

Barudan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

MODEL **BENSH-YN**

PARTS LIST

BARUDAN CO., LTD.

ADDRESS 906 JOSUJI
ICHINOMIYA-CITY · AICHI-PREF.
JAPAN

TEL. <0586>76-1137

FAX. <0586>77-1499

TELEX 4573268 BARUNA J

CABLE BARUNA ICHINOMIYA

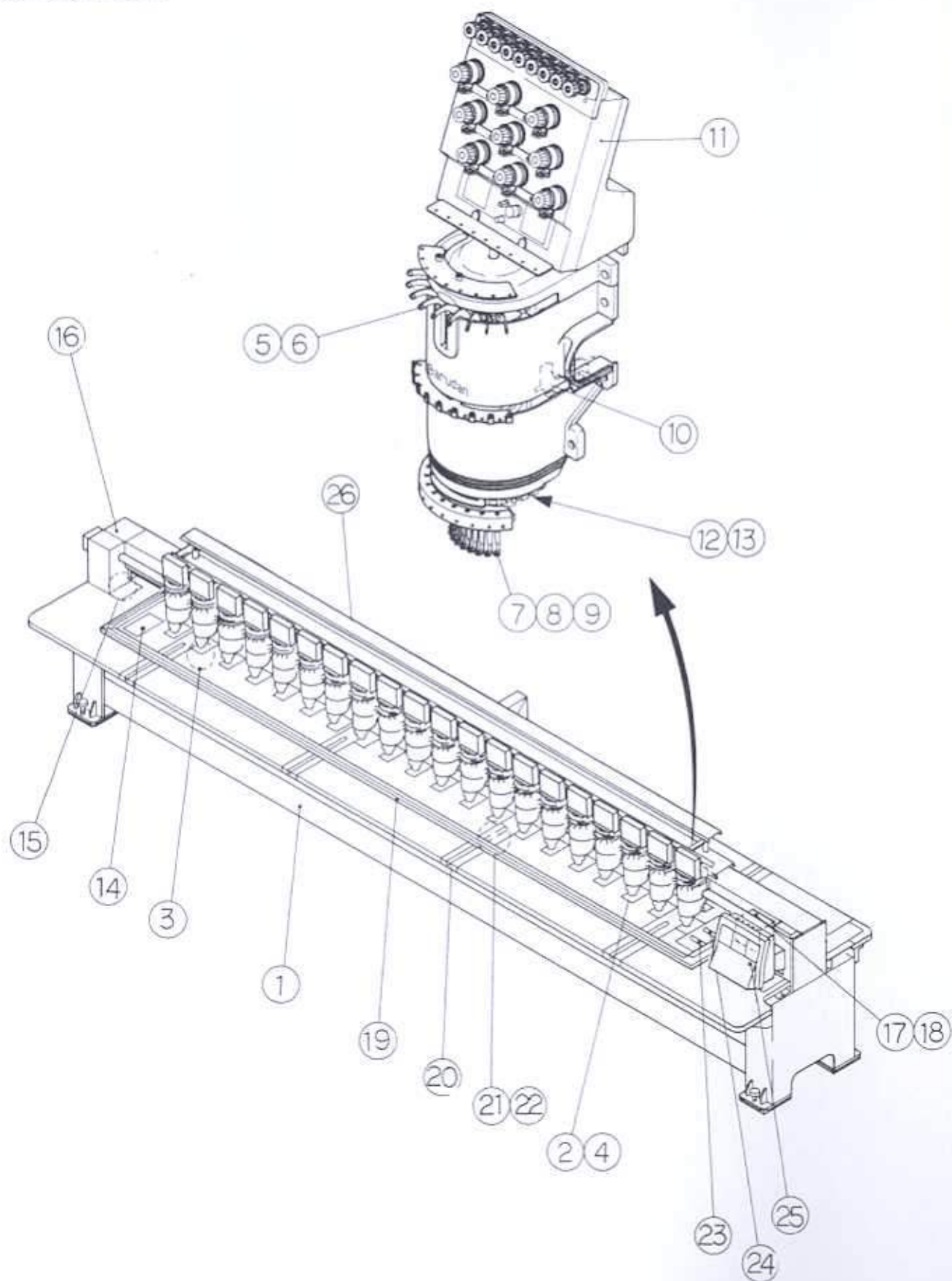
HIGH SPEED AUTOMATIC EMBROIDERY

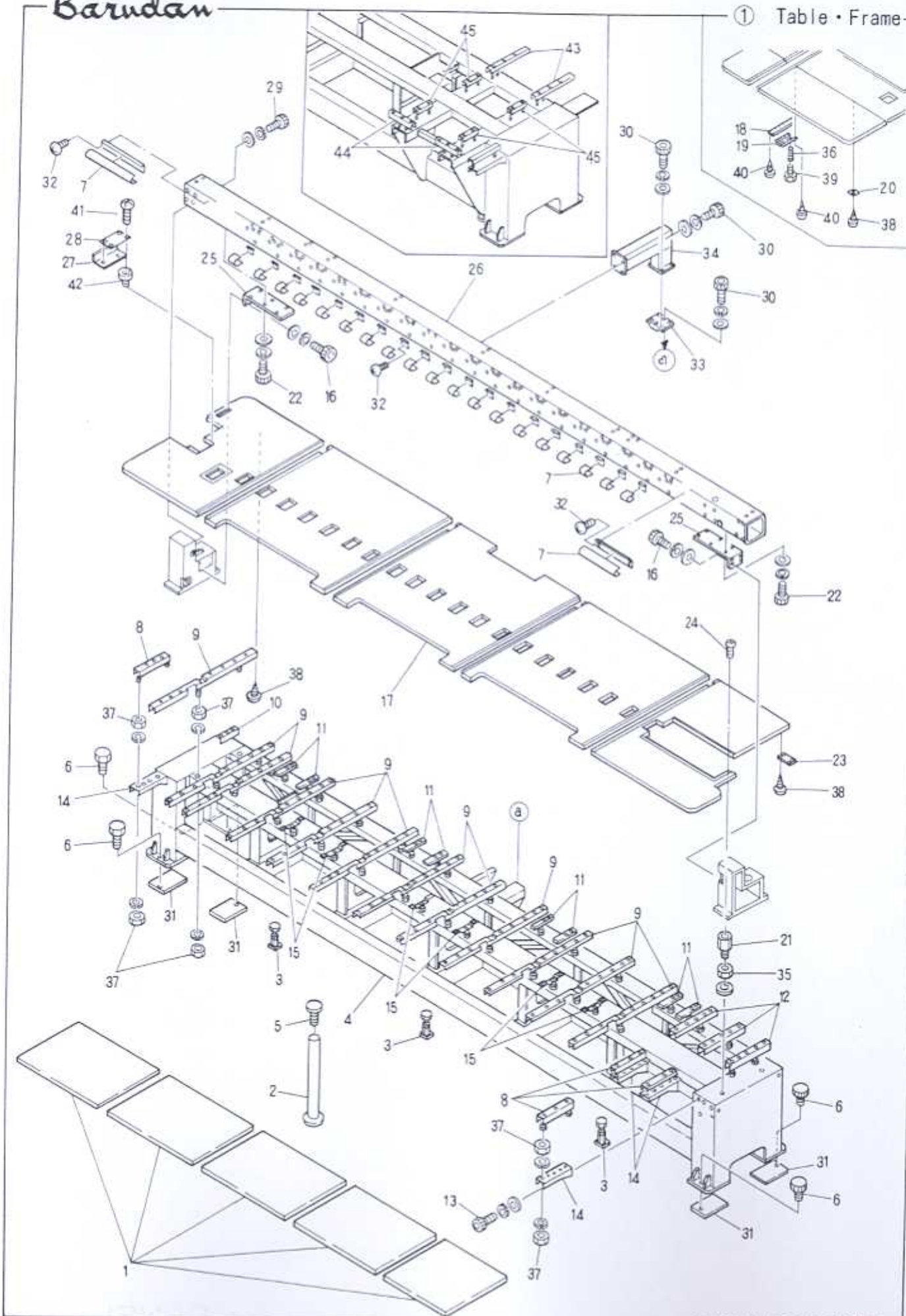
BENSH-YN

MACHINE PARTS LIST

C O N T E N T S

ITEM No.	Page No.
Machine layout BENSH-YN	1
① Table・Frame	2
② Bed a'ssy	4
③ Thread cutting mechanism I (Thread cutting section)	6
④ Encoder a'ssy	8
⑤ Take up lever a'ssy I	10
⑥ Take up lever a'ssy II	12
⑦ Needle bar mechanism I	14
⑧ Needle bar mechanism II	16
⑨ Needle bar mechanism III	18
⑩ Jump a'ssy	20
⑪ Thread guide mechanism	22
⑫ Thread cutting mechanism II (Thread away section)	24
⑬ Thread cutting mechanism III (Thread support section)	26
⑭ Thread cutting mechanism IV (Drive section)	28
⑮ Drive mechanism I	30
⑯ Drive mechanism II	32
⑰ Color change mechanism I	34
⑱ Color change mechanism II	36
⑲ Pantograph drive mechanism I (Pantograph・Guide cover)	38
⑳ Pantograph drive mechanism II (H-Direction・Front)	40
㉑ Pantograph drive mechanism III (H-Direction・Rear)	42
㉒ Pantograph drive mechanism IV (H-Direction・Drive)	44
㉓ Pantograph drive mechanism V (V-Direction・Two rails and LM guide use)	46
㉔ Pantograph drive mechanism V (V-Direction・Three rails)	48
㉕ Pantograph drive mechanism VI (V-Direction・Drive)	50
㉖ Control system	52
㉗ Option	54
㉘ Thread guide mechanism (Lower thread sensorium)	56
INDEX	58





① Table Frame

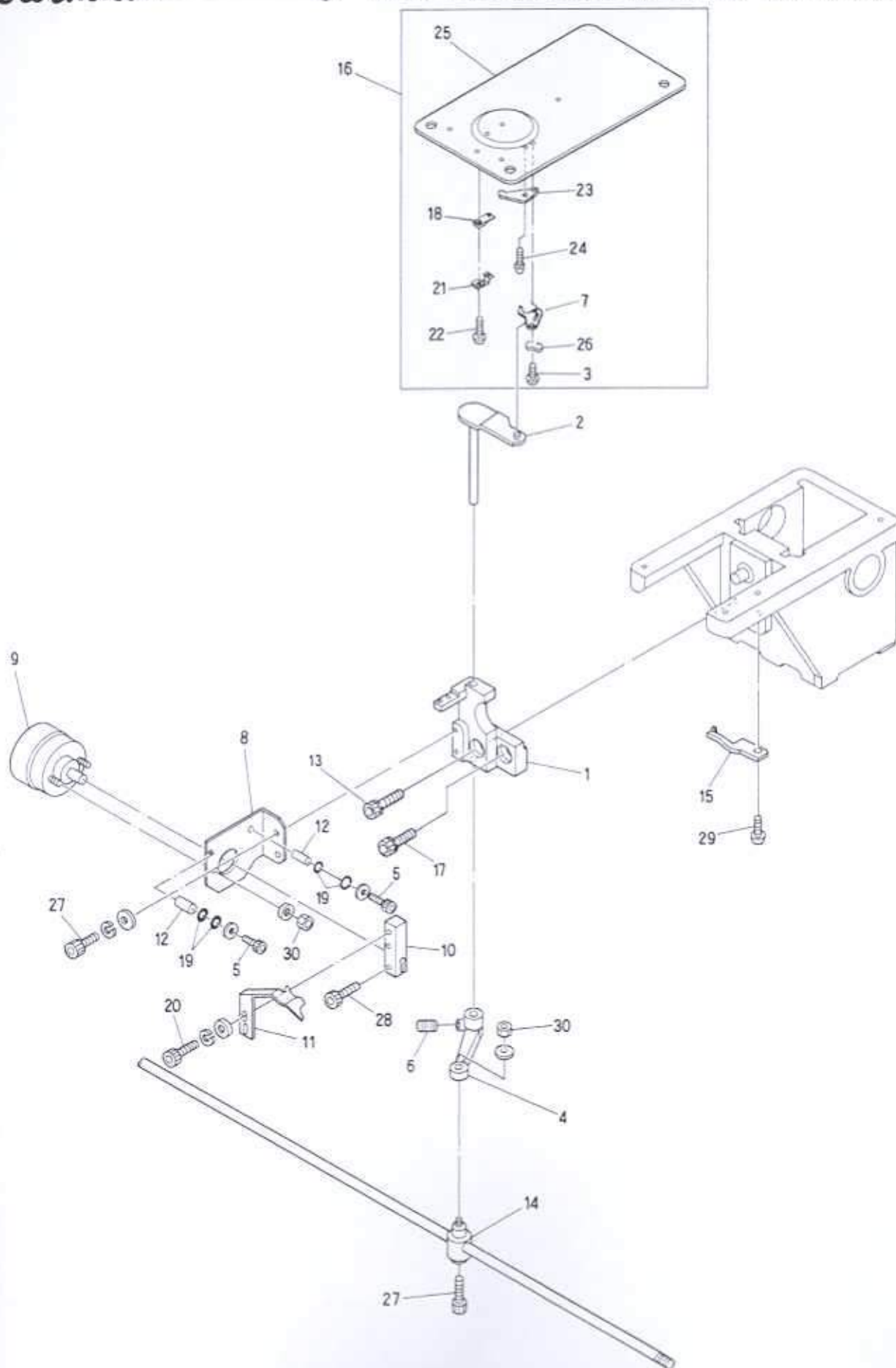
(※Change the LIST No. by machine type)

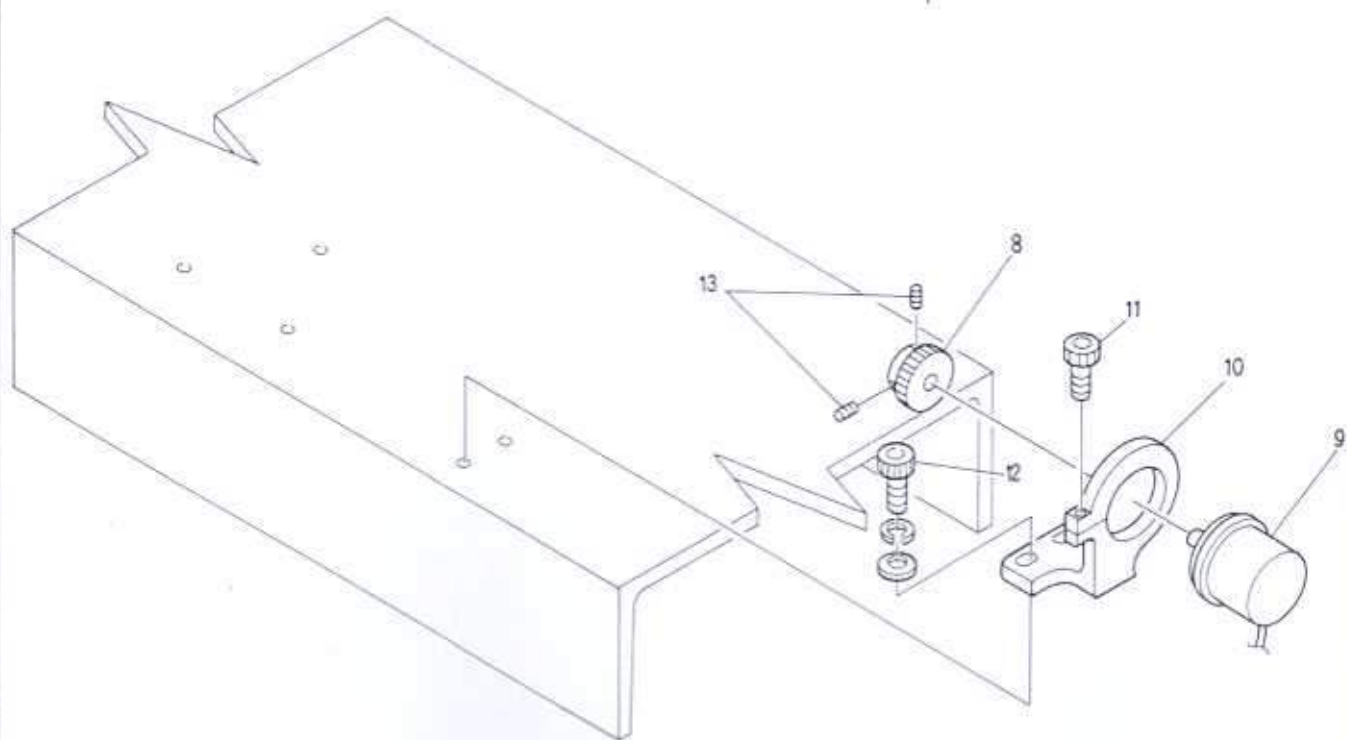
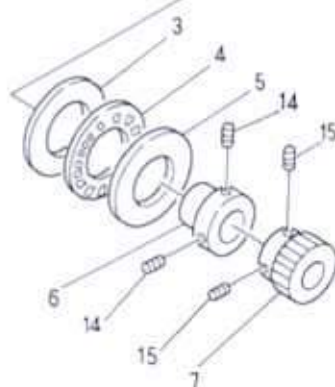
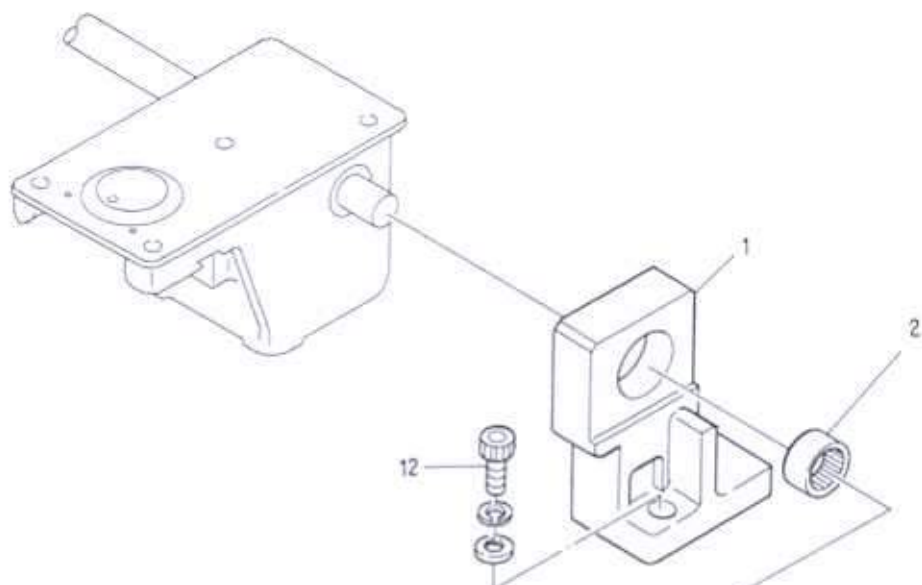
ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	IKHY3018560045H	Shelf board	1	※
2	WW140070	Table holder	5	
3	HP120020	M16 Mid jack bolt	6	
4	IAHB2024053045G	Frame	1	※
5	A9012213	Level adjuster (C-1275-A-4)	5	
6		Hex. bolt M20×65	4	
7	LSHB20240530J	Shaft cover mori YS-20 P=240/530	1	※
8	HP140111	Table support (310L)	4	※
9	HP141450	Table support (1169L) With notch	12	※
10	HH140260	Table support (215L)	1	※
11	HP140841	Sub table support (215L)	8	
12	HP140490	Table support (480L)	4	※
13		Hex. socket bolt M8×20		
14	HP140120	Table support bracket	4	
15	HP141080	Sub table support (230L)	6	※
16		Hex. socket bolt M10×40		
17	IBHY3018560045H	Table	1	※
18	HP14010085	Table support (For H Strok 7850)	1	
19	HP140090	Table support		
20	HP141090	Movable table support		
21	HP140170	Table support bolt	1	
22		Hex. socket bolt M10×30		
23	KC140121	Table reinforcement plate	1	
24		Truss screw M6×35		
25	HP130021	Bridge support	2	
26	IBHY3018560045H	Bridge	1	※
27	HV310030	Shaft support cover	1	
28	HP321110	Lower shaft connecting coupling cover	1	
29		Hex. socket bolt M12×40		
30		Hex. socket bolt M8×25		
31	HP120030	Base plate (200×200×T1)	5	
32		Truss screw M5×10		
33	HB130040	Bridge support base (center)	1	
34	HB13008045	Bridge support H Strok 450	1	※
35		Hex. nut M8		
36	HH140940	Spring		
37		Hex. nut 3/8		
38		Truss plas biss 5×23		
39		Hex. bolt M8×25		
40		Wood screw 5.1×25		
41		Truss screw M8×25 (Undercut)		
42		Nut (C) M4		
43	HW140040	Table support (400L, P=70)	2	
44	HW140050	Table support (240L, P=70)	2	
45	HW140030	Table support (155L, P=135)	4	

