING $\phi 30$	1
6	GUIDE SHAFT	1			
7	OIL SEAL	1	Q-1-1	SHUTTER	1
8	BEARING	2	2	TAPER SCREW	1
9	CHAIN WHEEL	1	3	SHUTTER COLLAR	1
10	CHAIN WHEEL SCREW	2	4	SHUTTER SHAFT	1
11	SPRING WASHER	1	5	BRACKET METAL	1
12	COLLAR	1	6	WASHER	1
13	BEARING COVER	2	7	SPRING SPACER	1
	(Different with..)		8	SHUTTER GEAR	1
14	BEARING COVER SCREW	6	9	GEAR PIN	1
			10	BEARING COLLAR	2
P-1-1	MOVEMENT BOX	1	11	BEARING	1
2	ADJUST GEAR	1	12	BRACKET SCREW	5
3	TAPER PIN	2			
4	ADJUST SCREW	2			
5	CROSS SHAFT	1			
6	CROSS WASHER	1			
7	CROSS PIN	1			
8	CROSS COLLAR	1			
9	TAPER SCREW	1			
10	SPROCKET	1			
11	CAM	1			
12	CAM WASHER	2			

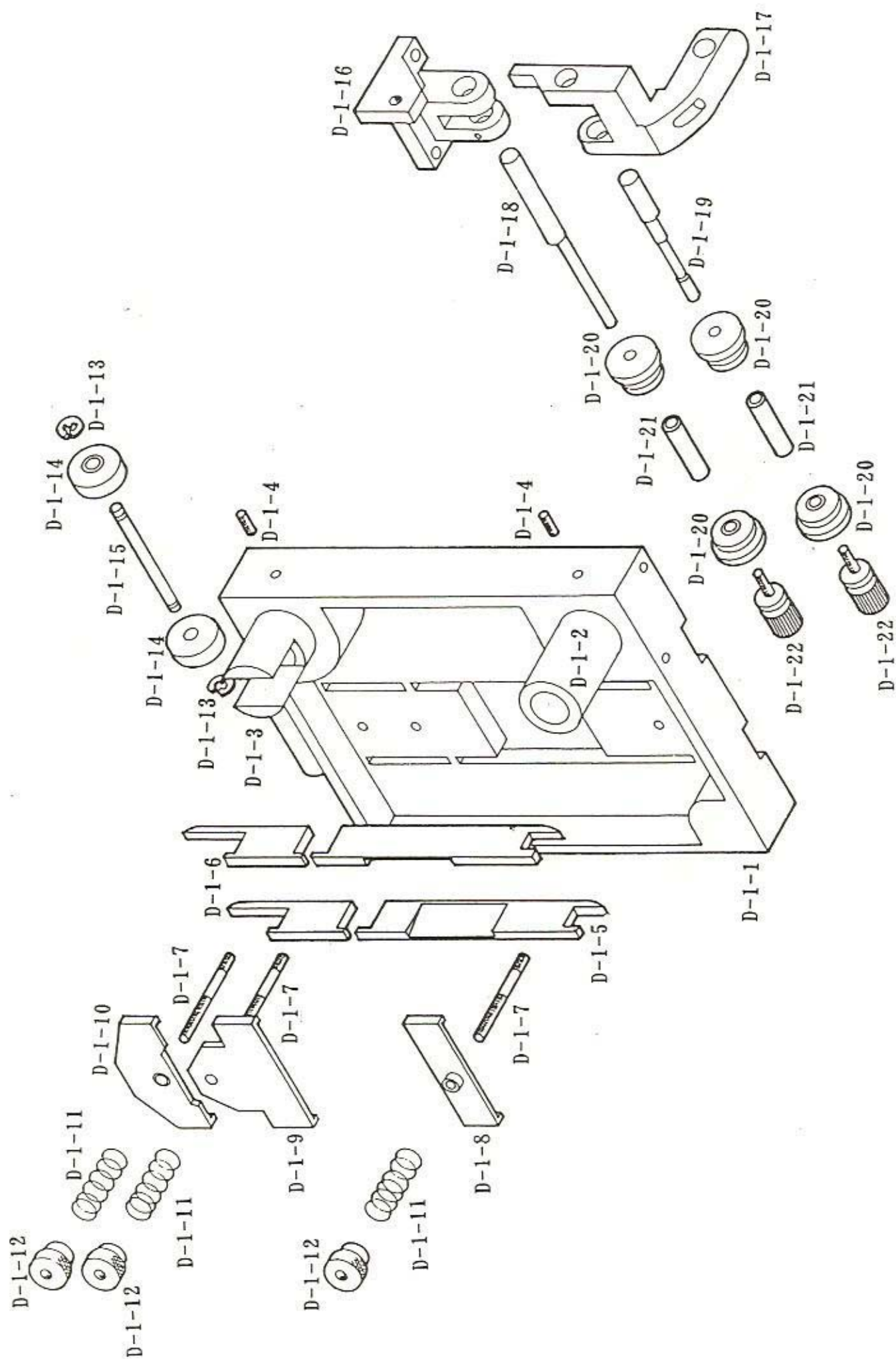
R-1-1	MOTOR	1
2	MOTOR SET SCREW	4
3	MOTOR SET SPRING	4
4	MOTOR SET WASHER	4
5	SOCKET	1
6	FLY WHEEL	1
7	WHEEL SCREW	4
8	MOTOR PULLEY	1
9	PULLEY SCREW	1
10	SYNCHRO BELT	1