② B e d a ' s s y

(H=Head 0' T)

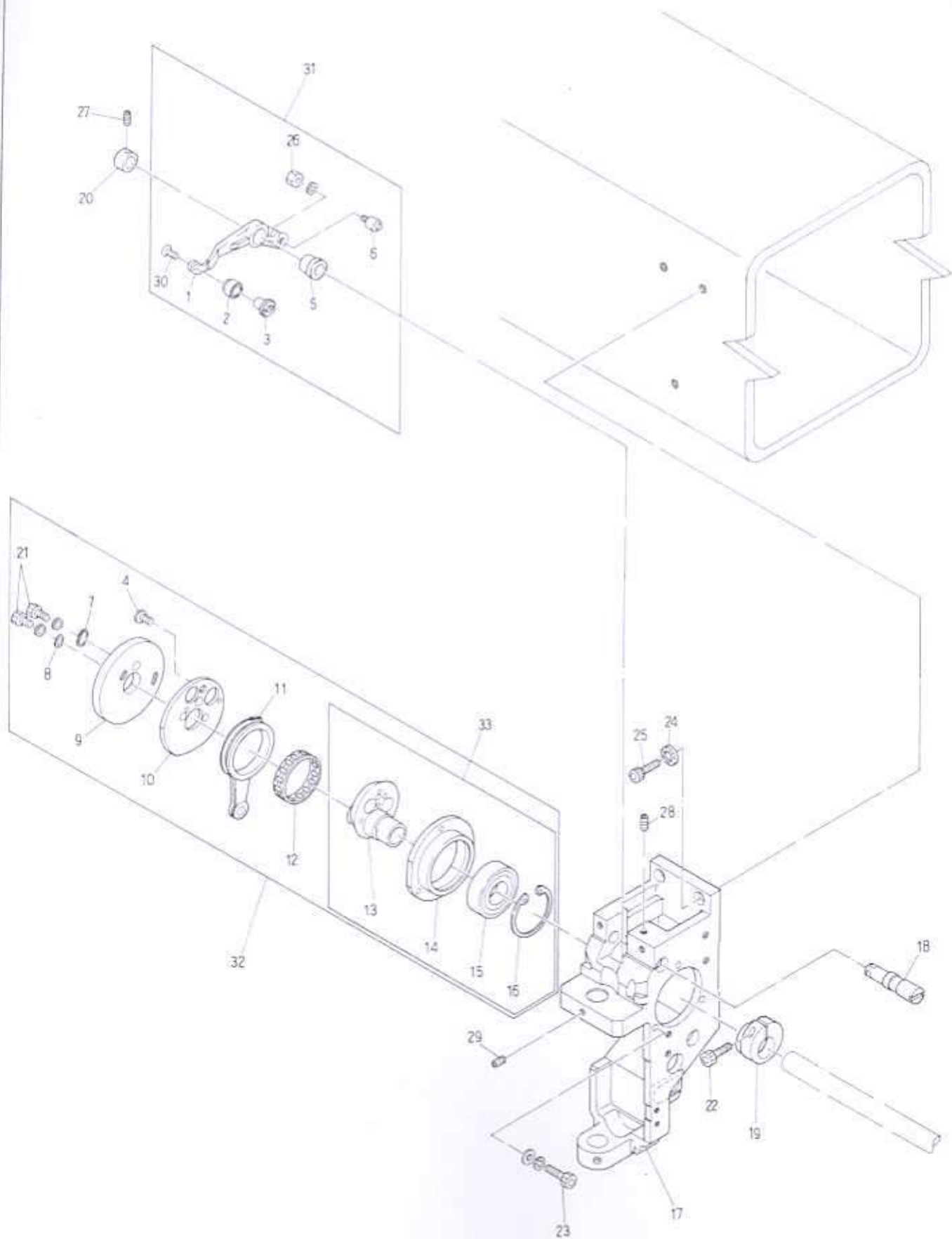
[illegible]

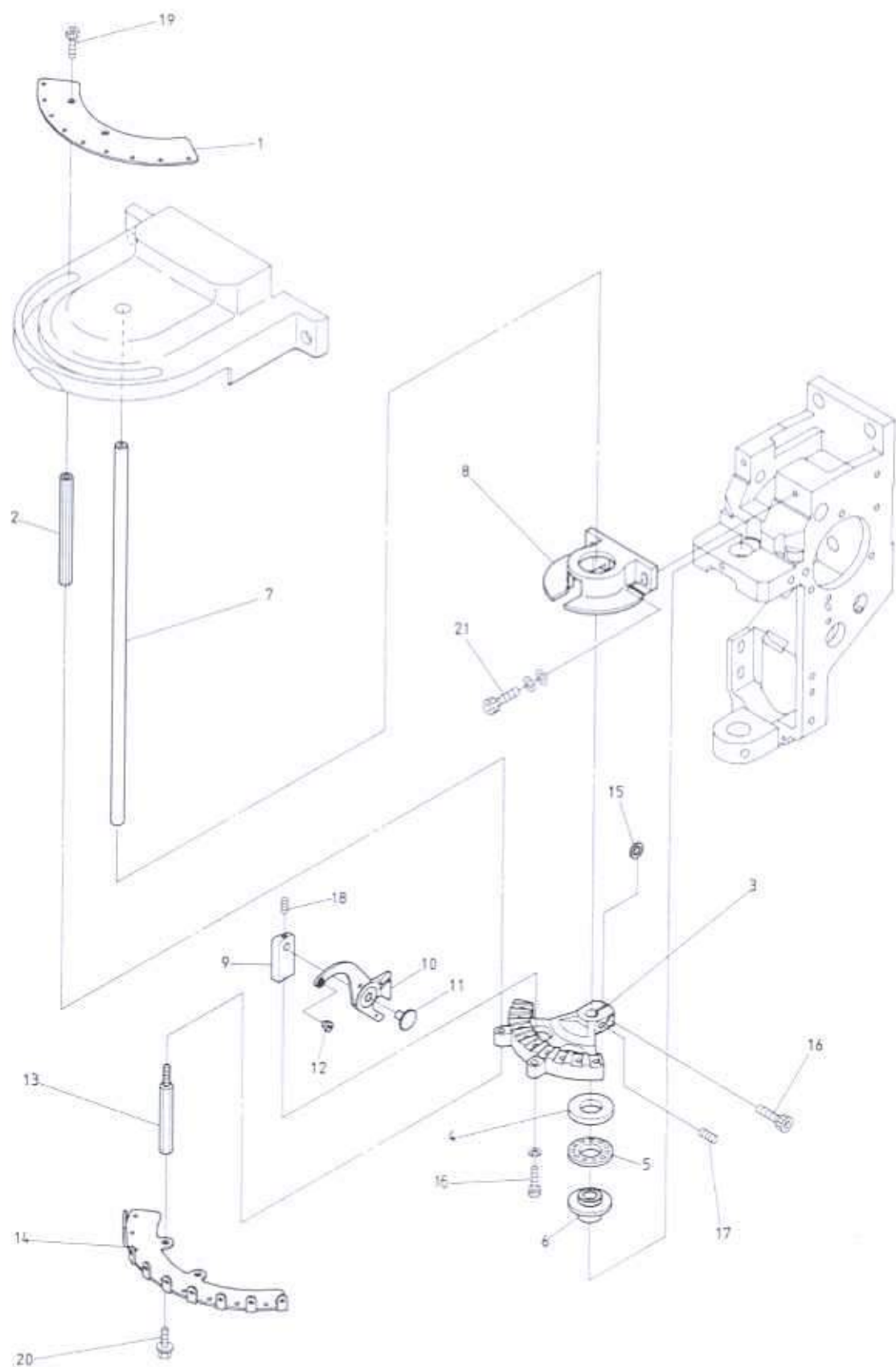




④ Encoder assembly

[illegible]





⑥ Take up lever assembly II

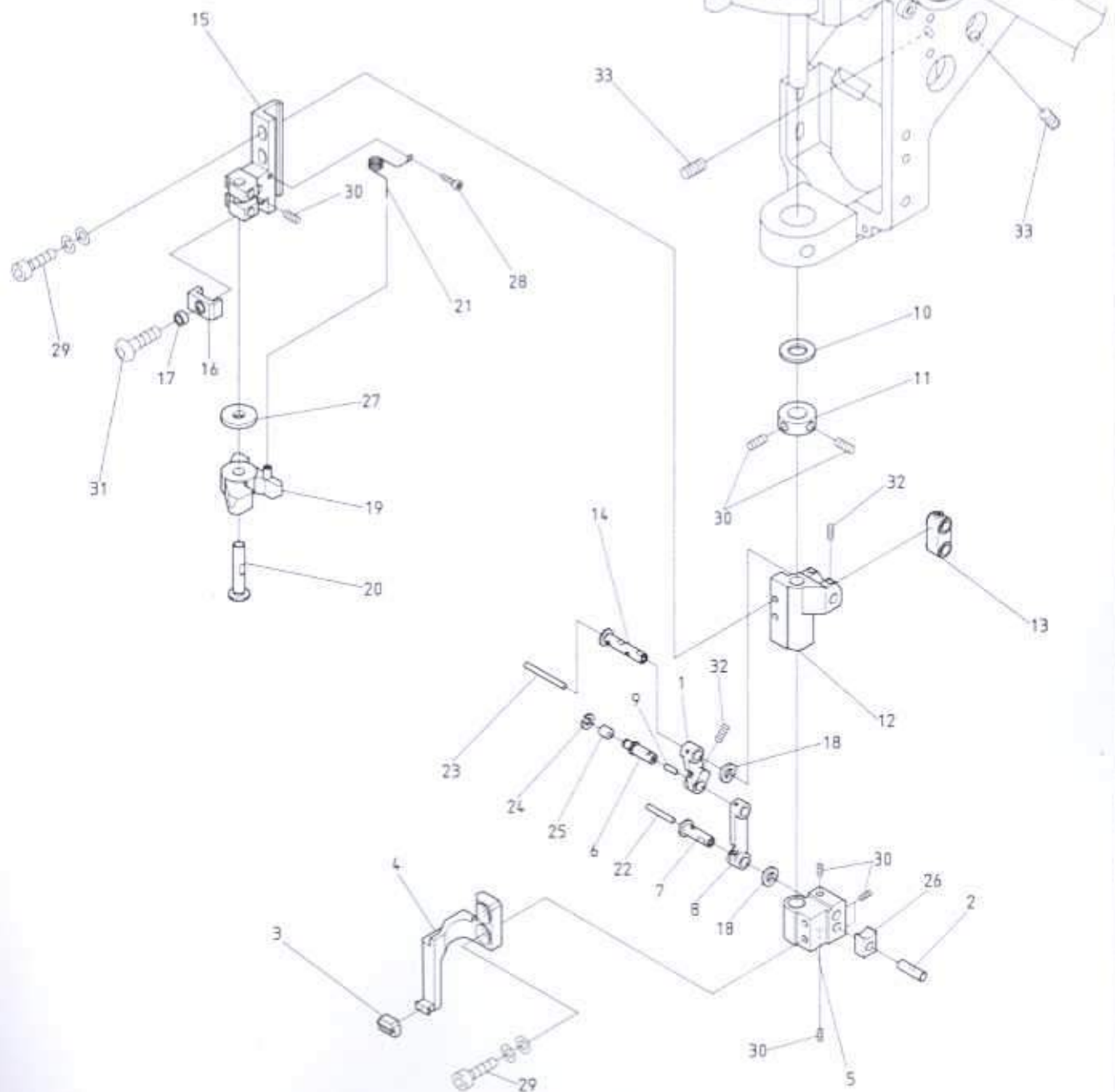
(H=Head Q' TY)

[illegible]

⑦ Needle bar mechanism I

(H=Head Q'TY)

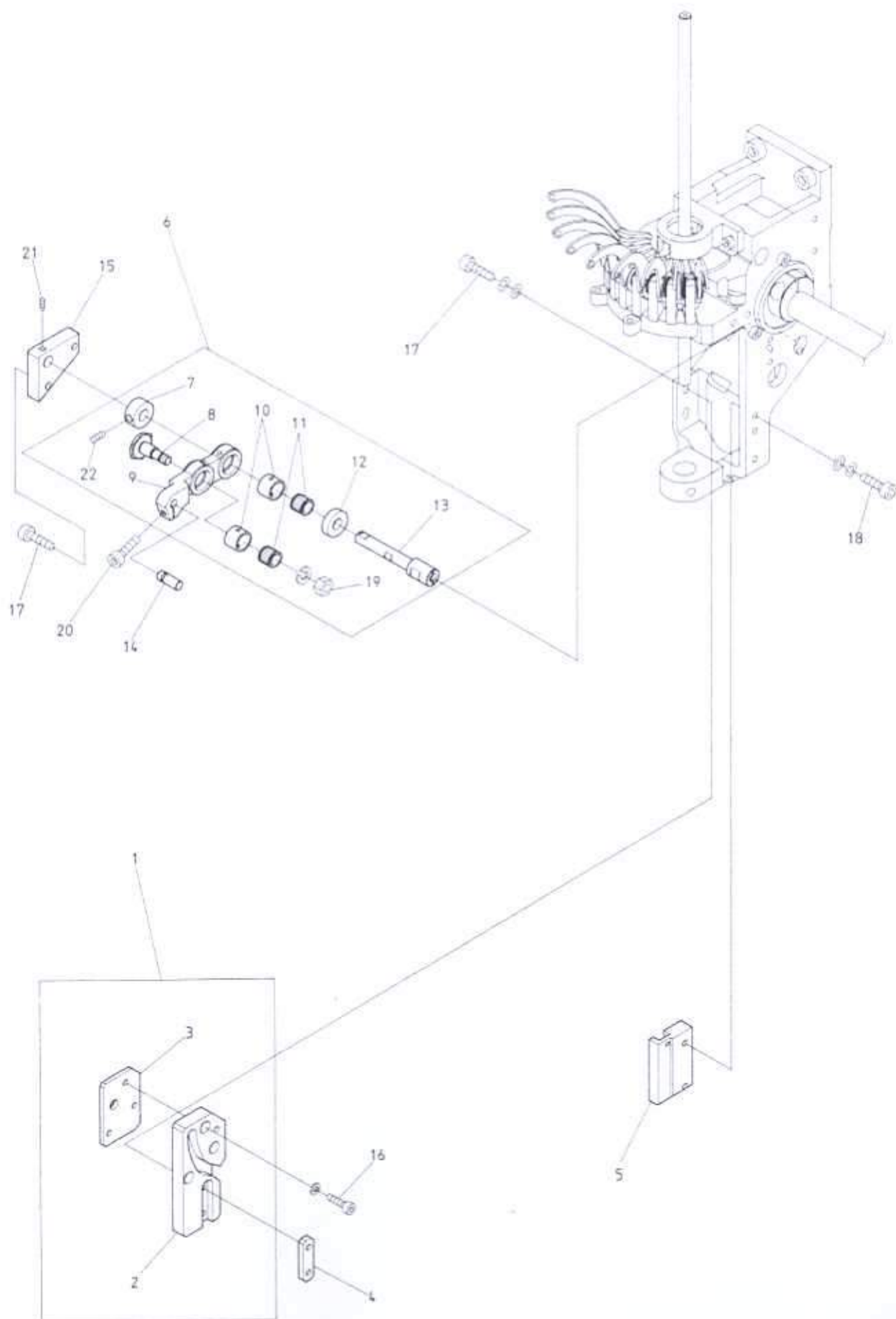
ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1		Turning plate a'ssy	H×1	
2	HT230130	Needle bar cap	H×9	
3	HB230190	Lock lever shaft	H×1	
4	KF230640	Lock connecting bar clamp	H×1	
5	KC330410	Lock connecting rod (L-2000)	6	
6	HT230810	Needle bar a'ssy	H×9	
7	HT230251	Needle bar spring (Upper)	H×9	
8	HT230141	Pressure foot	H×9	
9	KF230910	O-Ring (Small) P-6	H×9	
10	HT230120	Washer 2.4	H×9	
11	HT230670	Needle clamp (With hook)	H×9	
12	KF230250	Needle (DBK5-11)	H×9	
13	KF230240	Needle clamp screw (SM9/64)	H×9	
14	HT230570M	Turning plate	H×1	
15	HT230690	Turning plate felt (Upper)	H×1	
16	A9014055	O-Ring (IAS-7) S-7	H×1	
17	HT230062	Needle bar spring (Under)	H×18	
18	A9011023	Thrust bearing outer (GS1528)	H×2	
19	A9011021	Thrust bearing (NTB-1528)	H×2	
20	A9011022	Thrust washer (AS-1528)	H×1	
21	HT230550	Driving shaft lower metal	H×1	
22	HT230180	Turning plate joint pin	H×1	
23	KF330180	Lock bar hand grip	4	
24	HB230180	Lock lever bracket	H×1	
25	KL230180	Lock lever	H×1	
26	KF230661	Lock lever spring	H×1	
27	KF230670	Lock lever spring pin	H×1	
28	HT230151	Needle bar guide	H×1	
29	HT230041	Needle bar	H×1	
30	HT230330	Cloth winder stop latch set clamp	H×1	
31		Hex. socket set screw M4 ×4		
32	HT230111	Turning plate felt	H×1	
33	A9012053	Hex. socket set screw (With steel ball) M6 ×0.7×8	H×2	
34	HT230262	Washer (For set clamp)	H×9	
35		Hex. socket button bolt M4 ×5		
36		Hex. socket bolt M8 ×18		
37		Hex. socket set screw M6 ×6		
38		Hex. socket set screw M4 ×6		
39		Hex. socket set screw M5 ×5		
40		Hex. nut M4 (□)		
41		Hex. socket bolt M3 ×8		
42		Hex. socket set screw M4 ×4 (With adhesion)		

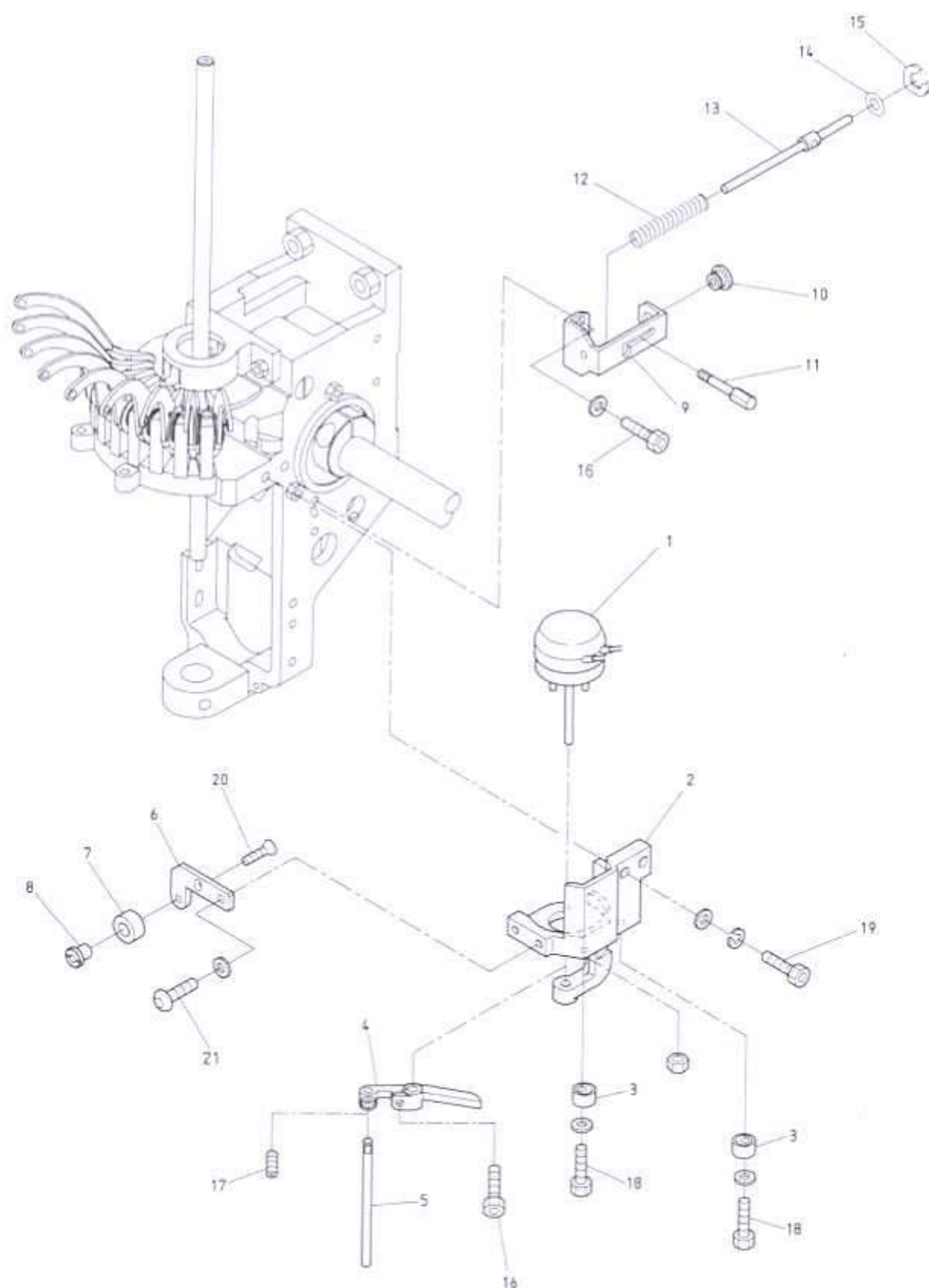


⑧ Needle bar mechanism II

(H=Head Q' TY)

[illegible]

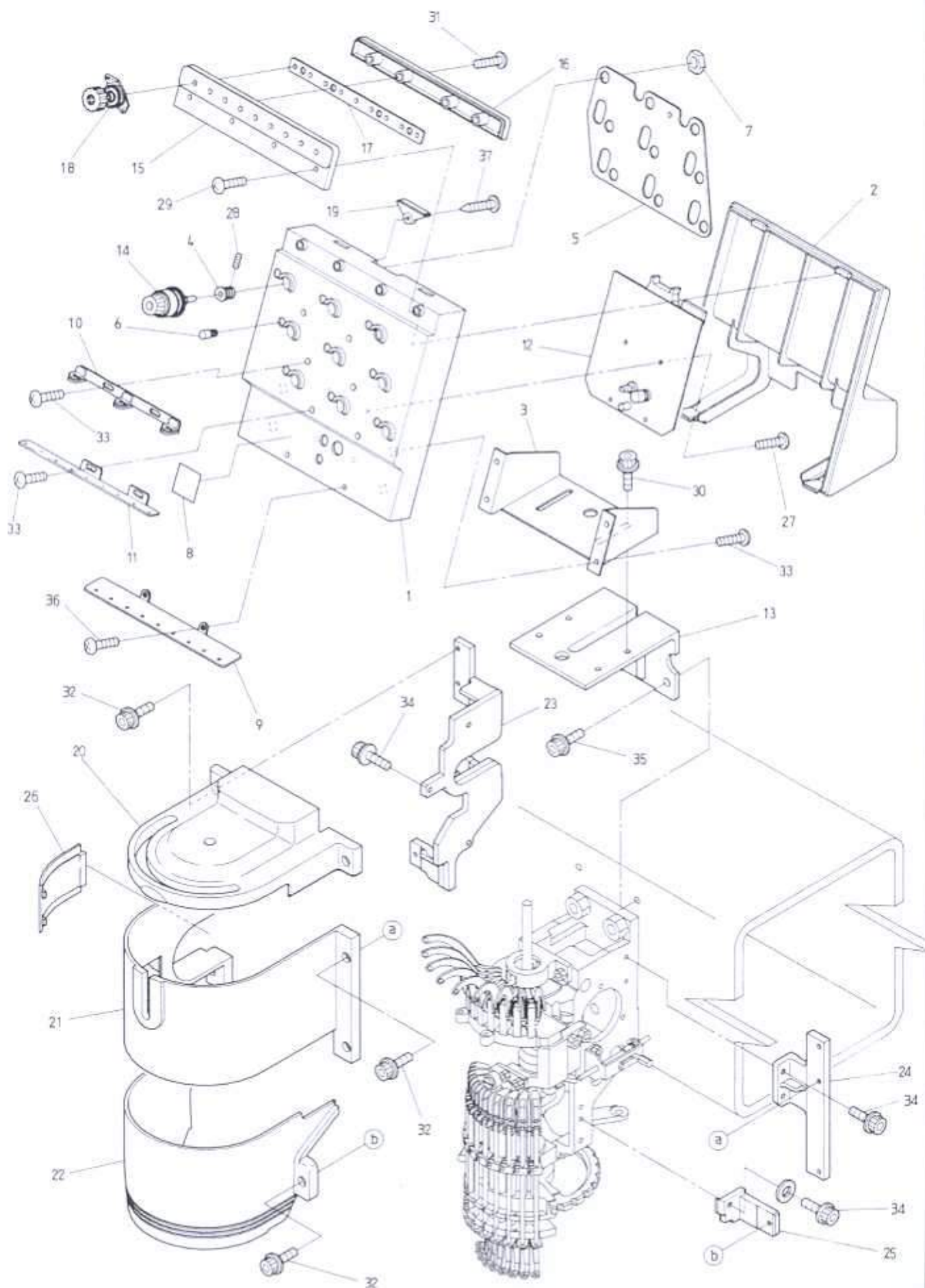




⑩ Jump a' ssy

(H=Head 0' TY)

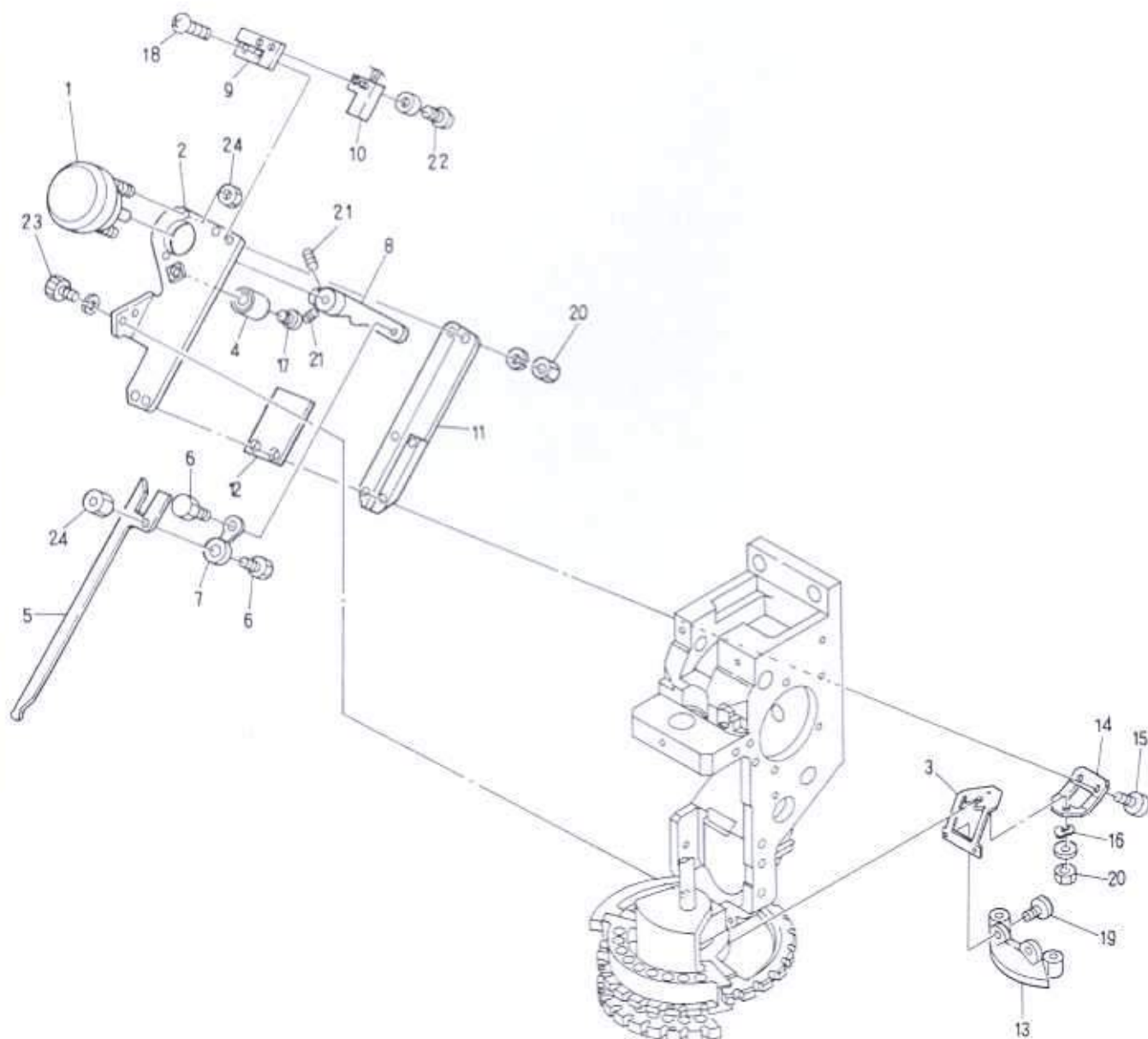
[illegible]

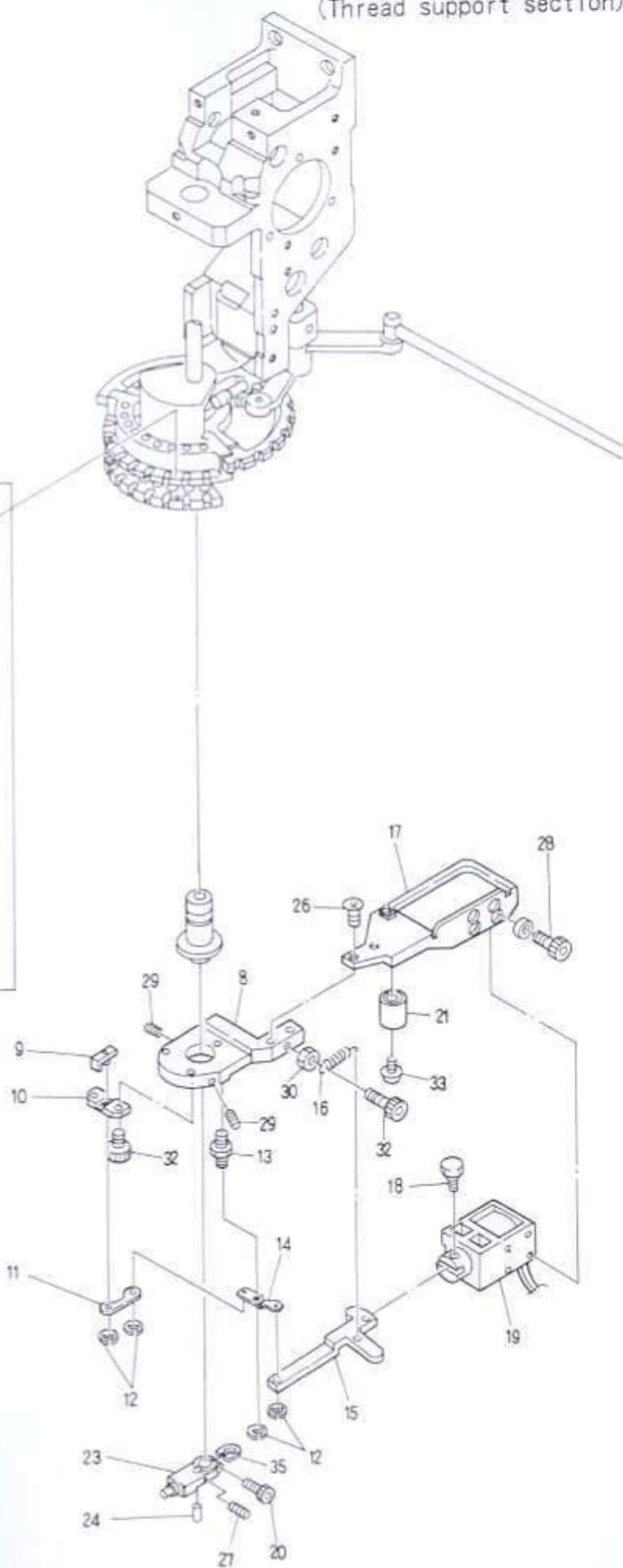
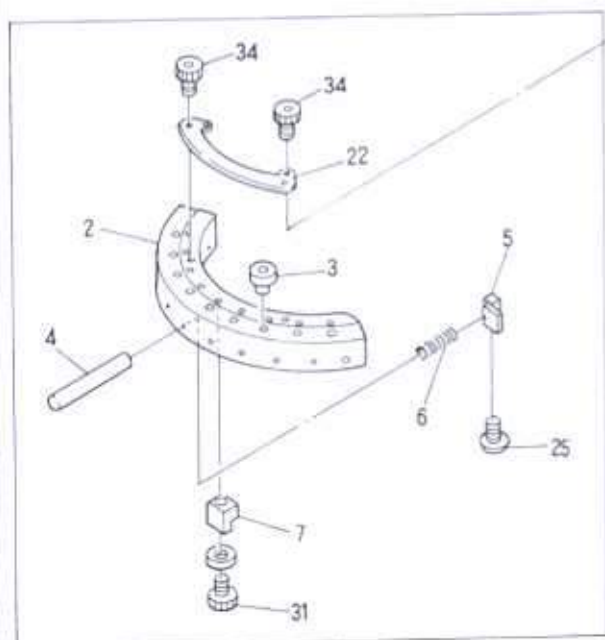