B:ANAMORPHIC LENS HOLDER COMPLETE

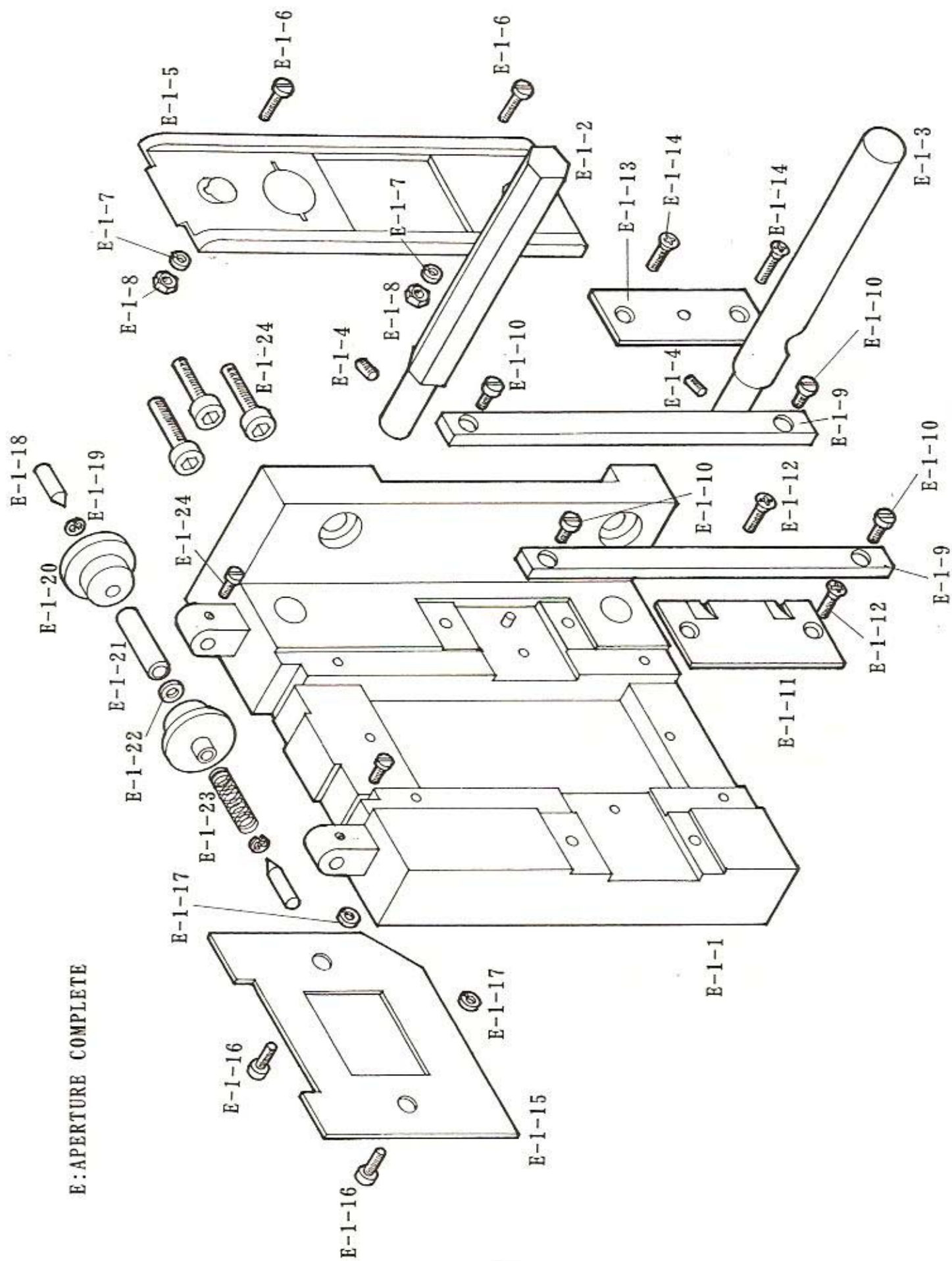
C:LENS HOLDER COMPLETE



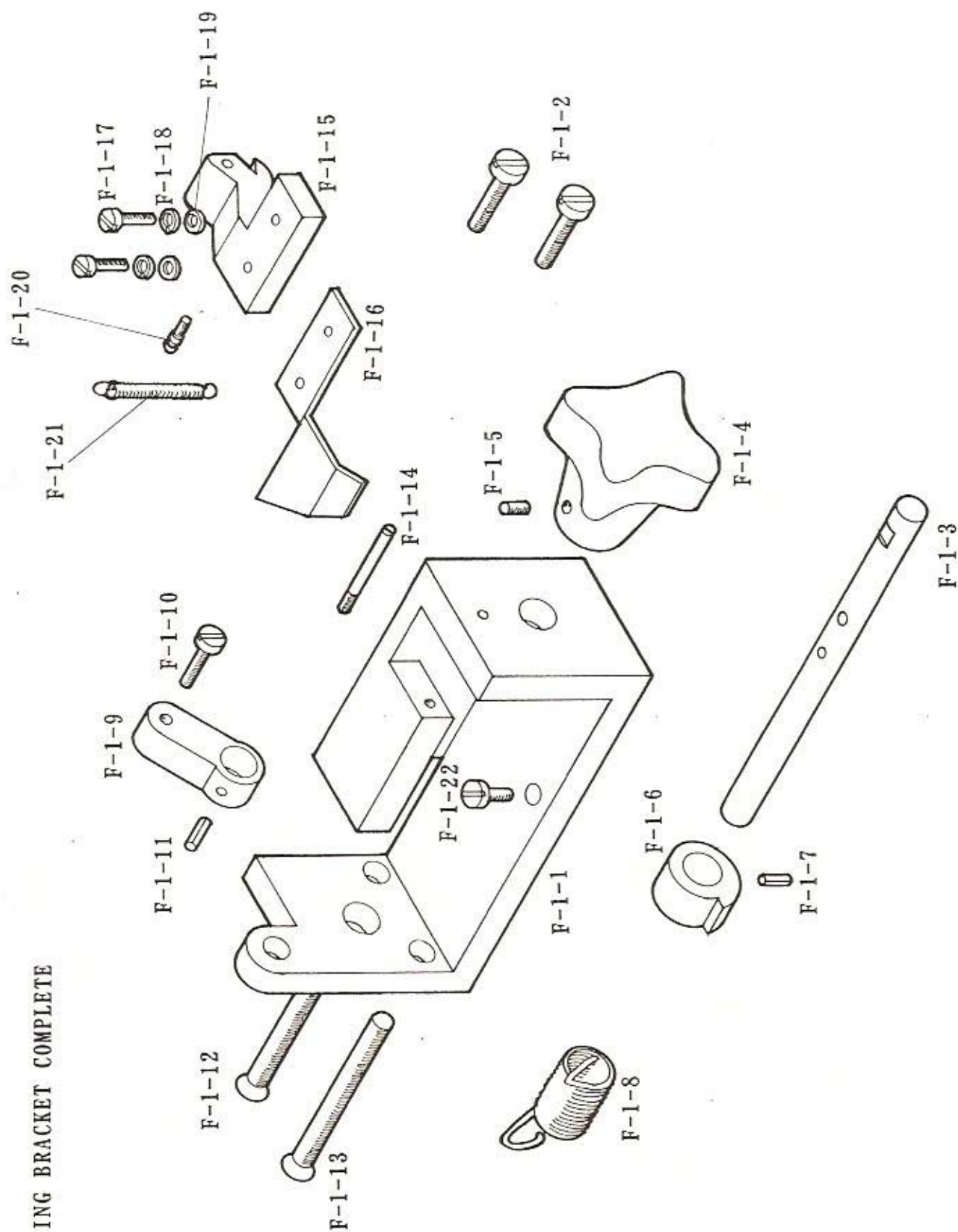
D: FILM GATE COMPLETE



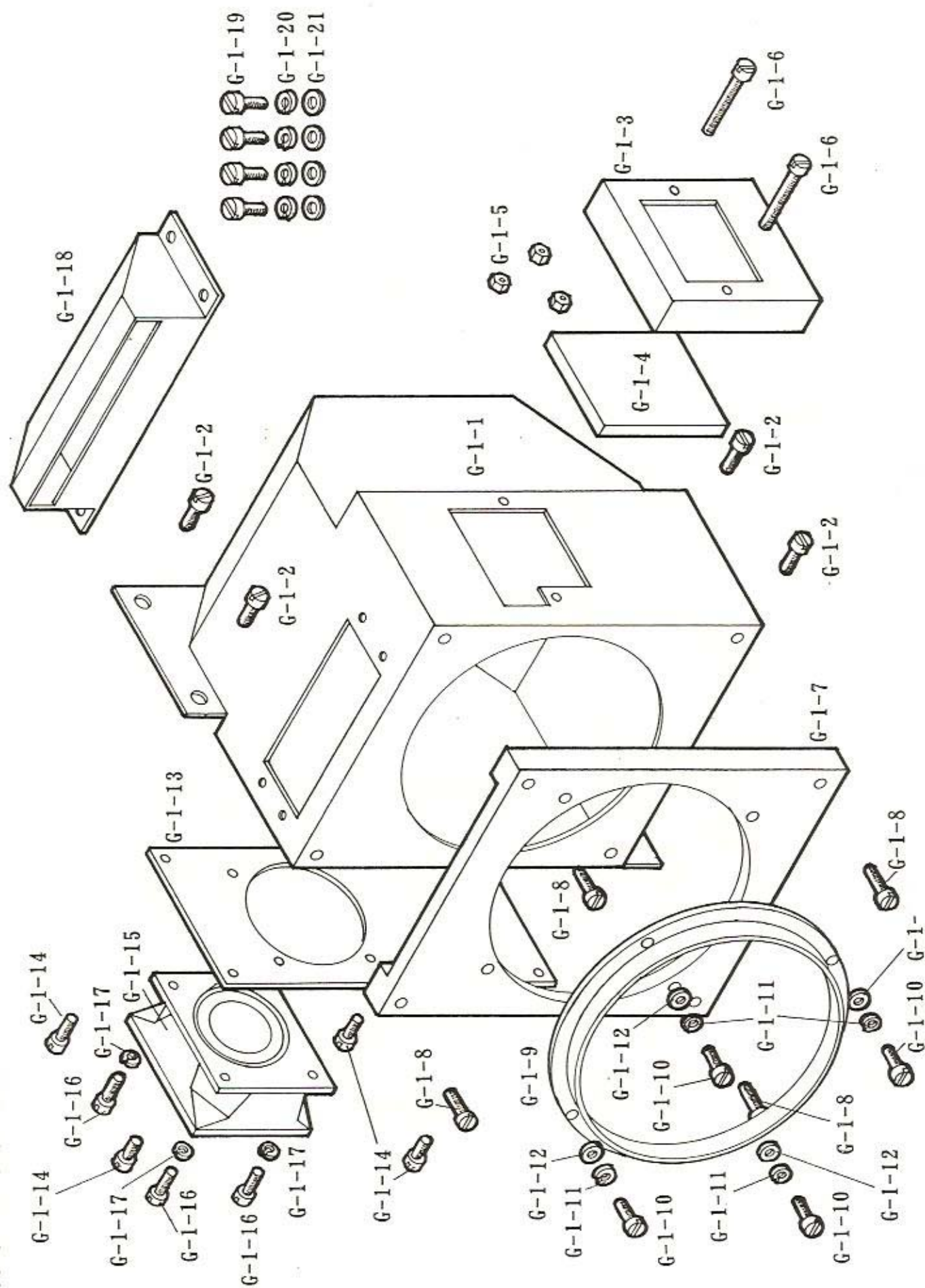
E: APERTURE COMPLETE



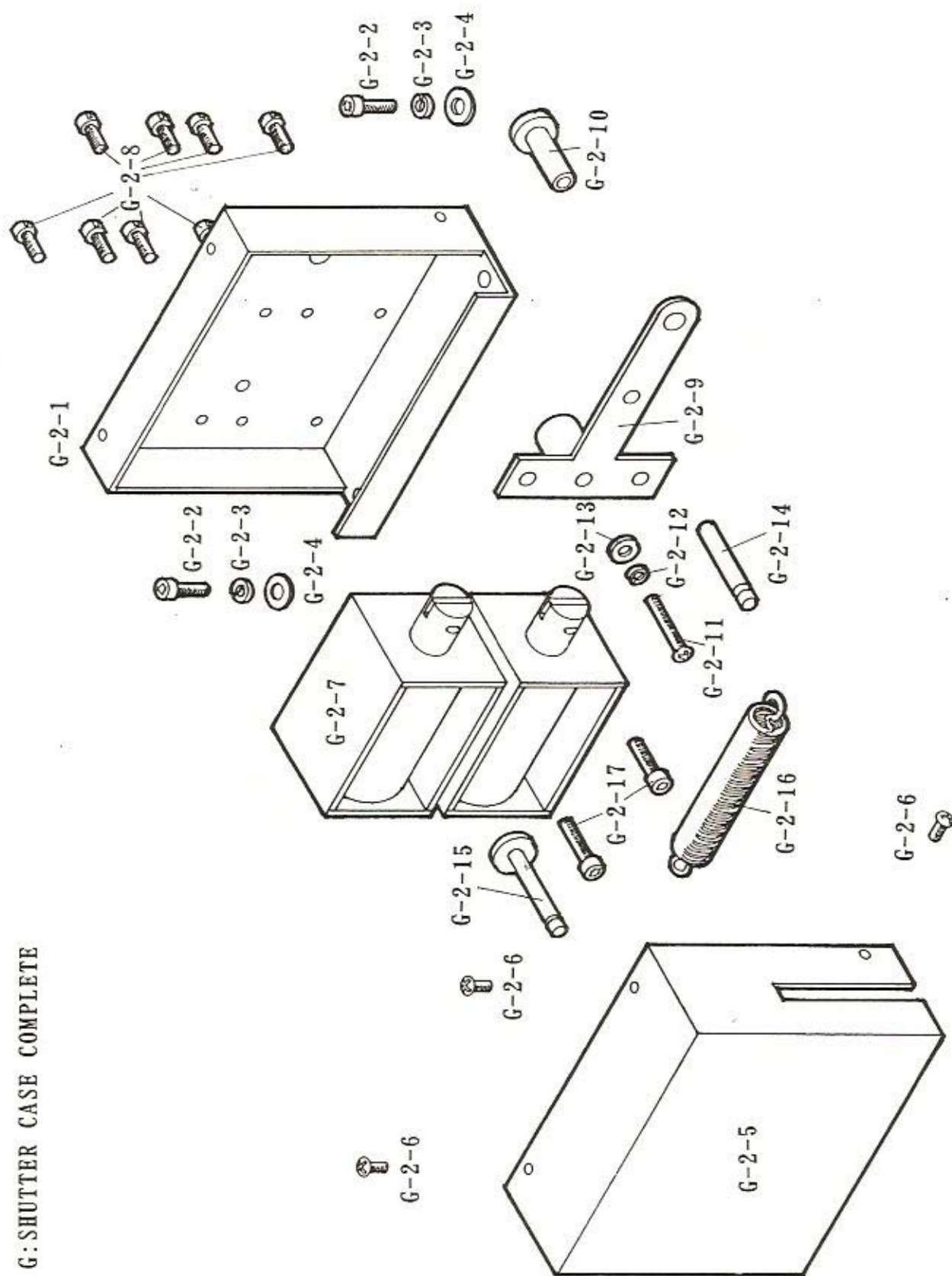
F: OPERATING BRACKET COMPLETE



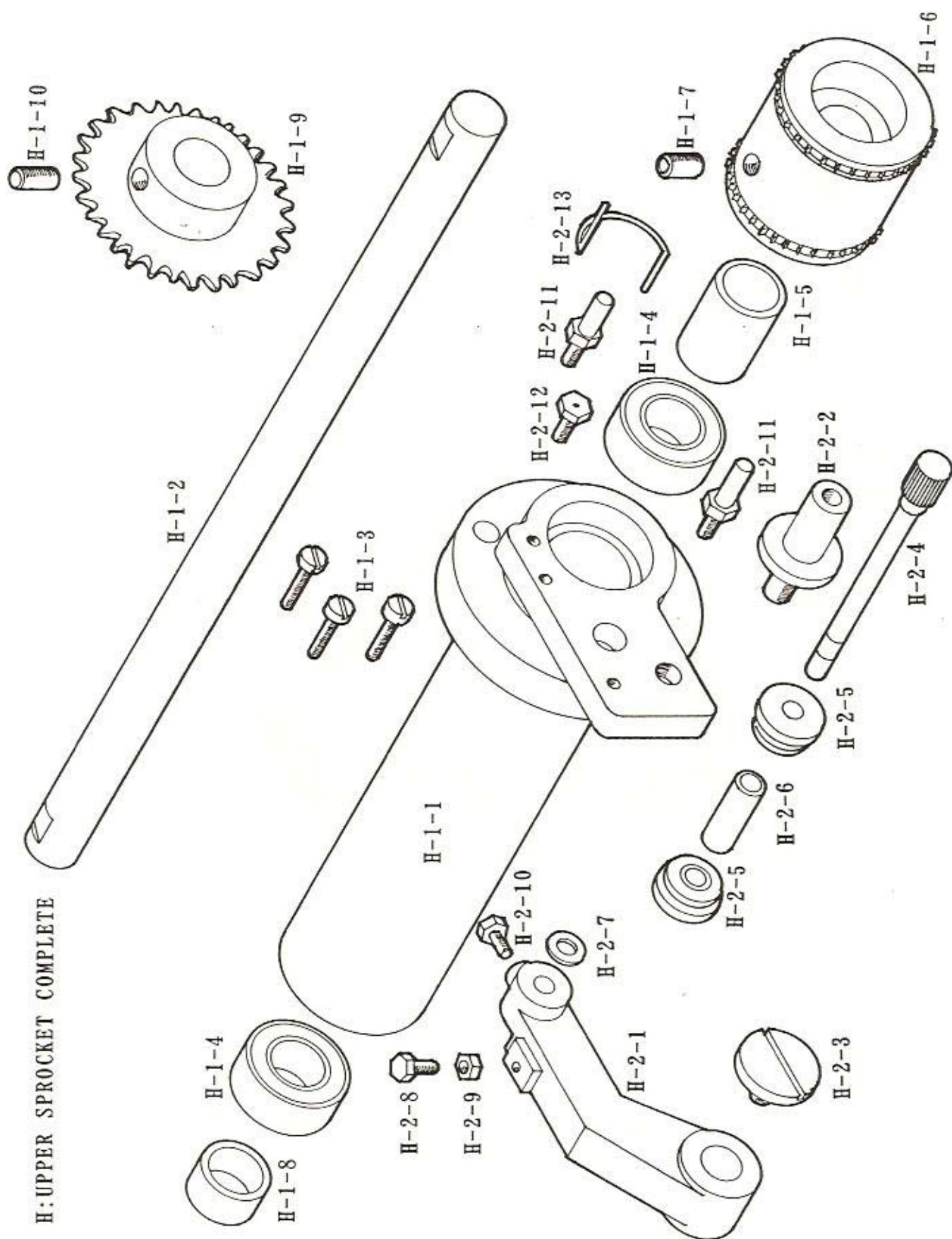
G: SHUTTER CASE COMPLETE



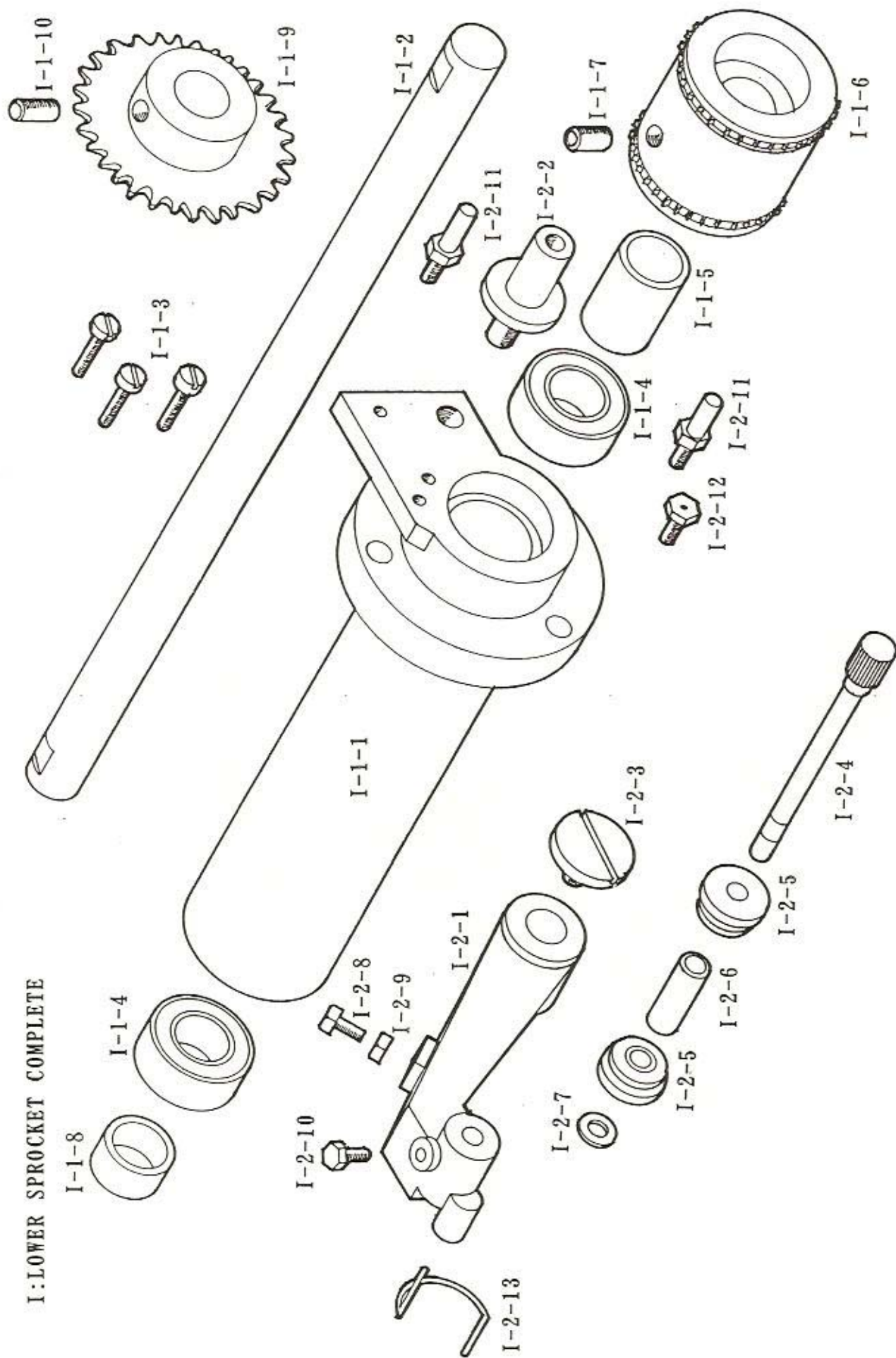
G: SHUTTER CASE COMPLETE



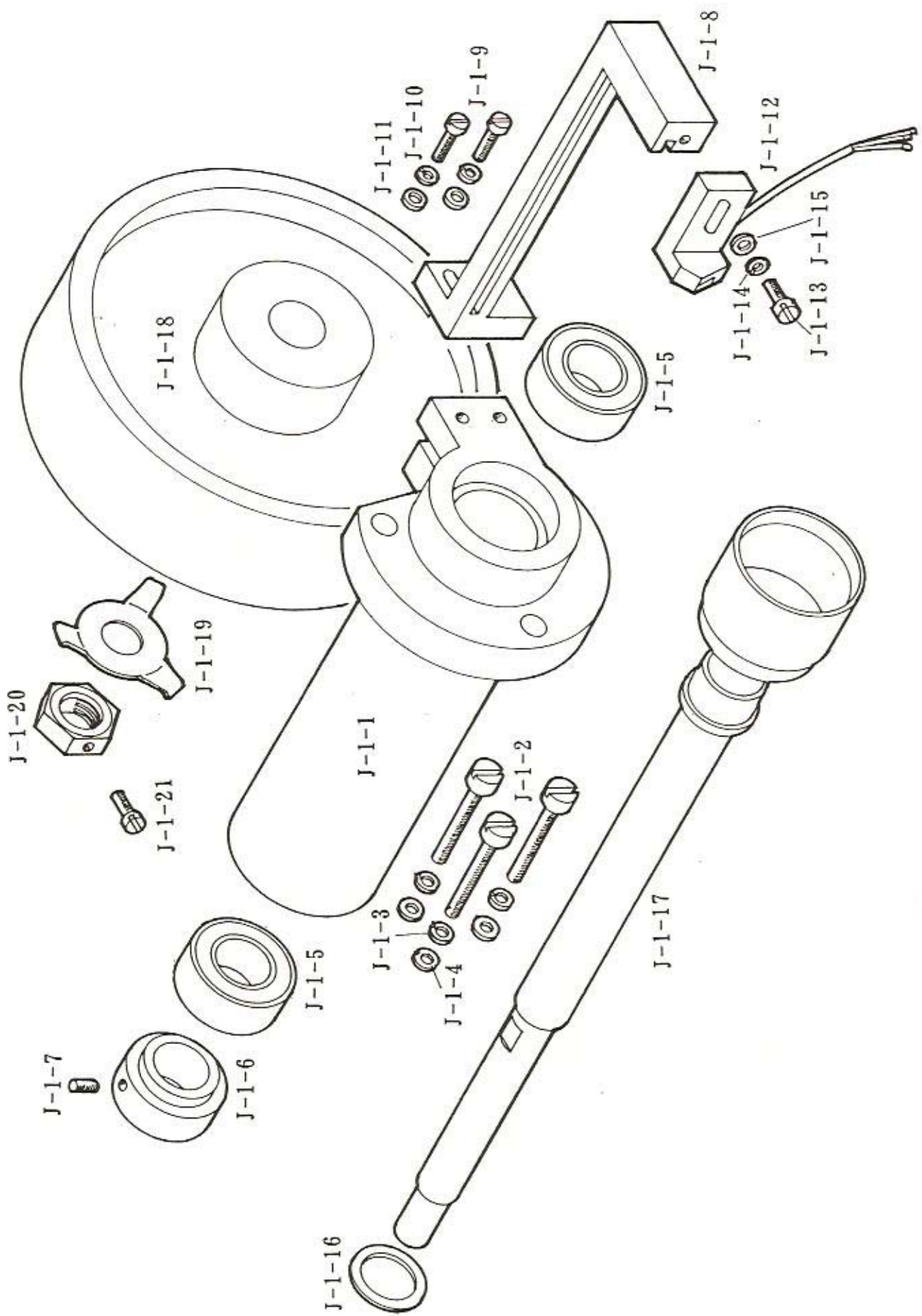