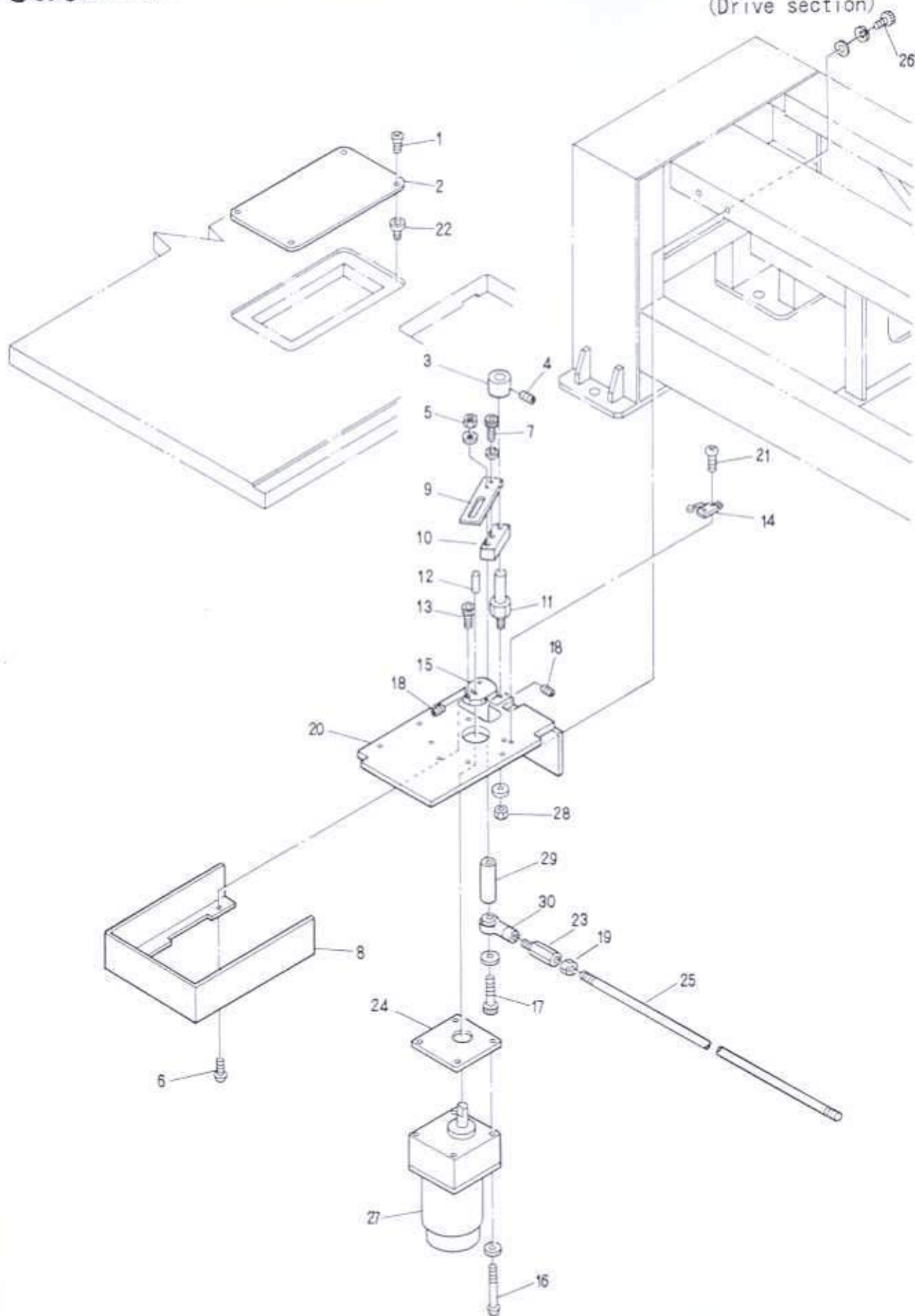
⑪ Thread guide mechanism

(H=Head Q' TY)

[illegible]

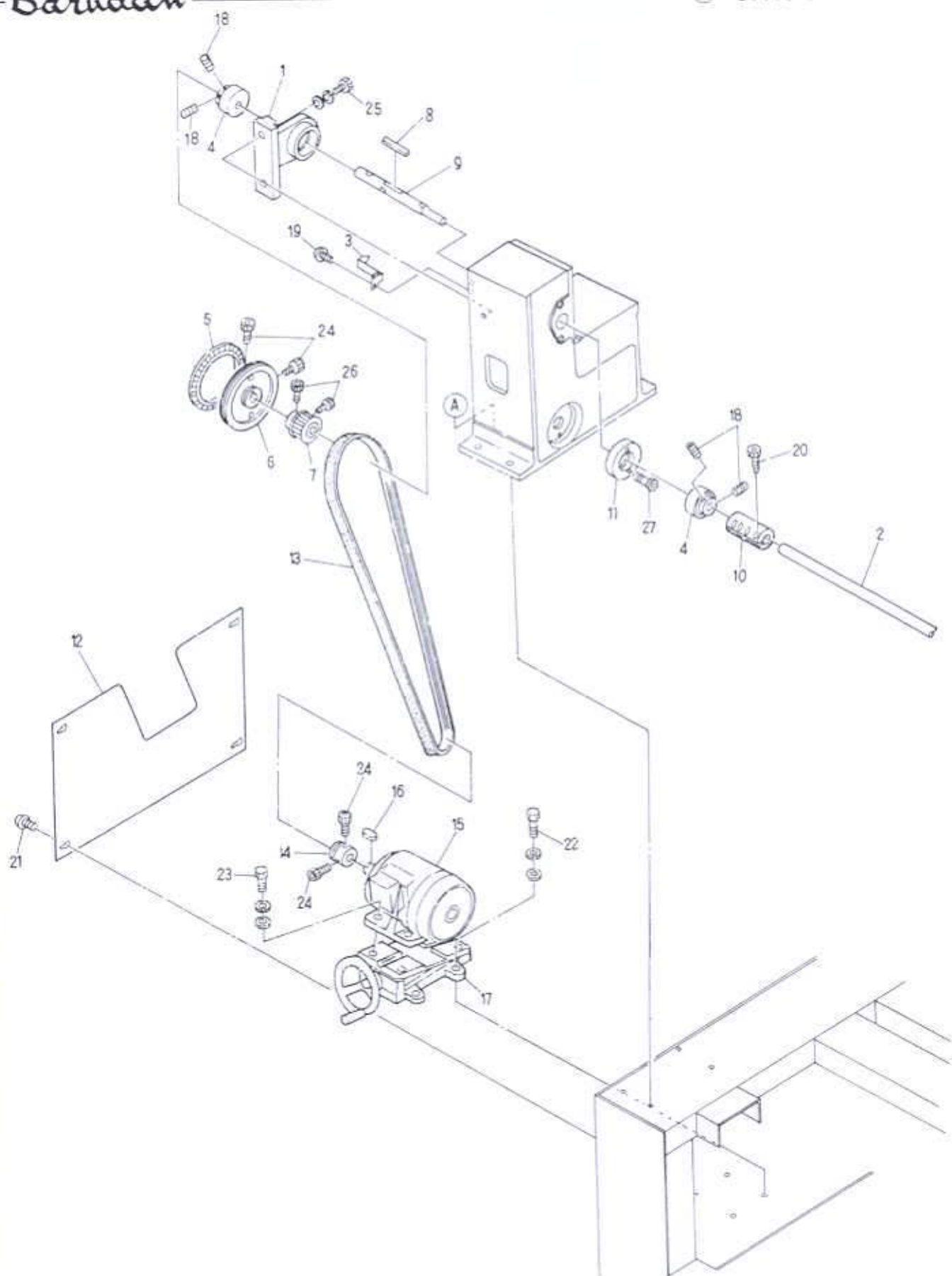


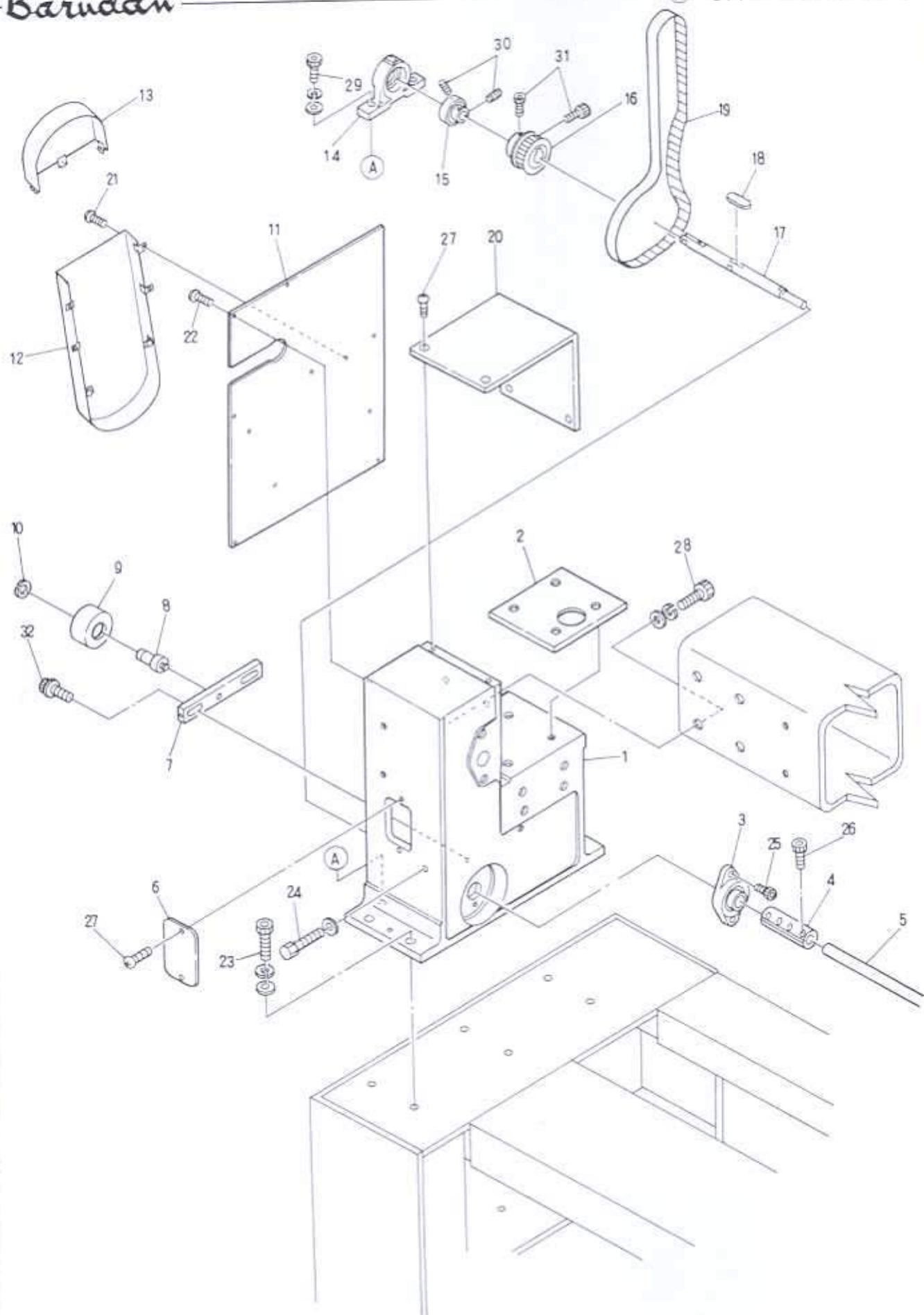




⑭ Thread cutting mechanismIV (Drive section)

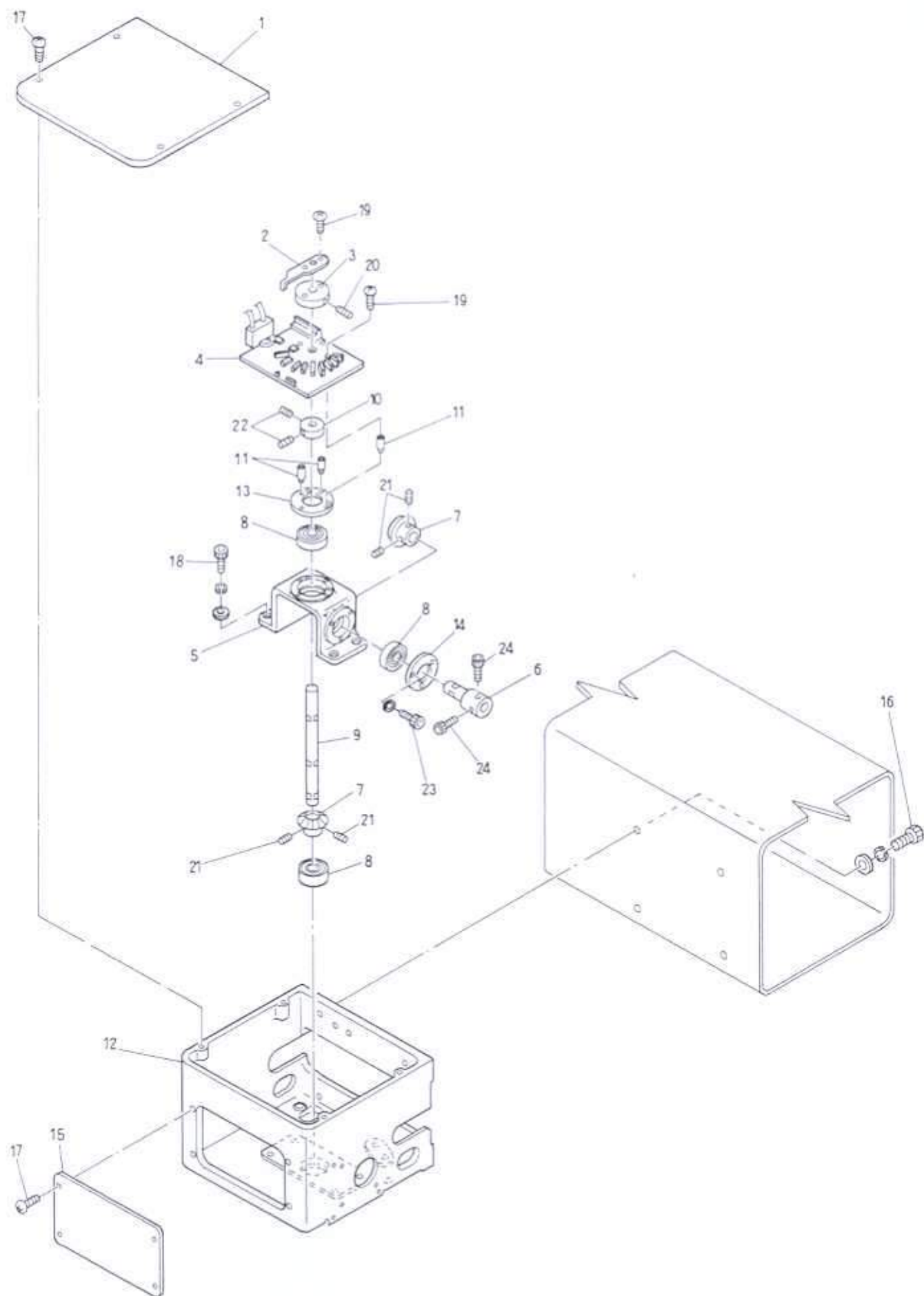
[illegible]