H: UPPER SPROCKET COMPLETE



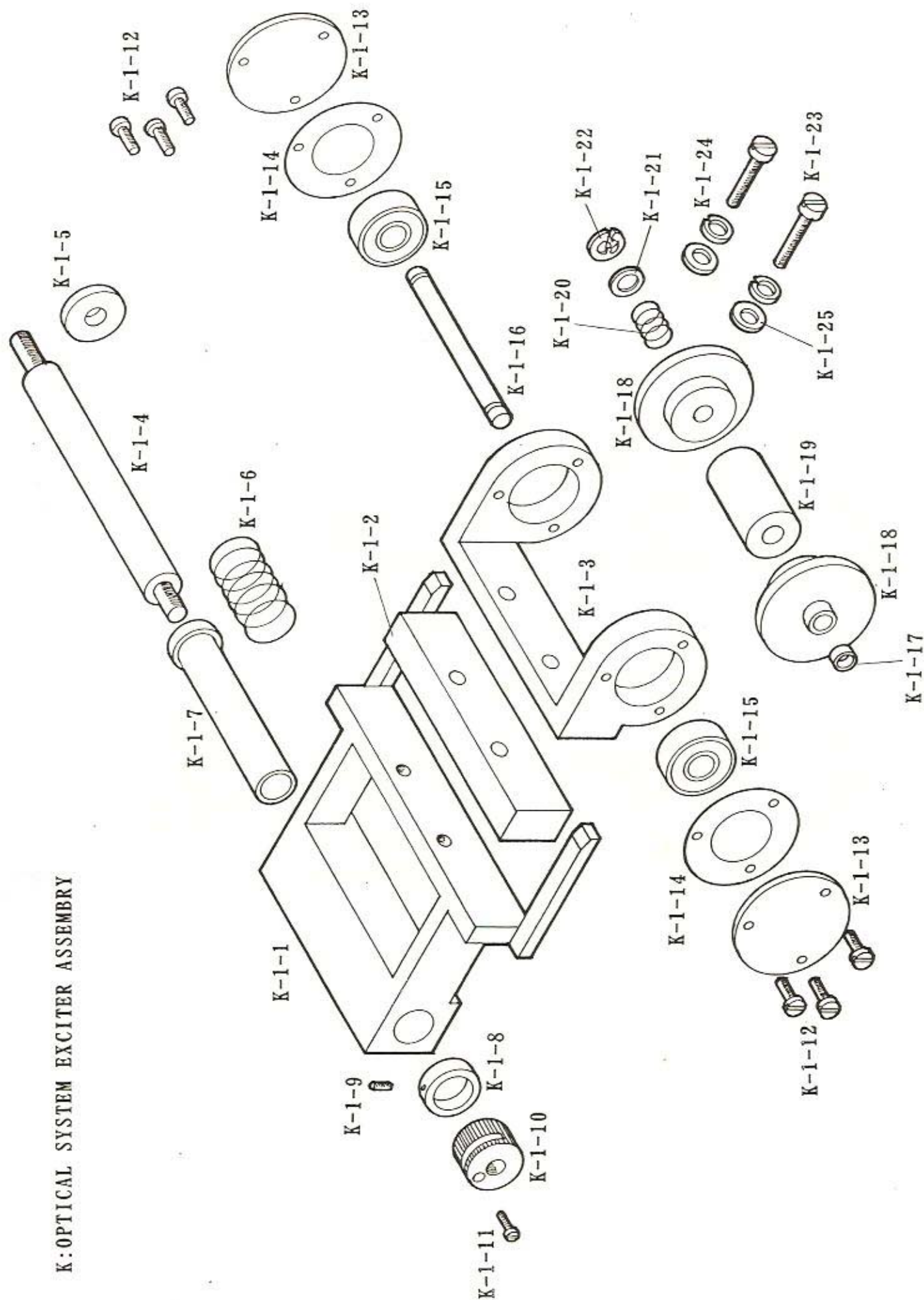
I: LOWER SPROCKET COMPLETE



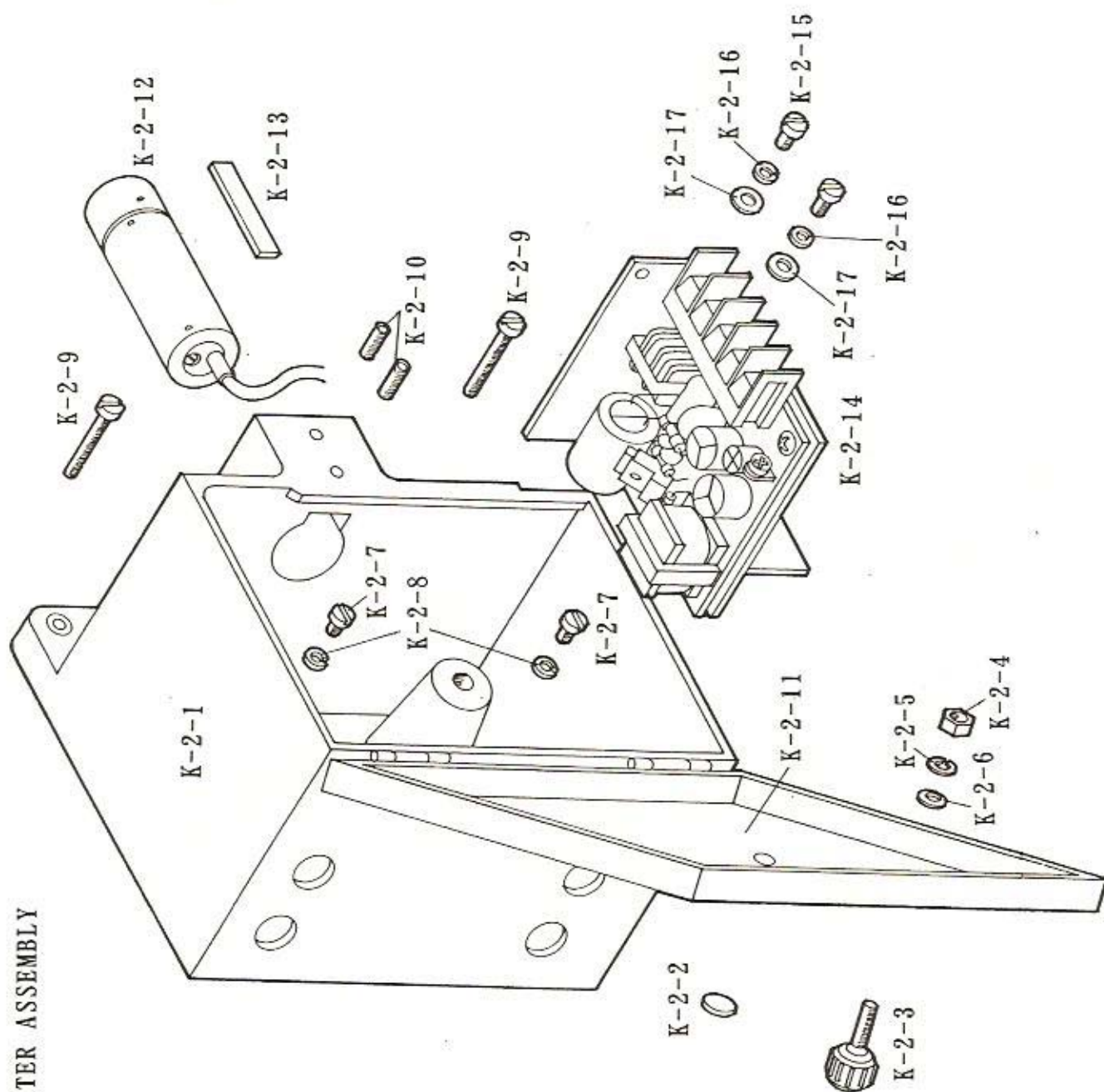
J: DRUM SHAFT COMPLETE



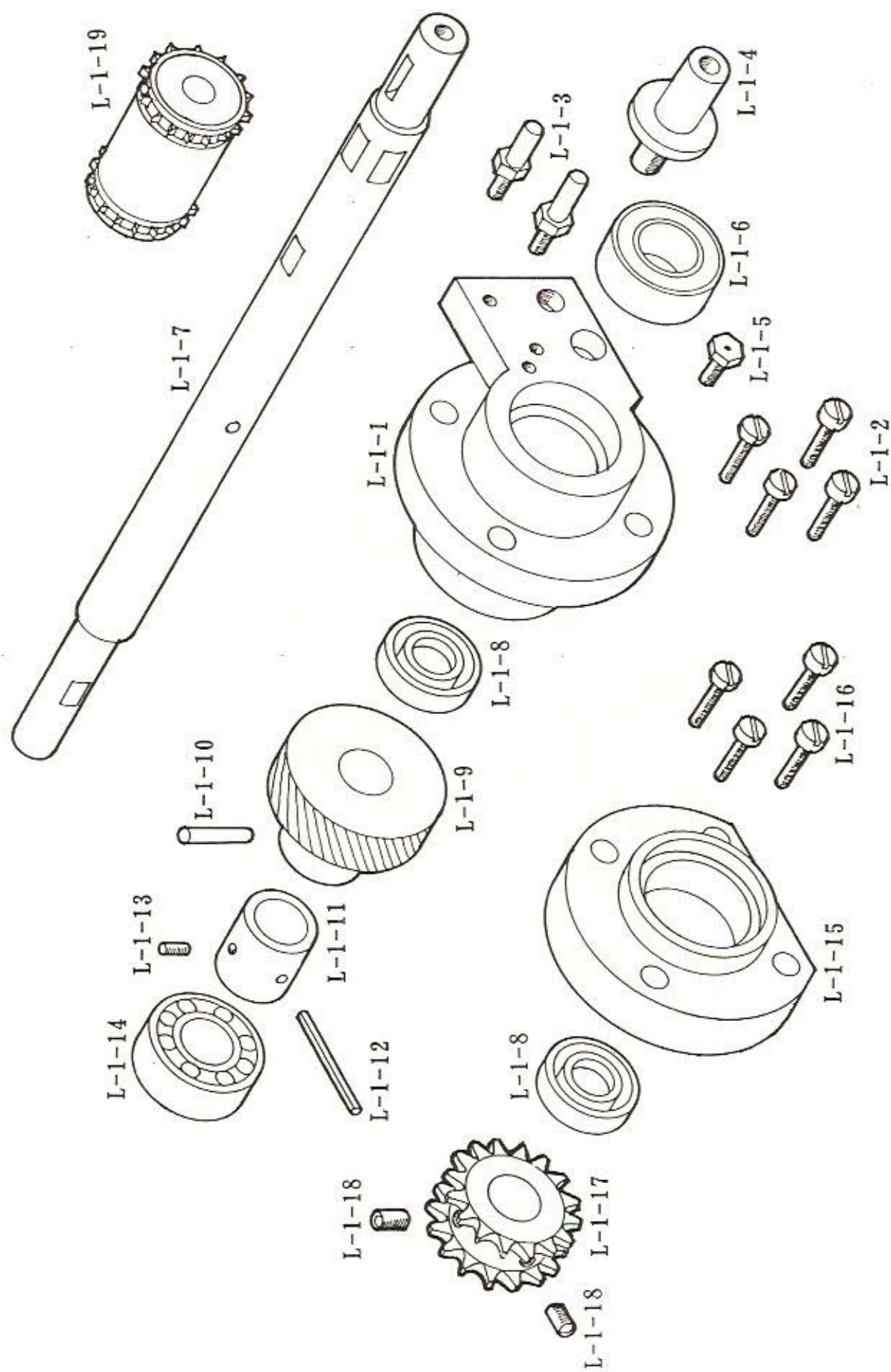
K: OPTICAL SYSTEM EXCITER ASSEMBRY