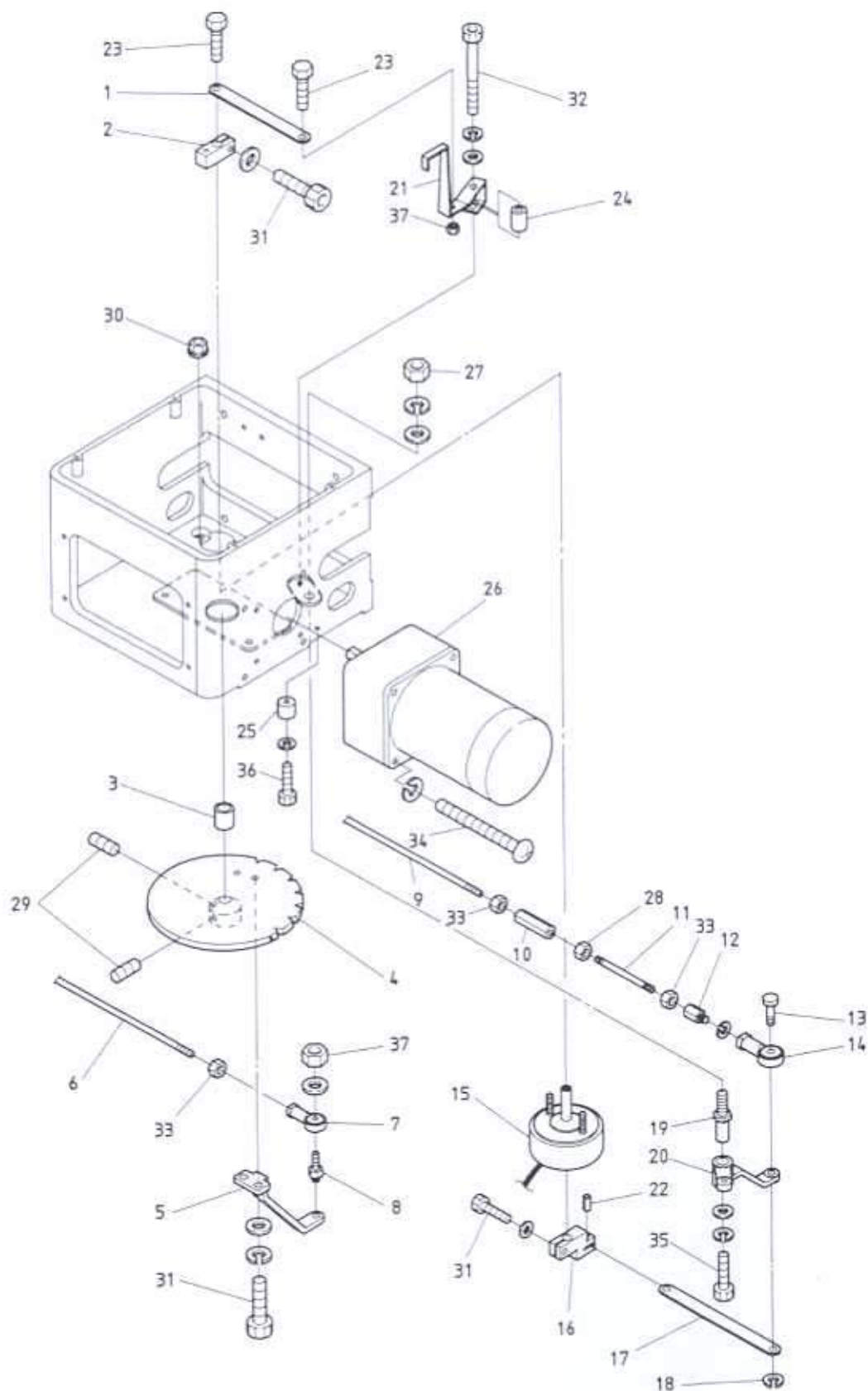
⑩ Drive mechanism II

[illegible]



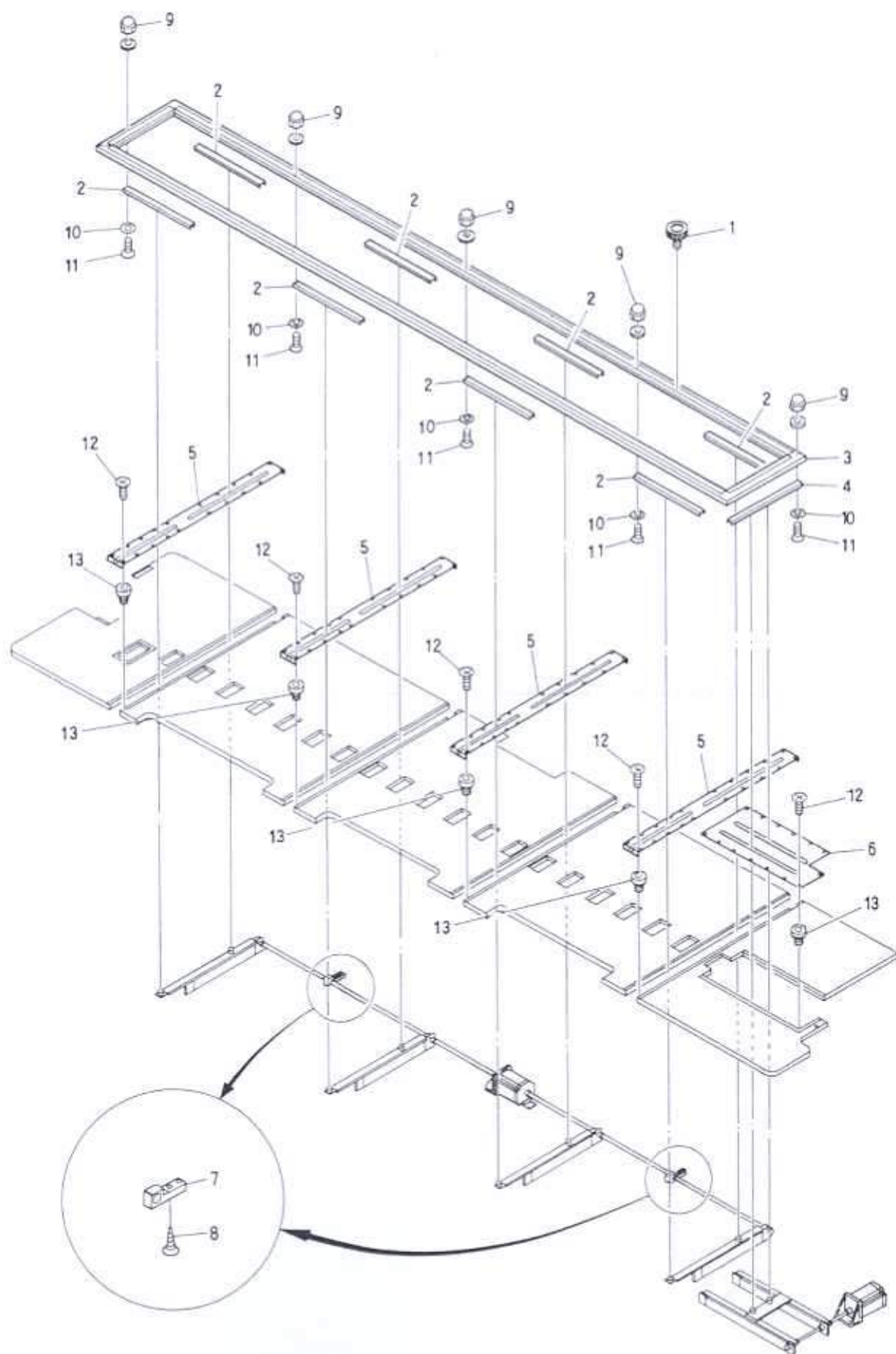
⑪ Color change mechanism I

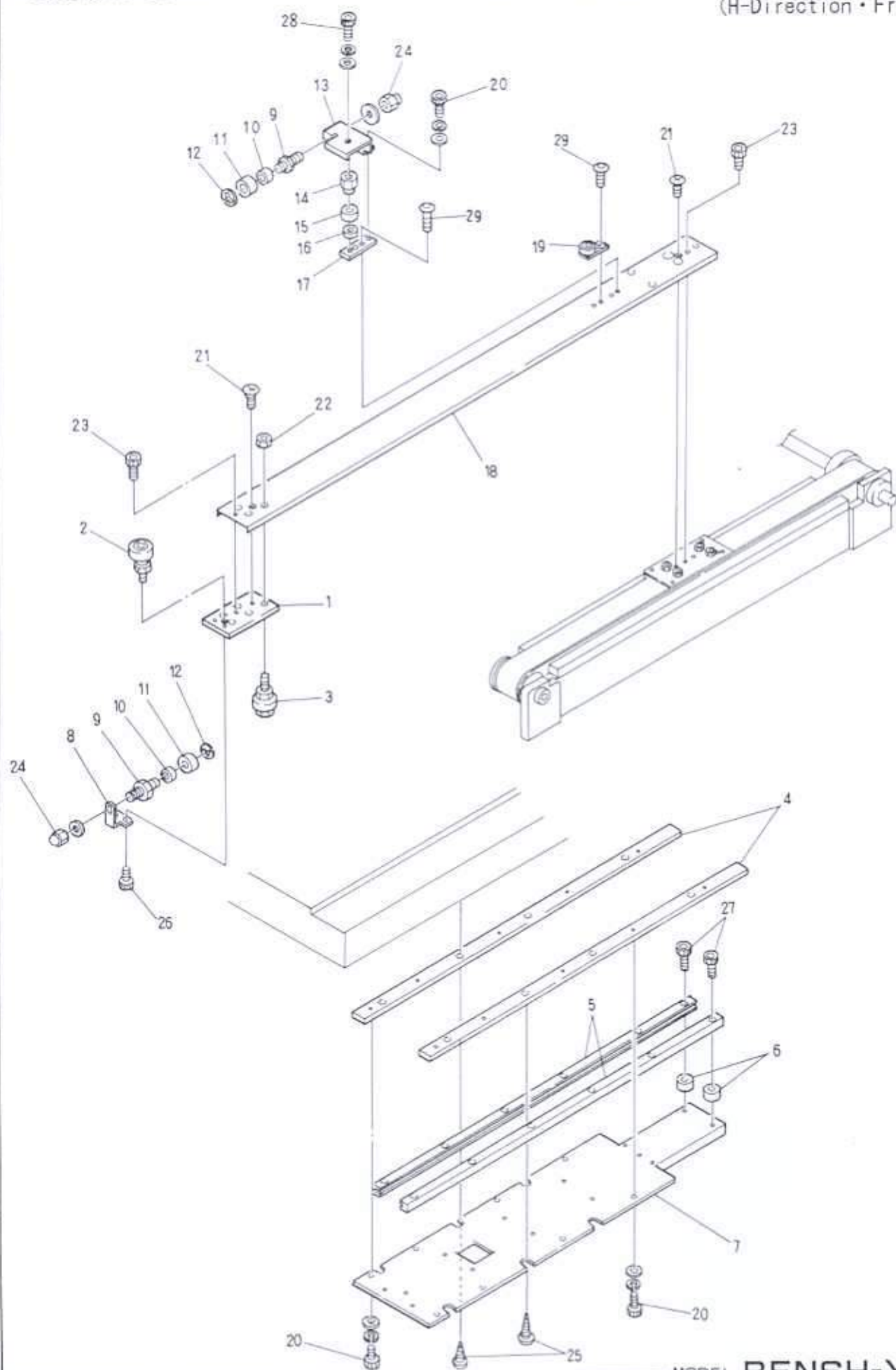
[illegible]

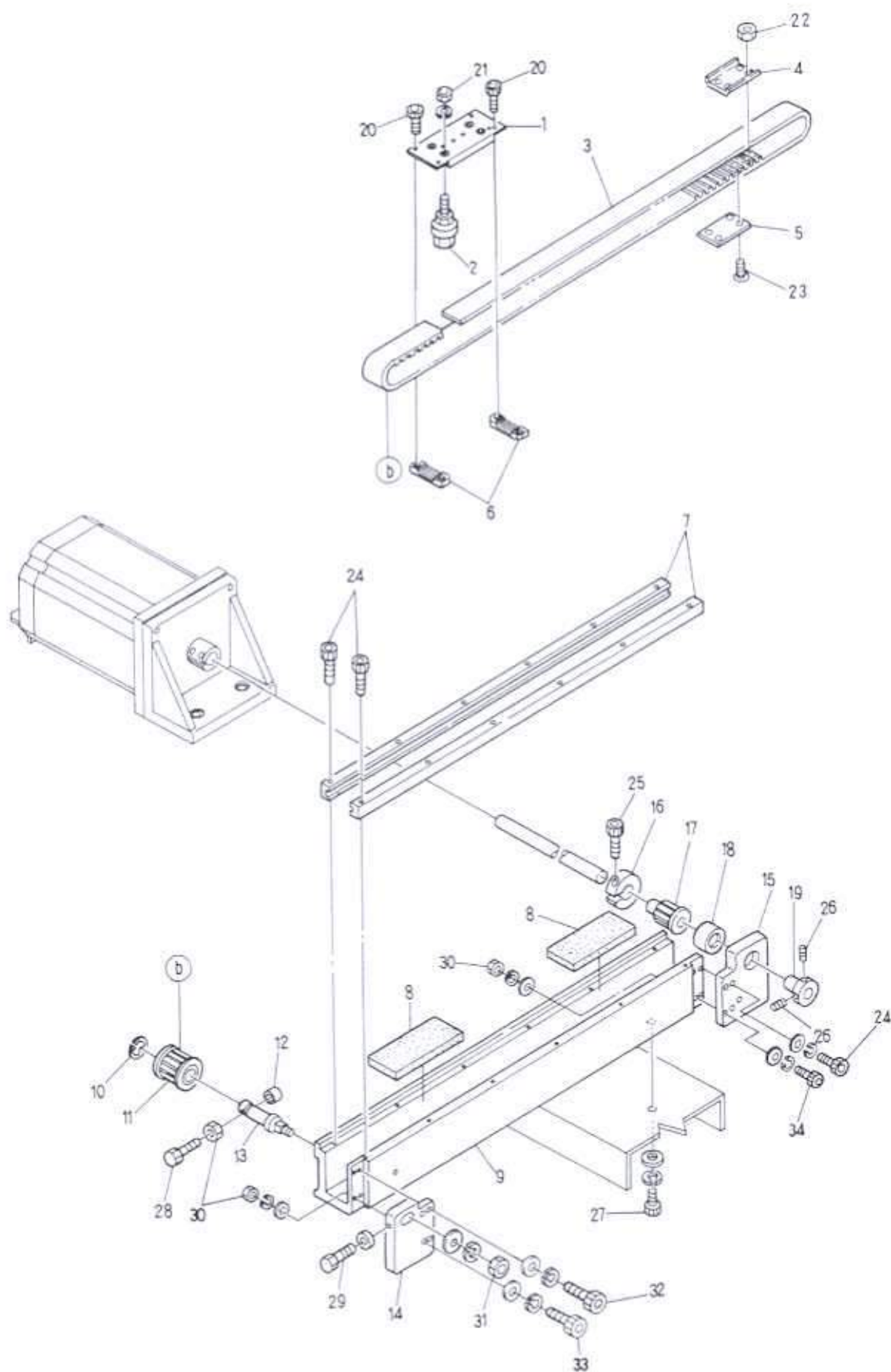


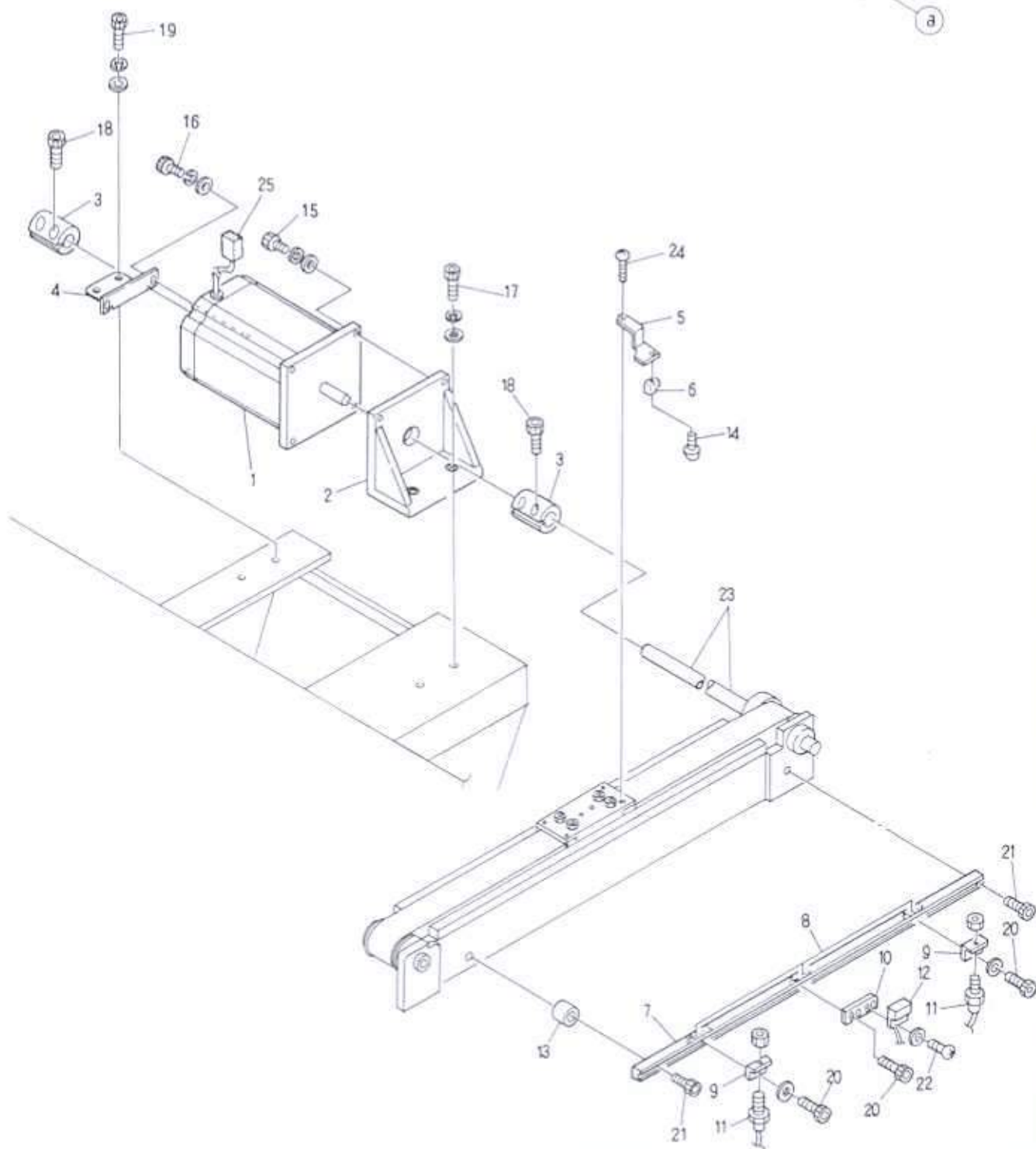
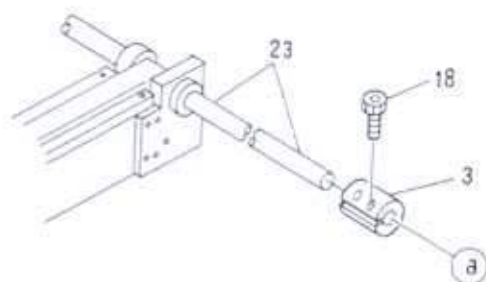
⑬ Color change mechanism II