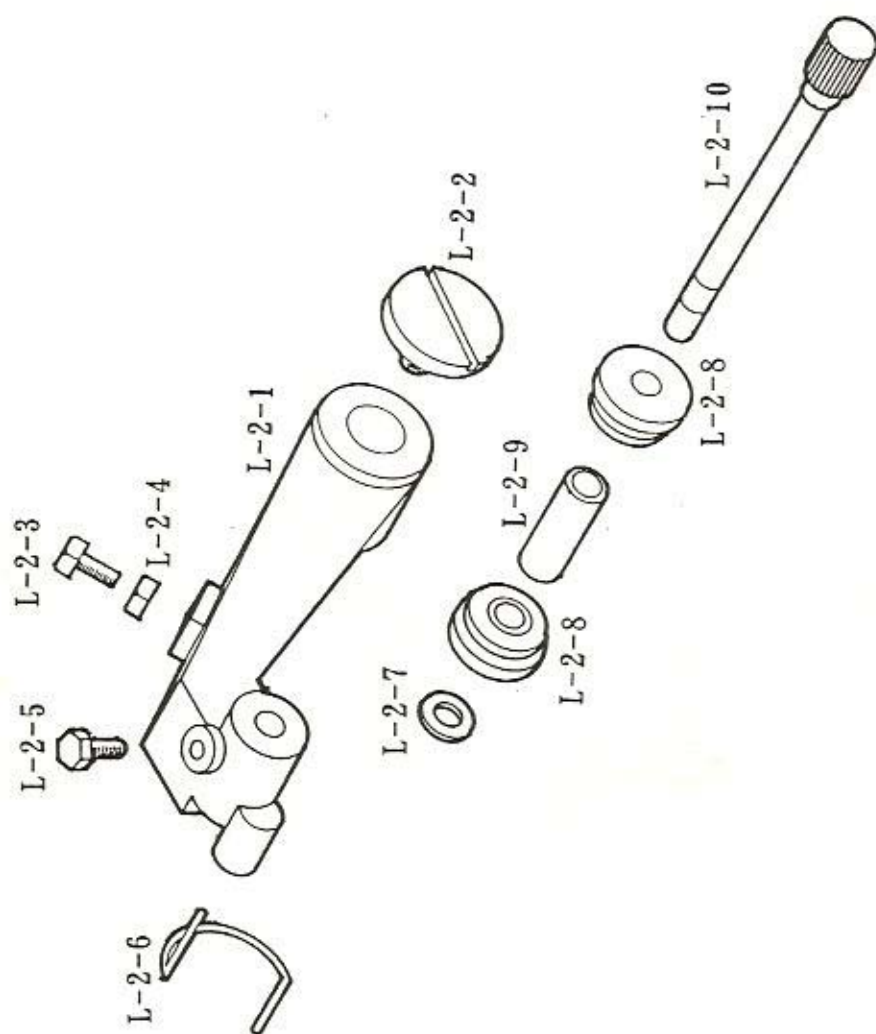
K:OPTICAL SYSTEM EXCITER ASSEMBLY



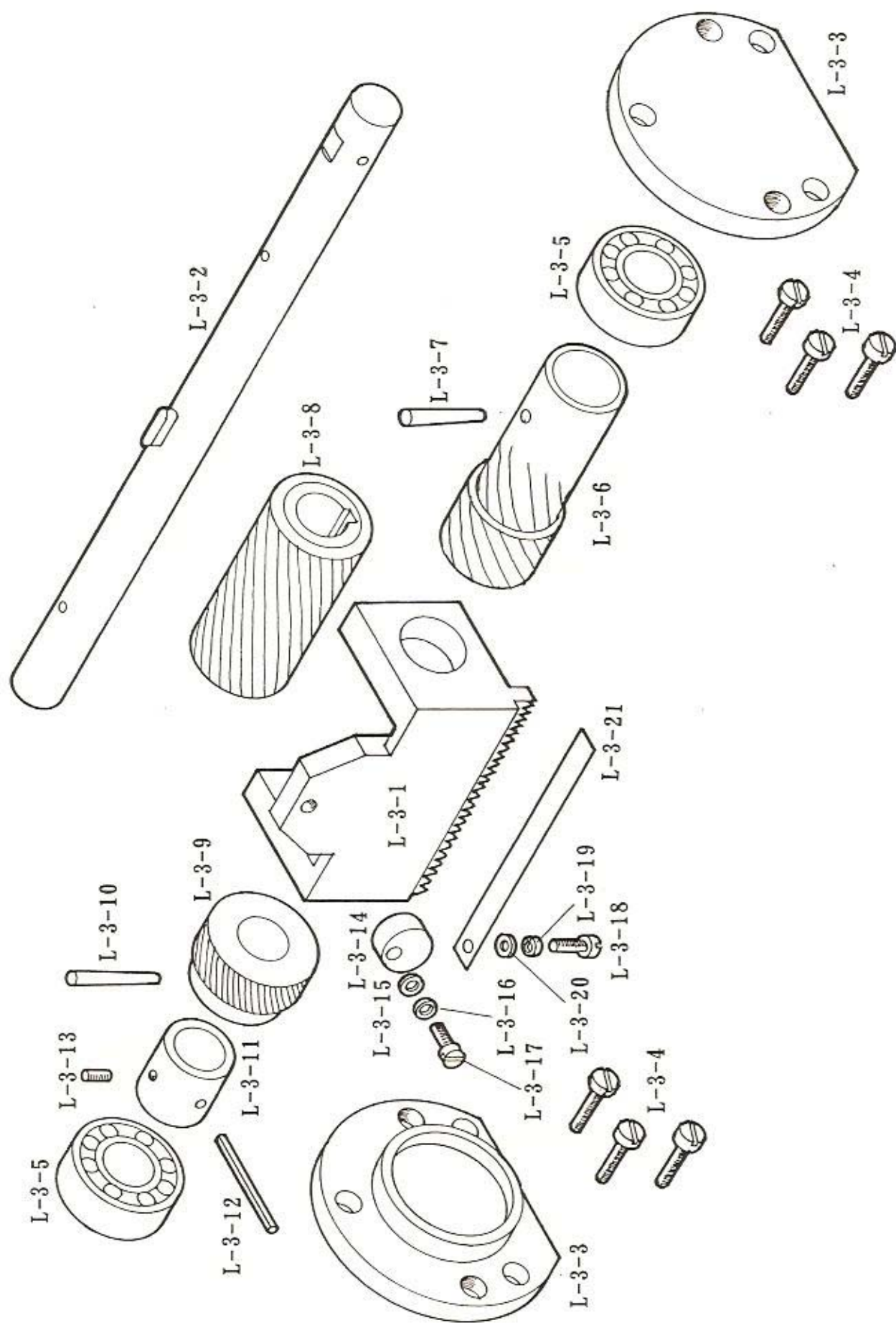
L: CONSTANT SPEED COMPLETE



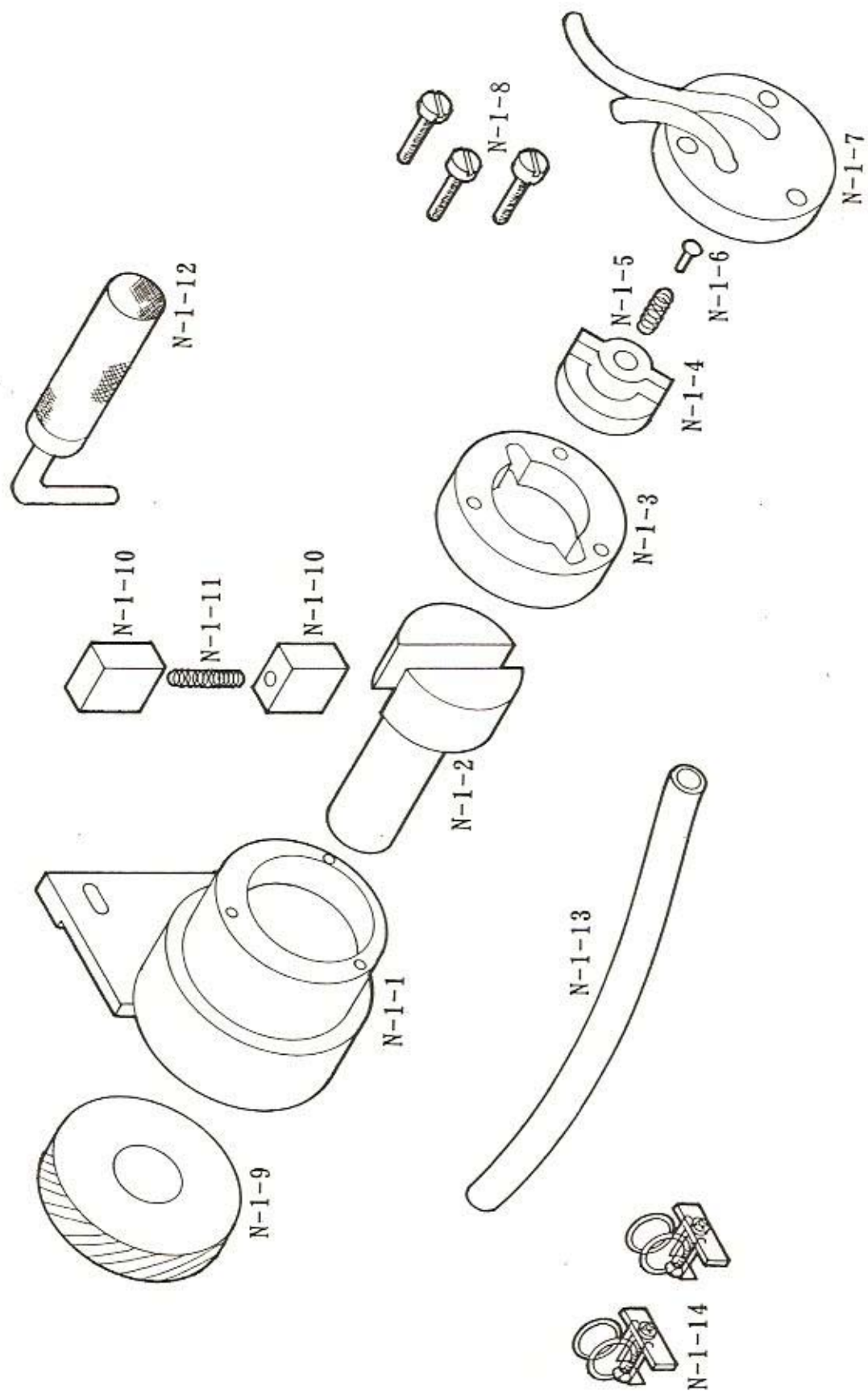
L: CONSTANT SPEED COMPLETE



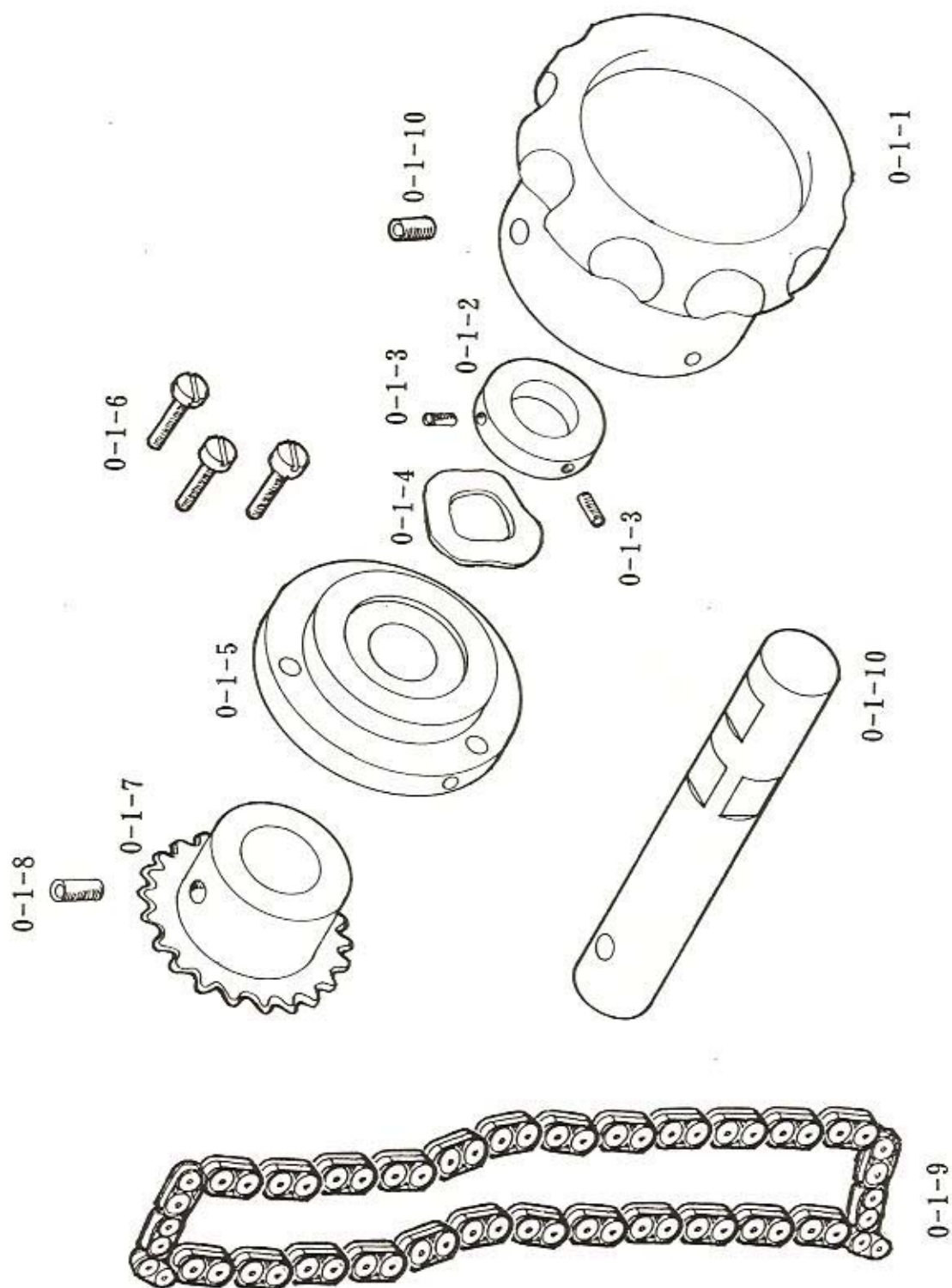
L: CONSTANT SPEED COMPLETE



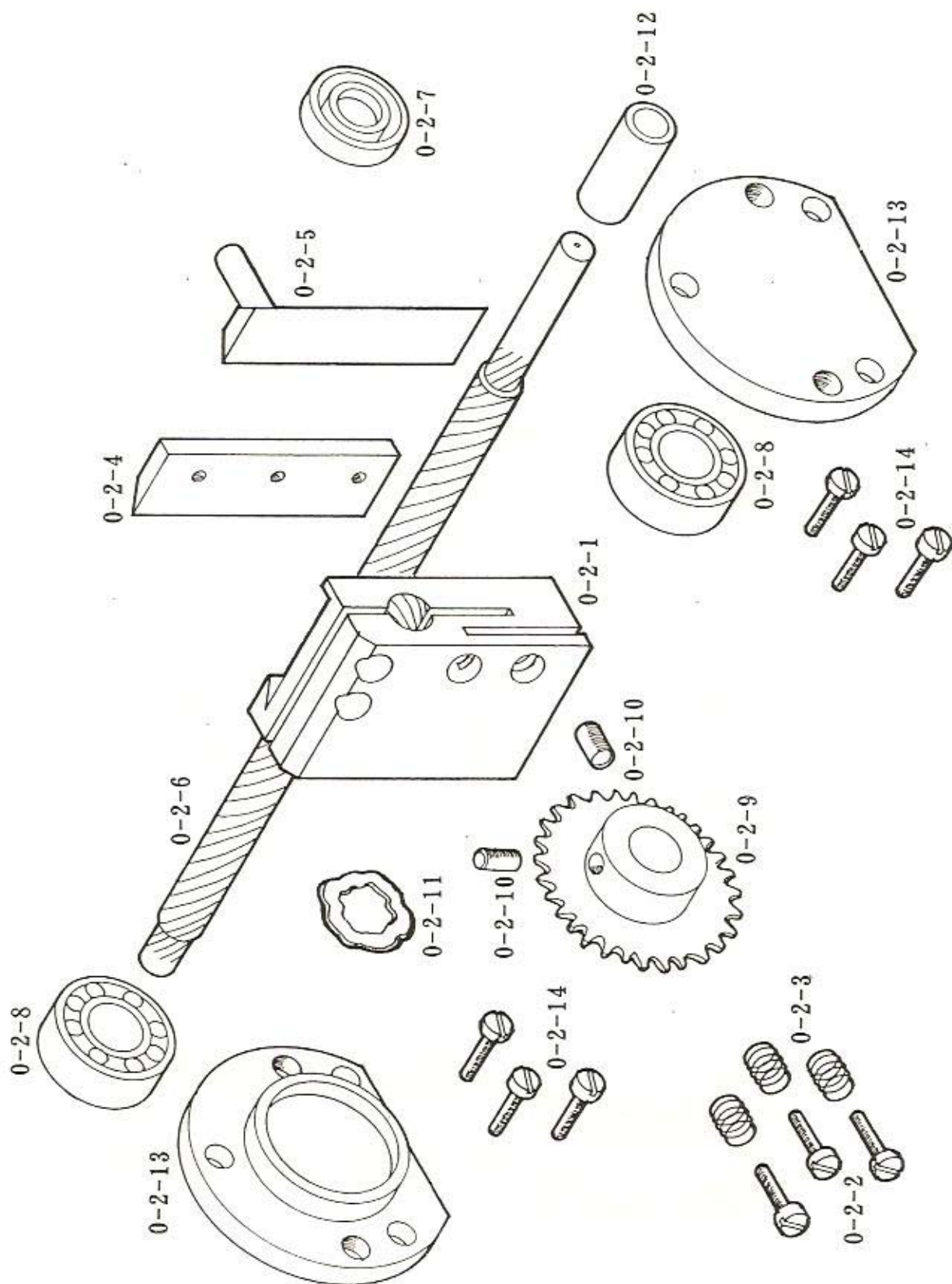
N:GEAR BOX COMPLETE



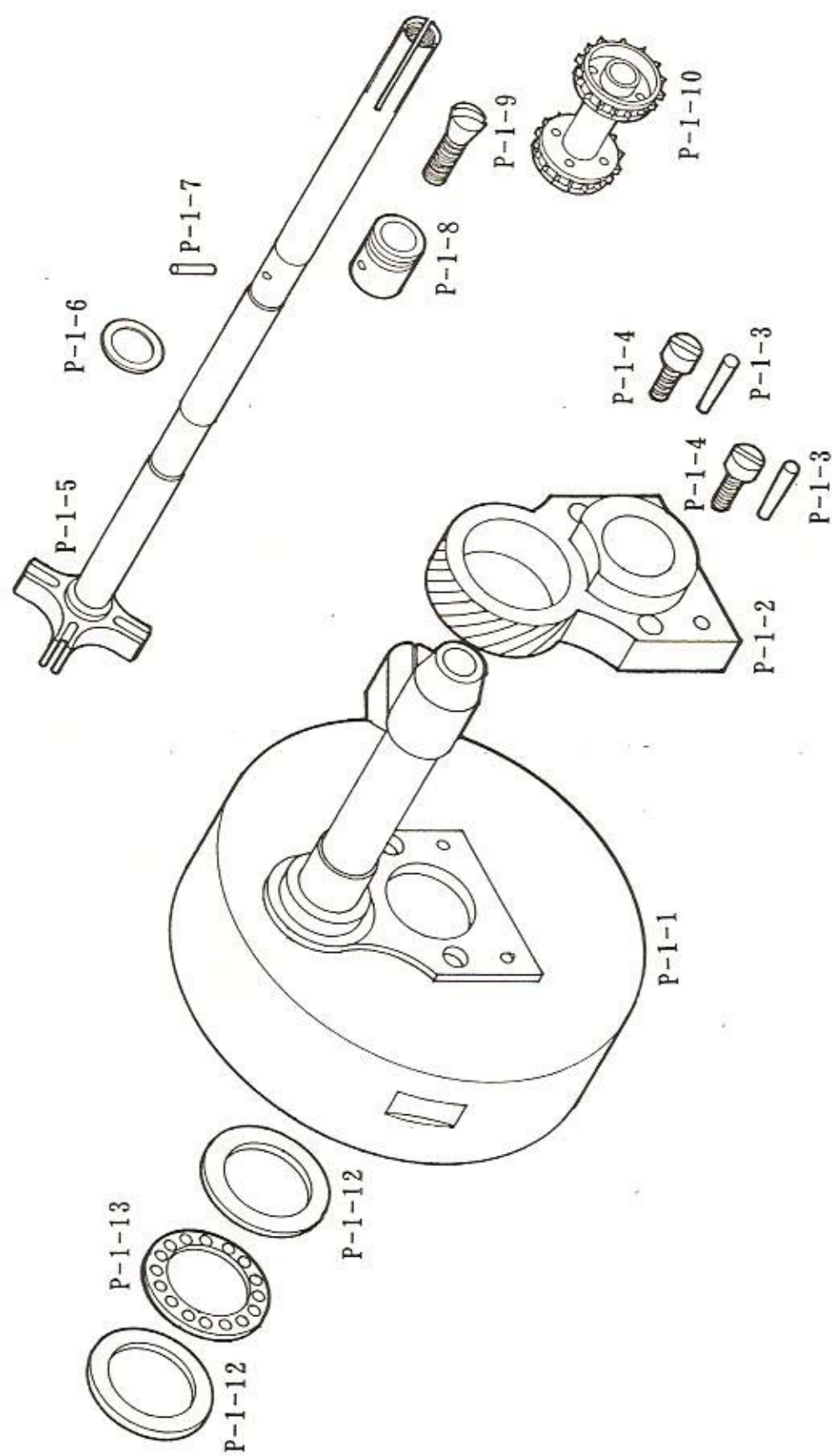
0:FARMING COMPLETE



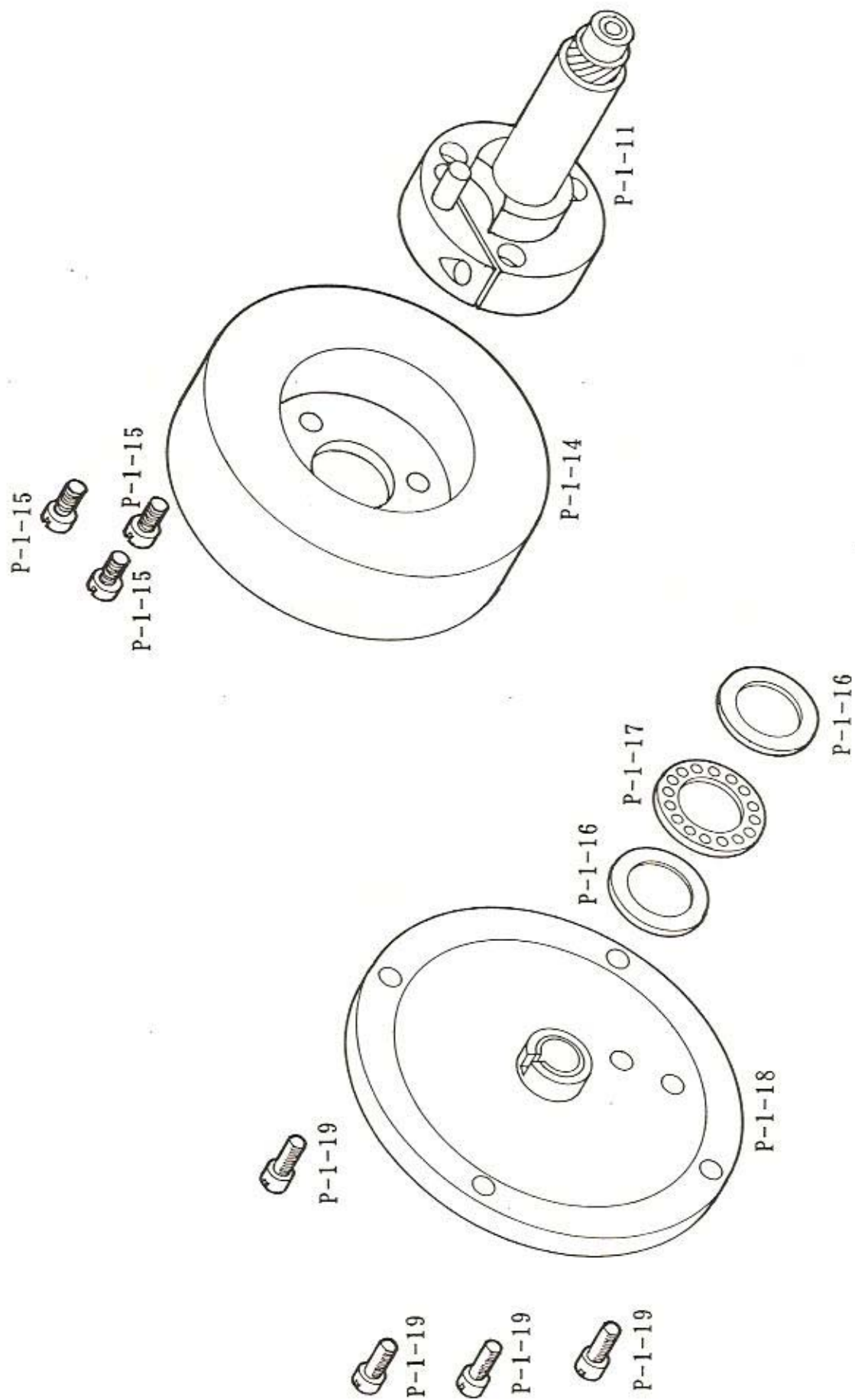
0:FRAMING COMPLETE