[illegible]



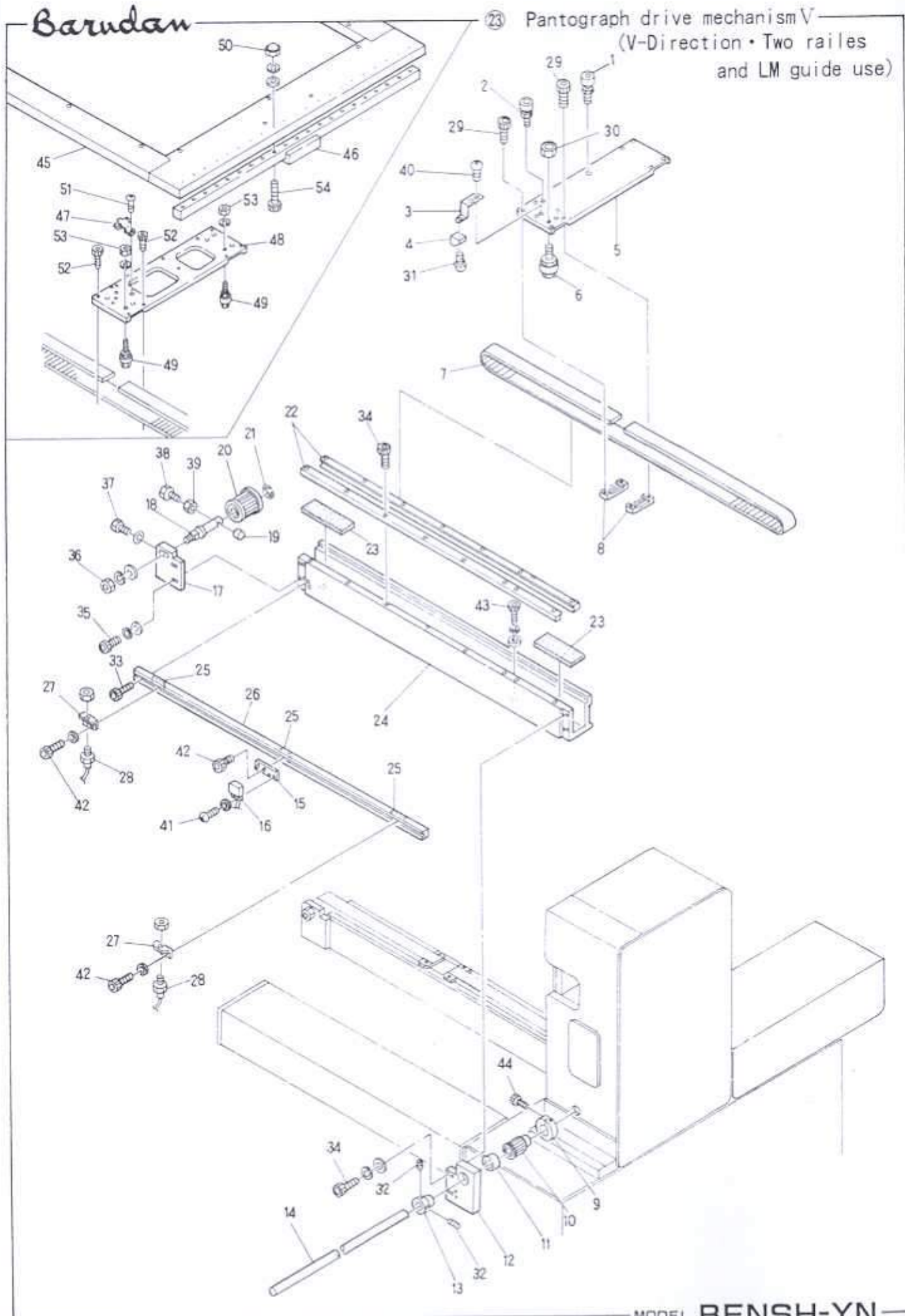






Barudan

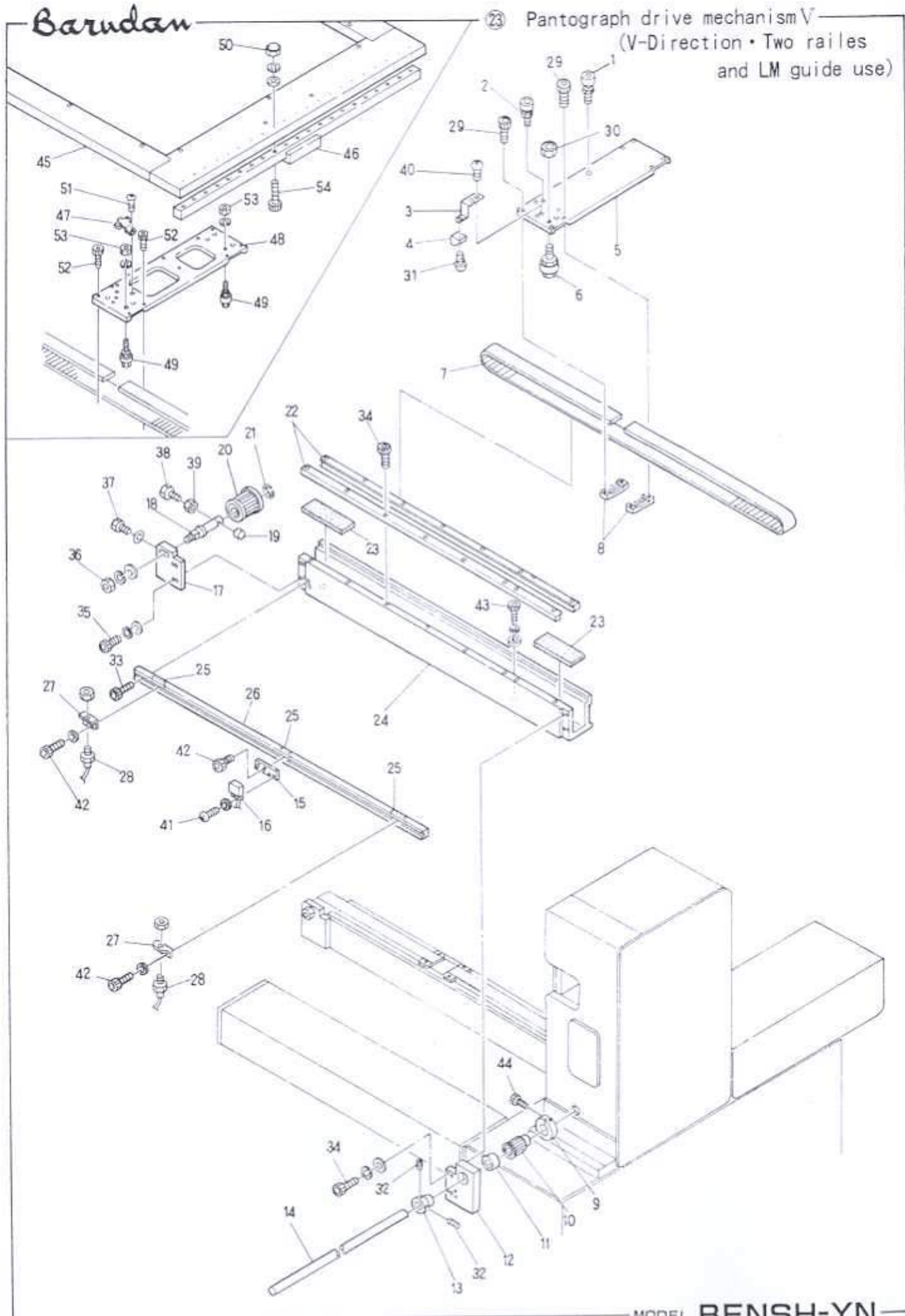
②③ Pantograph drive mechanism V
(V-Direction • Two rails
and LM guide use)



MODEL BENS-HYN

Barudan

23 Pantograph drive mechanism V
(V-Direction • Two rails
and LM guide use)



MODEL BENSH-YN

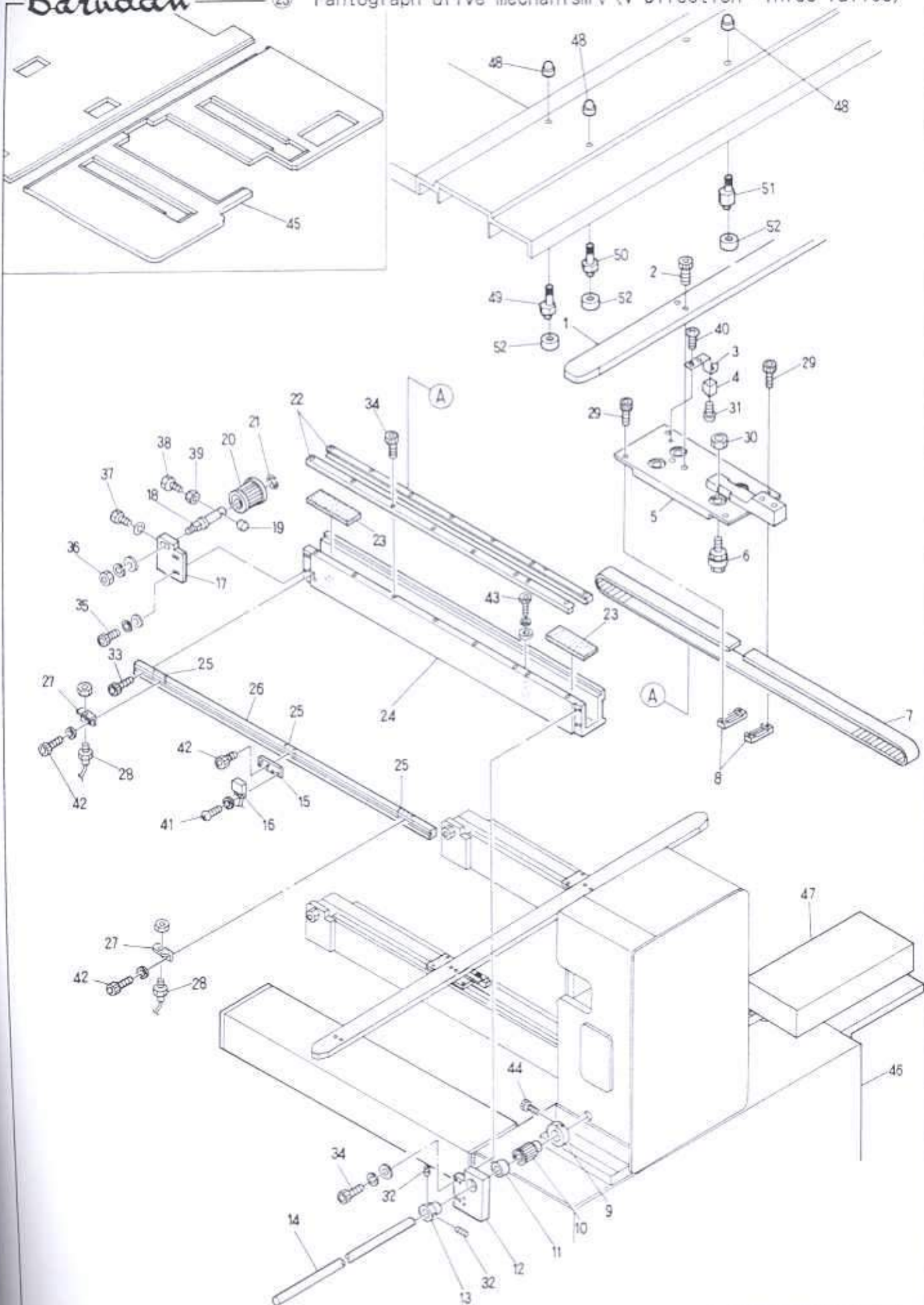
(23) Pantograph drive mechanismV (V-Direction・Two rails and LM guide use)

(※Change the LIST No. by machine type)

[illegible]

Barudan

23 Pantograph drive mechanism V (V-Direction • Three rails)



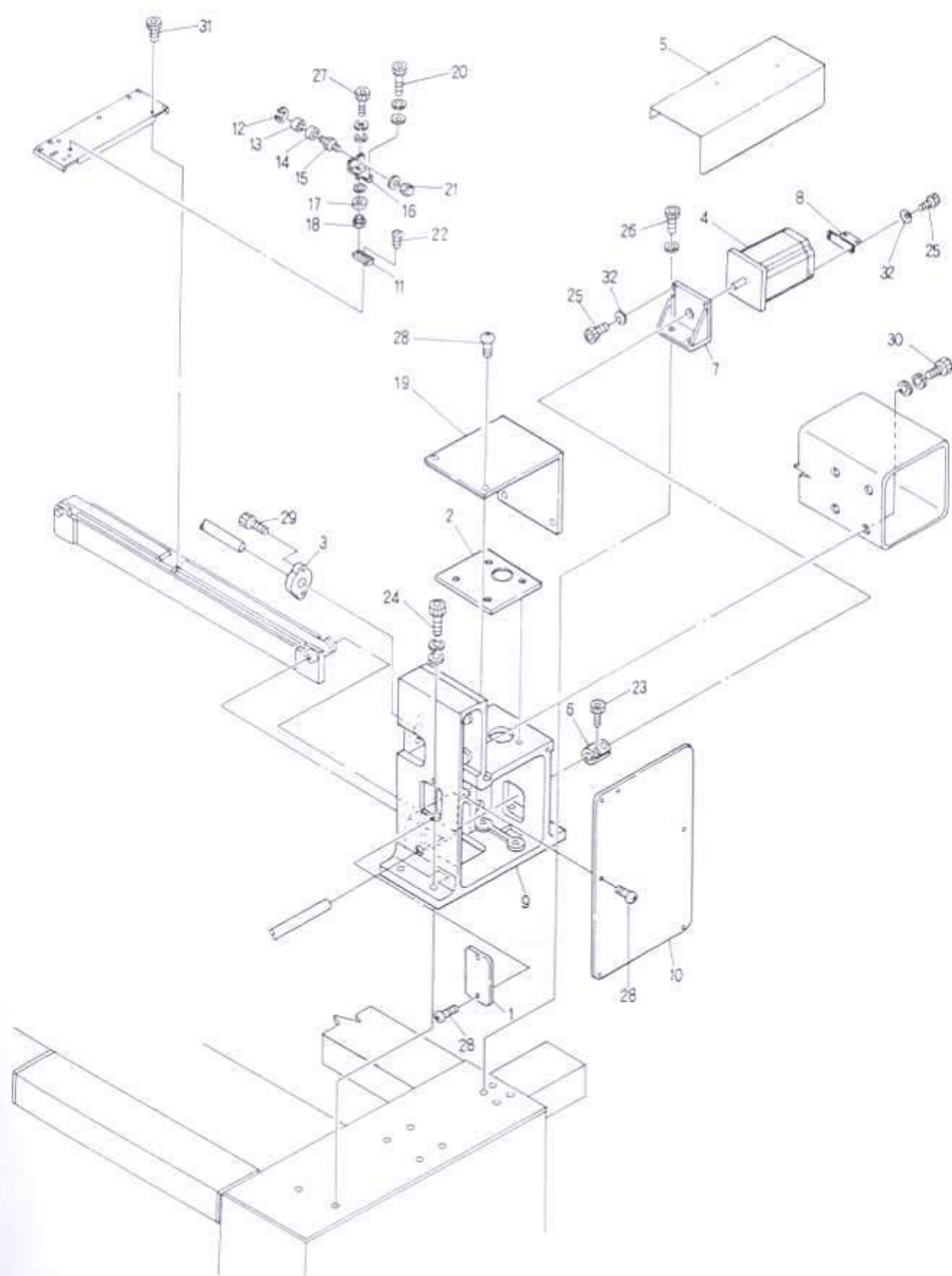
MODEL BENSH-YN

23) Pantograph drive mechanism V (V-Direction • Two rails and LM guide use)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HP483111	Guide bearing pin a'ssy (B)	1	
2	HP483370	Guide bearing pin a'ssy	1	
3	HP451100	V-Pantograph origin point magnet bracket	1	
4	A9052030	Magnet (M-102A-02)	1	
5	HP482892	V-Roller base	1	
6	HP482950	Roller pin a'ssy A	8	
7	A9020098	Timing belt (300S5M2000)	2	
8	HP482940	Timing belt set rack (5M)	4	
9	HH481980	Clamping $\phi 19$	2	
10	HV480040	Pantograph driving pulley (Rear) (S5M)	2	
11	A9011063	Needle bearing (TLA2016)	2	
12	HV480030	H-Guide rear pulley bracket	2	
13	HH481970	Pulse motor connecting shaft collar	2	
14	HV480080	V-Pulse motor connecting shaft (For 3 rails)	1	
15	KN450300	MH-601A Proximity switch fixing bracket	1	
16	A9052031	Magnetic proximity switch (MH-601A)	1	
17	HH482000	H-Guide front pulley bracket	1	
18	HH481991	Timing pulley shaft	2	
19	HH482110	Pulley shaft bolt cap	2	
20	HV480050	Pantograph driving pulley (Front) (S5M)	2	
21	A9012052	E-Ring ($\phi 10$)	2	
22	HP482910	V-Guide rail (L-1060)	4	
23	KN480061	Rail base felt (100×38×6)	4	
24	HP48217G530	V-Guide rail base (Stroke 530)	2	※
25	KU460270	Plate nut (M3)	3	
26	HP45112G530	V-Pantograph origin point rail (For V530)	1	※
27	MT460240	RS-001 Bracket (V side)	2	
28	A9052024	Switch (RS-001)	2	
29		Hex. socket bolt M3×6		
30		Hex. nut M5		
31		Truss screw M3×6		
32		Hex. socket set screw M5×8		
33		Hex. socket bolt M4×8		
34		Hex. socket bolt M4×15		
35		Hex. socket bolt M4×18		
36		Hex. nut M8		
37		Hex. bolt M4×25		
38		Hex. bolt M4×35		
39		Hex. nut M4		
40		Flush screw M4×8 (Undercut)		
41		Truss screw M3×10		
42		Hex. socket bolt M3×8		
43		Hex. socket bolt M8×25		
44		Hex. socket bolt M5×18		
45	IFM1538038045H	Pantograph frame a'ssy (BEMSH-YS-15 450×380/380)	1	※LM guide use

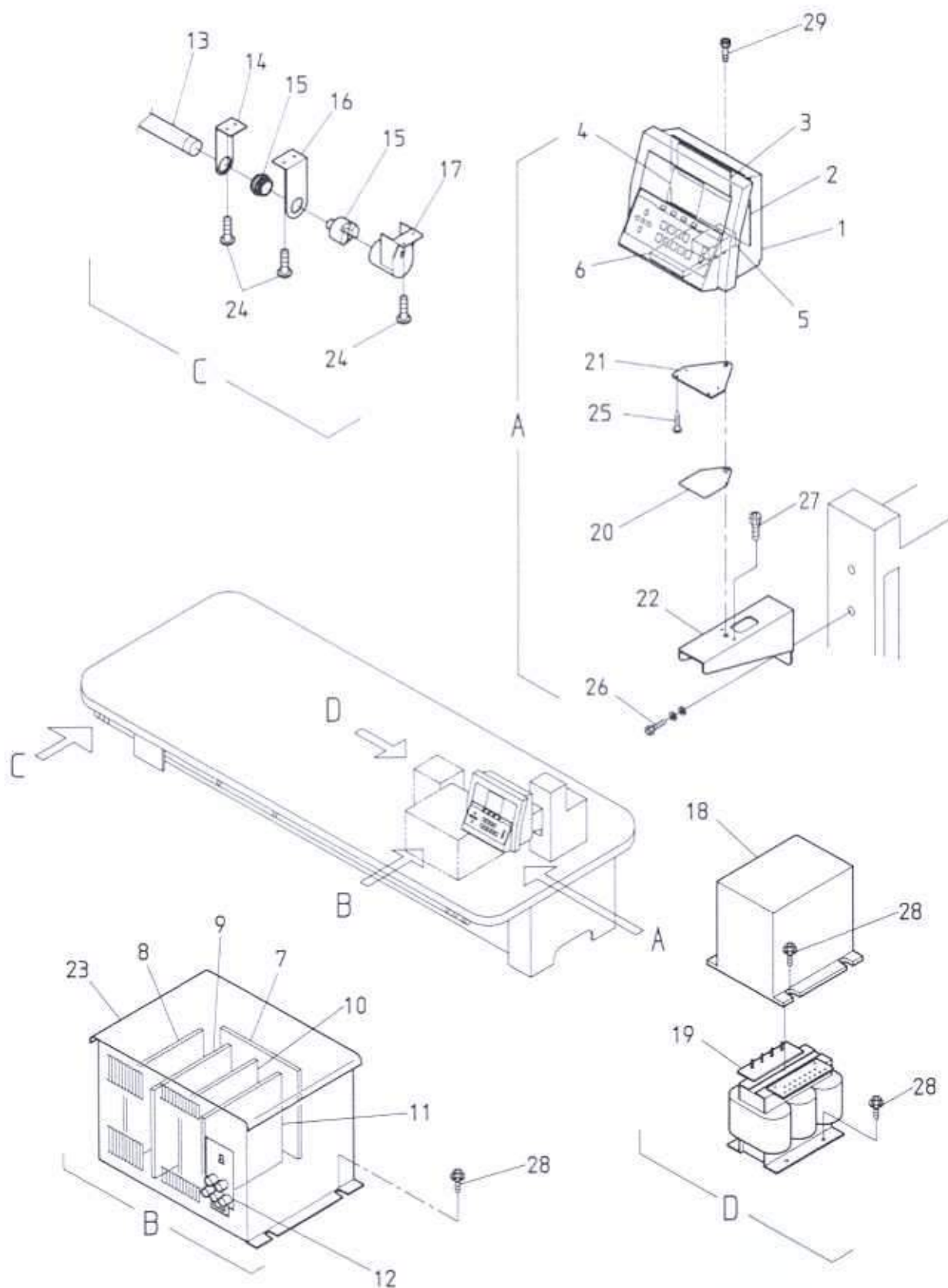
23 Pantograph drive mechanism V (V-Direction · Three rails) (*Change the LIST No. by machine type)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HV480110	V-Slide rail	1	
2		Hex. Socket bolt M5×15		
3	HP451100	V-Pantograph origin point magnet bracket	1	
4	A9052030	Magnet (M-102A-02)	1	
5	HP483341	V Roller base	3	
6	HP482950	Roller pin assy. A	8	
7	A9020098	Timing belt (300S5M2000)	2	
8	HP482940	Timing belt set rack (5M)	4	
9	HH481980	Clamping φ19	2	
10	HV480040	Pantograph driving pulley (Rear) (S5M)	2	
11	A9011063	Needle bearing (TLA2010)	2	
12	HV480030	H-Guide rear pulley bracket	2	
13	HH481970	Pulse motor connecting shaft collar	2	
14	HV480090	V-Pulse motor connecting shaft (V3 rails)	1	
15	KN450300	MH-601A Proximity switch fixing bracket	1	
16	A9052031	Magnetic proximity switch (MH-601A)	1	
17	HH482000	H-Guide front pulley bracket	1	
18	HH481991	Timing pulley shaft	2	
19	HH482110	Pulley shaft bolt cap	2	
20	HV480050	Pantograph driving pulley (Front) (S5M)	2	
21	A9012052	E-Ring (φ10)	2	
22	HP482910	V-Guide rail (L=1060)	4	
23	KN480061	Rail base felt (100×38×6)	4	
24	HP48217G530	V-Guide rail base (Stroke 530)	2	※
25	KU460270	Plate nut (M1)	3	
26	HP45112G530	V-Pantograph origin point rail (For V330)	1	※
27	MT460240	RS-001 Bracket (V side)	2	
28	A9052024	Switch (RS-001)	2	
29		Hex. socket bolt M3×6		
30		Hex. nut M5		
31		Truss screw M3×6		
32		Hex. socket set screw M3×8		
33		Hex. socket bolt M4×8		
34		Hex. socket bolt M4×15		
35		Hex. socket bolt M4×18		
36		Hex. nut M8		
37		Hex. bolt M4×25		
38		Hex. bolt M4×35		
39		Hex. nut M4		
40		Flush screw M3×8 (Undercut)		
41		Truss screw M1×10		
42		Hex. socket bolt M3×8		
43		Hex. socket bolt M8×25		
44		Hex. socket bolt M5×18		
45	IDHV2030035060H	Table (For V3 rails)	1	



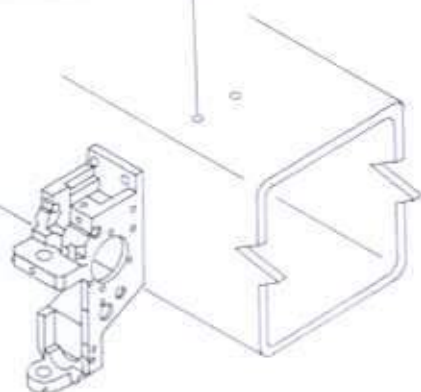
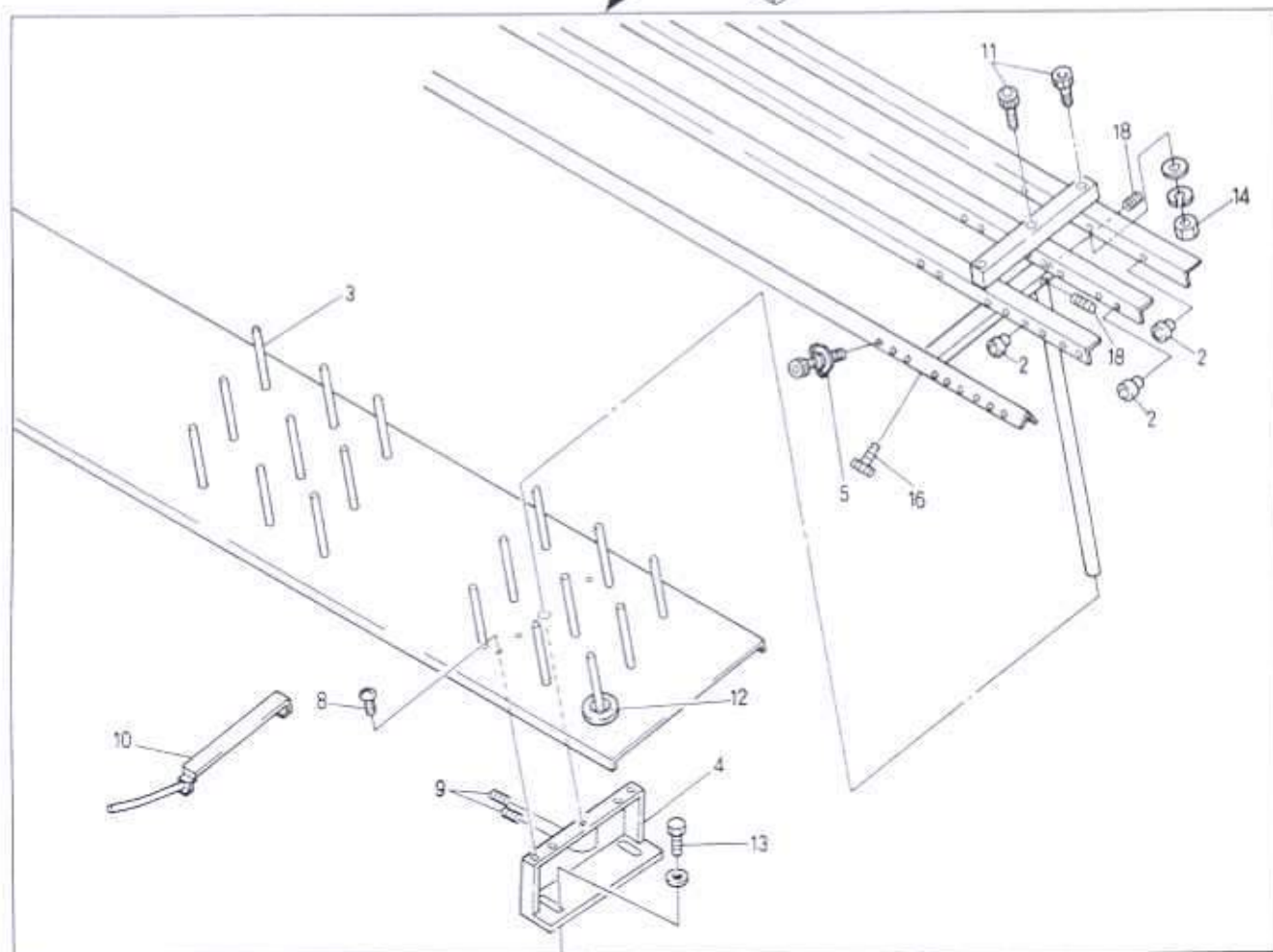
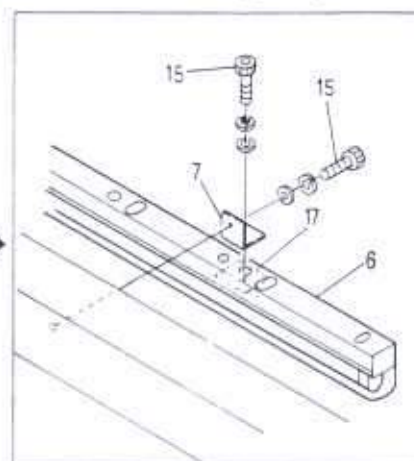
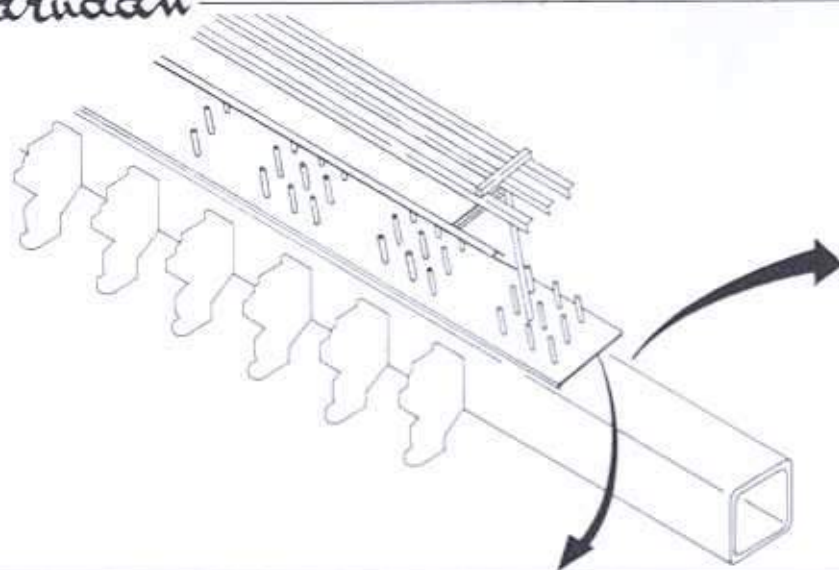
②④ Pantograph drive mechanismVI (V-Direction・Drive)

[illegible]



②⑤ Control system

[illegible]

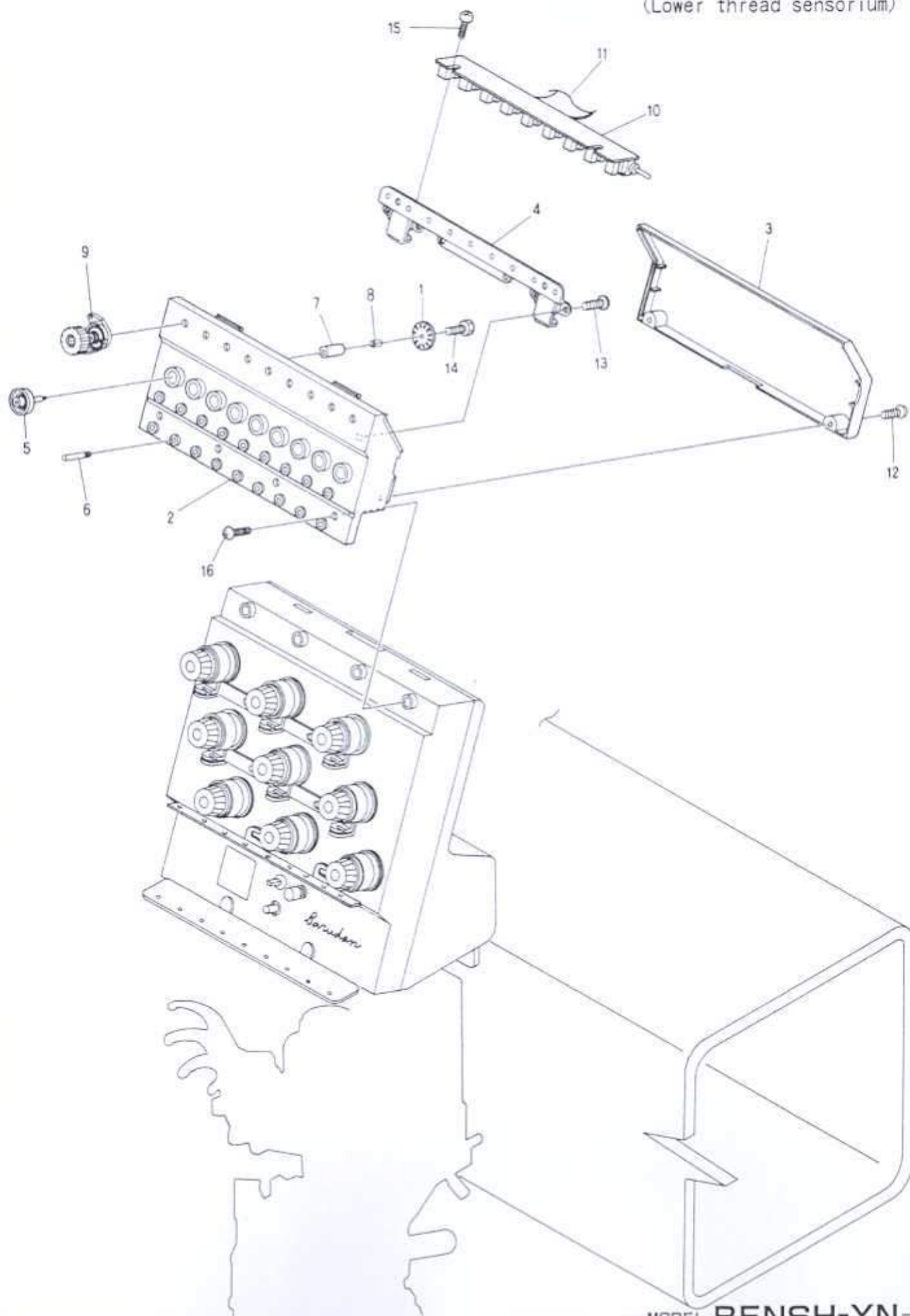


(※Change the LIST No. by machine type)