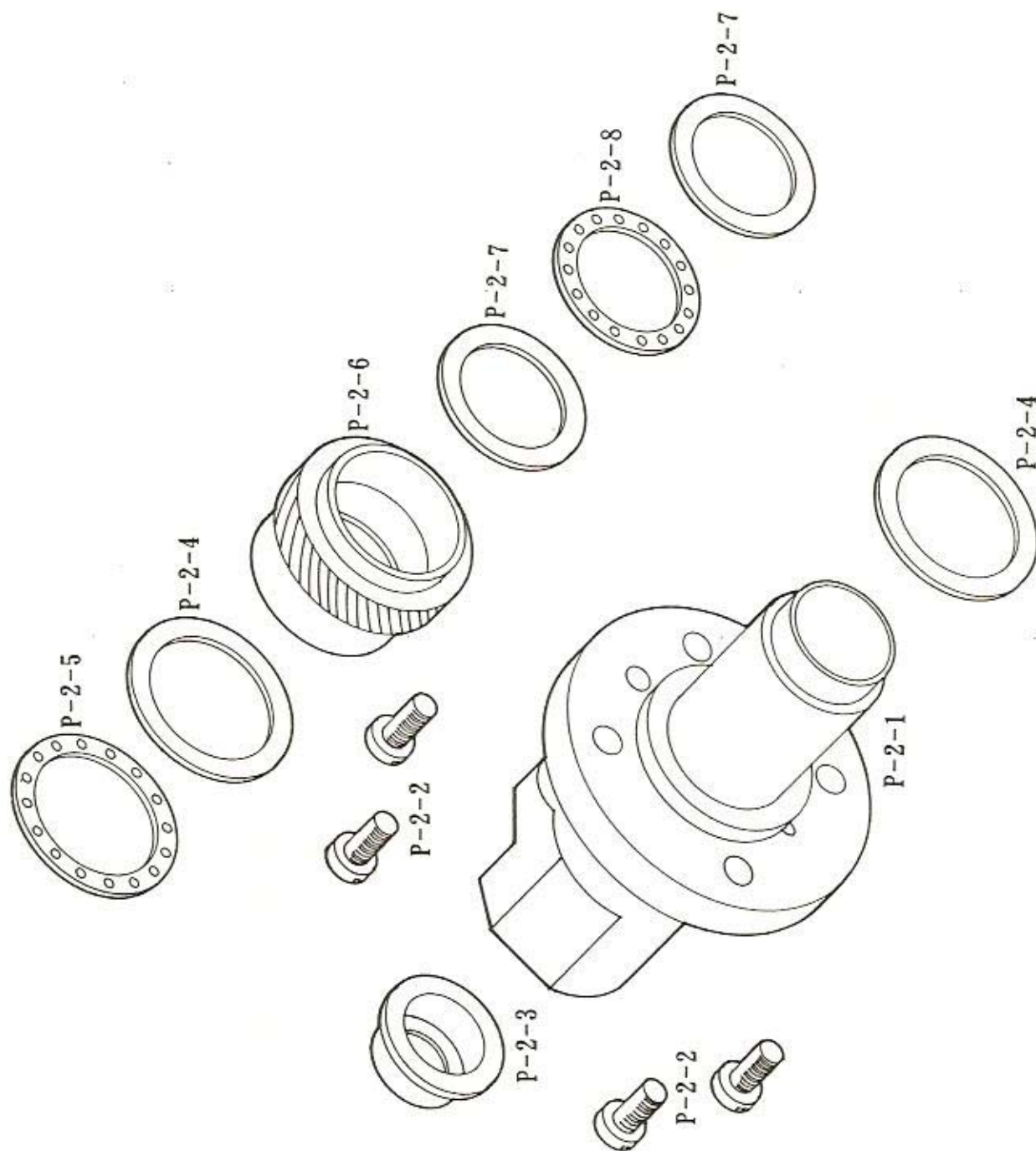
P: INTERMITTENT MOVEMENT MECHANISM COMPLETE



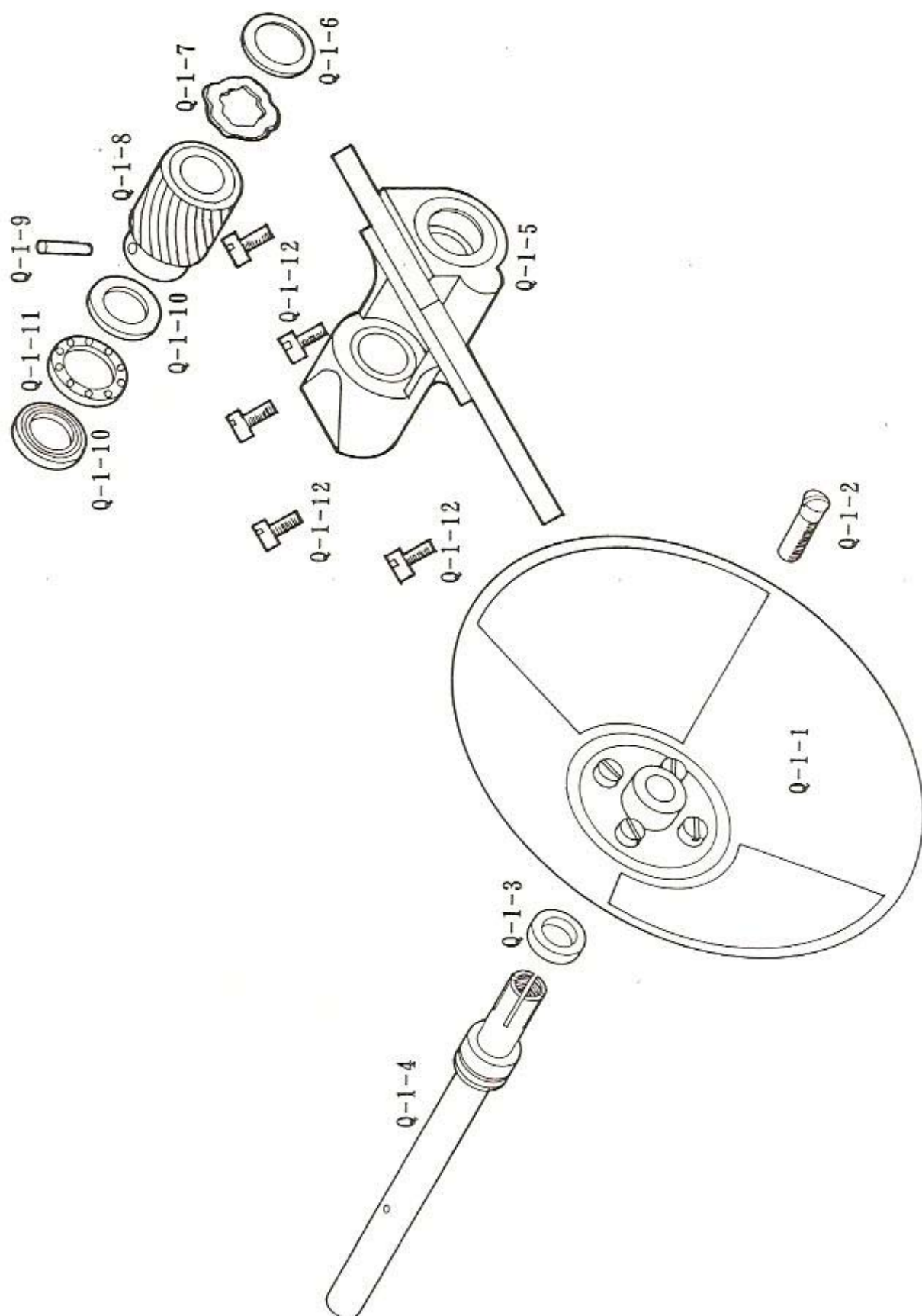
P:INTERMITTENT MOVEMENT MECHANISM COMPLETE



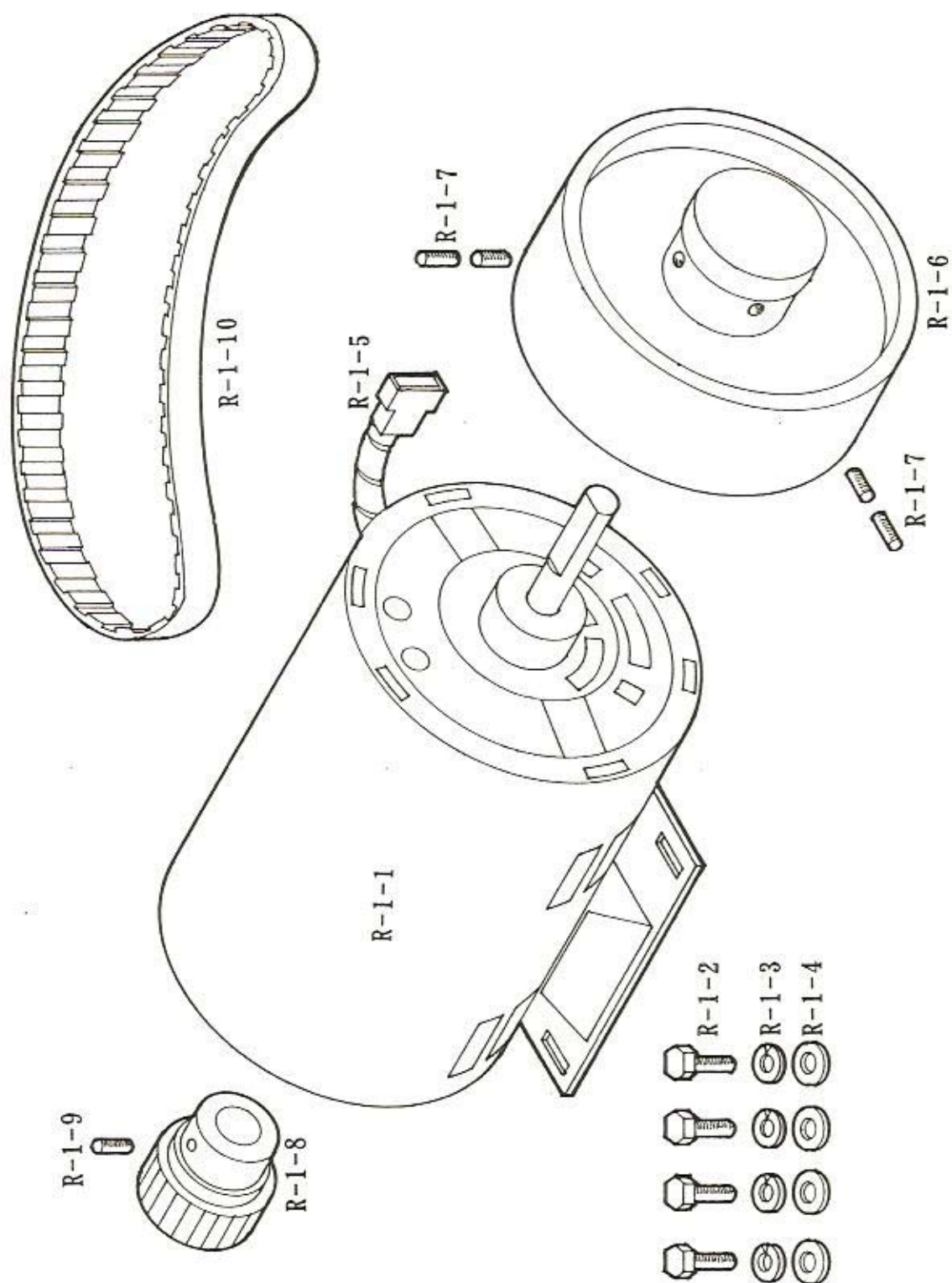
P:INTERMITTENT MOVEMENT MECHANISM MPLETE



Q: SHUTTER COMPLETE



R: MOTOR COMPLETE





CINE FORWARD USER MANUAL
「PARTS LIST」 The third edition-b / 29 March 1999

STAFF

Supervision: I.UEDA

Parts preparation: T.YAMADA

Illustration: H.TAKAHASHI

Assistance: Y.NARISAWA

Bookbinding: H.TAKAHASHI