— 55 —

Barudan

② Thread guide mechanism
(Lower thread sensorium)



MODEL BENS-HYN

I N D E X

L I S T №	PAGE №	ITEM	L I S T №	PAGE №	ITEM
1AHB2024053045G	3	4	A 9 0 1 2 2 1 3	3	5
1AHV2030035060H	4 9	4 6	A 9 0 1 2 2 1 9	4 5	1 3
1BHY3018560045H	3	1 7	A 9 0 1 2 3 6 7	1 7	2 7
1CHV2030035060H	4 9	4 5	A 9 0 1 2 3 6 8	1 7	1 7
1EHY3018560045H	3	2 6	A 9 0 1 3 0 4 5	7	2 6
1FM1538038045H	4 7	4 5	A 9 0 1 3 0 4 5	1 6	2 5
1KHY3018560045H	3	1	A 9 0 1 4 0 2 2	5	1 8
1SHB20240530J	3	7	A 9 0 1 4 0 5 1	2 1	1 4
A 9 0 1 0 0 0 1	3 5	8	A 9 0 1 4 0 5 5	1 5	1 6
A 9 0 1 0 0 1 7	1 1	1 5	A 9 0 2 0 0 9 8	4 3	3
A 9 0 1 0 1 0 0	9	4	A 9 0 2 0 0 9 8	4 7	7
A 9 0 1 0 1 0 1	9	3	A 9 0 2 0 0 9 8	4 9	7
A 9 0 1 0 1 0 2	9	5	A 9 0 2 0 1 3 1	3 3	1 9
A 9 0 1 1 0 2 1	1 3	5	A 9 0 2 0 1 7 1	3 1	1 3
A 9 0 1 1 0 2 1	1 5	1 9	A 9 0 5 2 0 0 5	2 9	1 4
A 9 0 1 1 0 2 2	1 5	2 0	A 9 0 5 2 0 2 4	4 5	1 1
A 9 0 1 1 0 2 3	1 5	1 8	A 9 0 5 2 0 2 4	4 7	2 8
A 9 0 1 1 0 3 5	3 3	3	A 9 0 5 2 0 2 4	4 9	2 8
A 9 0 1 1 0 4 0	3 1	4	A 9 0 5 2 0 2 8	2 5	1 0
A 9 0 1 1 0 4 0	3 3	1 5	A 9 0 5 2 0 3 0	4 5	6
A 9 0 1 1 0 6 3	4 3	1 8	A 9 0 5 2 0 3 0	4 7	4
A 9 0 1 1 0 6 3	4 7	1 1	A 9 0 5 2 0 3 0	4 9	4
A 9 0 1 1 0 6 3	4 9	1 1	A 9 0 5 2 0 3 1	4 5	1 2
A 9 0 1 1 1 1 1	5	2 7	A 9 0 5 2 0 3 1	4 7	1 6
A 9 0 1 1 1 1 1	9	2	A 9 0 5 2 0 3 1	4 9	1 6
A 9 0 1 1 1 5 2	1 3	4	A 9 0 5 6 0 1 0	7	9
A 9 0 1 2 0 0 1	3 7	7	A 9 0 5 6 0 1 1	3 7	1 5
A 9 0 1 2 0 0 2	2 9	3 0	A 9 0 5 6 0 1 3	2 7	1 9
A 9 0 1 2 0 0 2	3 7	1 4	A 9 0 5 6 0 1 8	2 5	1
A 9 0 1 2 0 5 1	2 1	1 5	A 9 0 5 6 0 2 0	2 1	1
A 9 0 1 2 0 5 2	4 3	1 0	A 9 0 6 5 0 2 8	2 9	2 7
A 9 0 1 2 0 5 2	4 7	2 1	E B Y 0 1 1 1 0	2 3	1 2
A 9 0 1 2 0 5 2	4 9	2 1	E B Y 0 1 1 2 0	3 5	4
A 9 0 1 2 0 5 3	1 5	3 3	E B Y 0 1 2 4 0	5 3	3
A 9 0 1 2 0 5 5	3 7	1 8	E B Y 0 1 2 5 0	5 3	2
A 9 0 1 2 0 5 6	2 7	1 2	E B Y 0 1 2 6 0	5 3	4
A 9 0 1 2 0 6 8	3 3	1 0	E B Y 0 1 2 7 0	5 3	5
A 9 0 1 2 1 2 6	4 1	1 0	E B Y 0 1 2 9 0	5 3	1 2
A 9 0 1 2 1 2 6	5 1	1 4	E B Y 0 1 3 0 0	5 3	1 0
A 9 0 1 2 1 2 7	4 1	1 2	E B Y 0 1 3 2 0	5 3	1 1
A 9 0 1 2 1 2 7	5 1	1 2	E B Y 0 1 3 3 0	5 3	7
A 9 0 1 2 1 4 3	3 7	2 2	E B Y 0 1 3 4 0	5 3	9
A 9 0 1 2 1 5 4	5	3	E B Y 0 1 3 5 0	5 3	6
A 9 0 1 2 1 6 3	1 1	1 6	E B Y 1 0 3 1 0	5 3	8
A 9 0 1 2 1 6 4	1 7	1 0	H B 1 3 0 0 2 0	3 3	2

I N D E X

L I S T No	PAGE No	ITEM	L I S T No	PAGE No	ITEM
HB 1 3 0 0 2 0	5 1	2	HB 2 4 0 1 5 1	1 3	2
HB 1 3 0 0 3 0	3 3	2	HB 2 4 0 1 6 1	1 3	1 3
HB 1 3 0 0 3 0	5 1	2	HB 2 4 0 2 0 0	2 3	2 0
HB 1 3 0 0 4 0	3	3 3	HB 2 4 0 2 4 0	2 3	2 4
HB13008045	3	3 4	HB 2 4 0 3 0 0	2 3	1 3
HB 2 1 0 0 1 0	1 1	1 7	HB 3 1 0 0 3 0	5 1	1 0
HB 2 1 0 2 3 0	5	5	HB 3 1 0 0 7 0	3 1	7
HB 2 1 0 2 4 0	5	5	HB 3 1 0 0 7 0	3 3	1 6
HB 2 2 0 0 1 0	5	8	HB 3 1 0 0 8 0	3 3	9
HB 2 3 0 0 1 1	1 1	1 3	HB 3 1 0 1 0 0	3 3	7
HB 2 3 0 0 2 0	1 1	1 1	HB 3 1 0 1 1 0	3 1	1
HB 2 3 0 0 3 0	1 1	1 4	HB 3 1 0 1 2 0	3 3	1 4
HB 2 3 0 0 4 0	1 1	1 9	HB 3 1 0 1 4 0	3 1	1 1
HB 2 3 0 0 5 0	1 1	1 0	HB 3 1 0 1 6 0	3 3	6
HB 2 3 0 0 7 0	1 1	8	HB 3 1 0 1 6 0	5 1	1
HB 2 3 0 0 8 0	1 1	7	HB 3 1 0 1 8 0	3 3	2 0
HB 2 3 0 1 1 1	1 1	5	HB 3 1 0 1 8 0	5 1	1 9
HB 2 3 0 1 6 0	1 7	1 1	HB 3 1 0 2 8 0	3 1	1 5
HB 2 3 0 1 8 0	1 5	2 4	HB 3 2 0 0 3 0	9	1
HB 2 3 0 1 9 0	1 5	3	HB 3 2 0 0 5 0	9	1
HB 2 3 0 2 2 0	1 9	1 4	HB 3 3 0 0 1 0	3 5	1 2
HB 2 3 0 2 4 1	1 9	9	HB 3 3 0 0 2 0	3 5	5
HB 2 3 0 2 6 1	1 9	8	HB 3 3 0 0 4 0	3 7	5
HB 2 3 0 2 7 1	1 9	7	HB 3 3 0 0 5 0	3 7	2 0
HB 2 3 0 2 8 1	1 9	1 2	HB 3 3 0 0 6 0	3 7	1 6
HB 2 3 0 3 4 0	1 1	1 2	HB 3 3 0 0 7 0	3 7	2
HB 2 3 0 3 5 0	1 9	1 0	HB 3 3 0 0 8 0	3 7	1 7
HB 2 3 0 3 6 0	1 9	1 1	HB 3 3 0 0 9 0	3 7	1
HB 2 3 0 4 9 3	1 1	9	HB 3 3 0 1 0 1	3 7	2 1
HB 2 3 0 6 2 0	1 1	4	HB 3 3 0 1 1 1	3 5	9
HB 2 3 0 6 5 0	1 1	3 0	HB 3 3 0 1 2 0	3 7	3
HB 2 3 0 6 9 1	1 1	3 2	HB 3 3 0 1 3 0	3 5	7
HB 2 3 0 7 0 1	1 9	6	HB 3 3 0 1 4 0	3 5	1
HB 2 3 0 7 1 0	1 1	3 3	HB 3 3 0 1 5 0	3 5	1 5
HB 2 3 0 7 5 0	1 3	1 2	HB 3 3 0 1 7 0	3 5	6
HB 2 3 0 8 0 0	1 1	2 0	HB 3 3 0 1 9 0	3 5	1 4
HB 2 4 0 0 1 1	2 1	2	HB 3 3 0 2 0 0	3 5	1 3
HB 2 4 0 0 2 0	2 1	4	HB 3 3 0 2 1 1	3 5	1 1
HB 2 4 0 0 3 0	2 1	5	HB 3 3 0 2 2 1	3 5	1 0
HB 2 4 0 0 4 1	2 1	3	HB 7 1 0 0 1 0	5 5	7
HB 2 4 0 0 6 0	2 1	9	HB 7 1 0 0 2 0	5 5	1 7
HB 2 4 0 0 7 0	2 1	1 3	HH 1 4 0 2 6 0	3	1 0
HB 2 4 0 0 8 0	2 1	1 1	HH 1 4 0 9 4 0	3	3 6
HB 2 4 0 0 9 0	2 1	1 0	HH 2 2 0 5 7 0	5	1 3
HB 2 4 0 1 1 0	2 1	1 2	HH 3 2 0 5 5 0	3 1	1 0

I N D E X

L I S T №	PAGE №	ITEM	L I S T №	PAGE №	ITEM
HH 3 3 0 6 7 0	3 7	2 5	HP 2 2 0 7 3 0	5	1 0
HH 3 3 0 7 6 0	2 9	2 3	HP 2 3 1 3 7 0	1 7	2 6
HH 3 3 0 7 7 0	3 7	1 0	HP 2 4 1 4 3 0	5 5	5
HH 3 3 0 8 1 0	3 7	2 6	HP 2 5 0 7 6 3	5	1
HH 4 8 1 9 3 1	4 5	3	HP 2 5 0 7 6 5	7	2 5
HH 4 8 1 9 3 1	5 1	6	HP 2 7 1 7 0 0	2 9	2 0
HH 4 8 1 9 7 0	9	6	HP 2 7 2 0 0 2	7	1 6
HH 4 8 1 9 7 0	4 3	1 9	HP 2 7 2 5 5 0	7	1
HH 4 8 1 9 7 0	4 7	1 3	HP 2 7 2 5 6 0	7	2
HH 4 8 1 9 7 0	4 9	1 3	HP 2 7 2 5 7 0	7	8
HH 4 8 1 9 8 0	4 3	1 6	HP 3 1 0 1 5 0	3 3	8
HH 4 8 1 9 8 0	4 7	9	HP 3 1 0 2 2 0	3 1	1 7
HH 4 8 1 9 8 0	4 9	9	HP 3 2 1 0 8 2	5	1 6
HH 4 8 1 9 9 1	4 3	1 3	HP 3 2 1 0 9 0	5	1 7
HH 4 8 1 9 9 1	4 7	1 8	HP 3 2 1 1 0 0	3 3	4
HH 4 8 1 9 9 1	4 9	1 8	HP 3 2 1 1 1 0	3	2 8
HH 4 8 2 0 0 0	4 3	1 4	HP 3 2 1 1 4 0	5 1	3
HH 4 8 2 0 0 0	4 7	1 7	HP 3 2 1 7 1 0	9	7
HH 4 8 2 0 0 0	4 9	1 7	HP 3 2 1 7 2 0	9	8
HH 4 8 2 0 3 1	4 3	4	HP 3 3 1 5 6 0	3 7	1 3
HH 4 8 2 0 4 1	4 3	5	HP 3 3 1 6 1 0	3 7	1 2
HH48209G45	4 3	9	HP 3 3 1 6 6 0	3 7	8
HH 4 8 2 1 1 0	4 3	1 2	HP 3 3 1 7 0 0	3 7	2 3
HH 4 8 2 1 1 0	4 7	1 9	HP 3 3 1 9 2 2	9	1 0
HH 4 8 2 1 1 0	4 9	1 9	HP 3 3 1 9 5 0	3 7	2 4
HK 2 2 0 6 8 1	5	9	HP 4 5 1 0 8 0	4 5	5
HP 1 2 0 0 2 0	3	3	HP 4 5 1 1 0 0	4 7	3
HP 1 2 0 0 3 0	3	3 1	HP 4 5 1 1 0 0	4 9	3
HP 1 3 0 0 2 1	3	2 5	HP45111G45	4 5	7
HP 1 4 0 0 9 0	3	1 9	HP45112G530	4 7	2 6
HP14010085	3	1 8	HP45112G530	4 9	2 6
HP 1 4 0 1 1 1	3	8	HP 4 6 0 1 2 1	4 1	8
HP 1 4 0 1 2 0	3	1 4	HP 4 6 0 1 6 0	4 1	1 1
HP 1 4 0 1 7 0	3	2 1	HP 4 6 0 1 6 0	5 1	1 3
HP 1 4 0 4 9 0	3	1 2	HP 4 6 0 1 7 0	4 1	9
HP 1 4 0 8 4 1	3	1 1	HP 4 6 0 1 7 0	5 1	1 5
HP 1 4 1 0 8 0	3	1 5	HP48217G530	4 7	2 4
HP 1 4 1 0 9 0	3	2 0	HP48217G530	4 9	2 4
HP 1 4 1 4 5 0	3	9	HP 4 8 2 2 5 0	4 1	1 3
HP 2 1 0 3 4 1	5	1 5	HP 4 8 2 2 6 0	4 1	1 6
HP 2 1 1 0 5 0	5	1 5	HP 4 8 2 2 7 0	4 1	1 4
HP 2 2 0 6 8 0	5	9	HP 4 8 2 2 8 0	4 1	1 7
HP 2 2 0 7 0 1	5	1 1	HP 4 8 2 2 9 0	5 1	1 7
HP 2 2 0 7 1 2	5	4	HP 4 8 2 5 6 0	5 1	1 8
HP 2 2 0 7 2 0	5	1 0	HP 4 8 2 5 7 0	5 1	1 1

I N D E X

L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
HP 4 8 2 5 8 0	5 1	1 6	HT 2 3 0 1 8 0	1 5	2 2
HP 4 8 2 5 9 0	4 1	1 5	HT 2 3 0 2 0 0	1 7	1 3
HP48281A45	4 1	7	HT 2 3 0 2 1 0	1 1	3 1
HP48282045	4 1	4	HT 2 3 0 2 2 0	2 1	7
HP 4 8 2 8 7 1	4 3	1	HT 2 3 0 2 5 1	1 5	7
HP 4 8 2 8 8 1	4 1	1	HT 2 3 0 2 6 2	1 5	3 4
HP 4 8 2 8 9 2	4 7	5	HT 2 3 0 2 7 0	1 3	1 5
HP48290G45	3 9	5	HT 2 3 0 2 8 0	1 7	2 0
HP 4 8 2 9 1 0	4 1	5	HT 2 3 0 2 9 0	1 7	1 5
HP 4 8 2 9 1 0	4 3	7	HT 2 3 0 3 0 0	1 3	6
HP 4 8 2 9 1 0	4 7	2 2	HT 2 3 0 3 2 0	1 7	2
HP 4 8 2 9 1 0	4 9	2 2	HT 2 3 0 3 3 0	1 5	3 0
HP 4 8 2 9 2 1	4 1	6	HT 2 3 0 3 4 0	1 7	3
HP 4 8 2 9 4 0	4 3	6	HT 2 3 0 3 6 1	2 7	2 3
HP 4 8 2 9 4 0	4 7	8	HT 2 3 0 3 7 0	1 7	4
HP 4 8 2 9 4 0	4 9	8	HT 2 3 0 3 8 0	1 9	4
HP 4 8 2 9 5 0	4 1	3	HT 2 3 0 4 1 0	1 9	1 3
HP 4 8 2 9 5 0	4 3	2	HT 2 3 0 4 2 0	1 9	5
HP 4 8 2 9 5 0	4 7	6	HT 2 3 0 4 5 0	1 7	6
HP 4 8 2 9 5 0	4 9	6	HT 2 3 0 4 6 0	1 7	7
HP 4 8 3 1 1 1	4 7	1	HT 2 3 0 4 7 0	1 7	1 4
HP48313G45	4 1	1 8	HT 2 3 0 4 8 0	1 7	8
HP 4 8 3 3 4 1	4 9	5	HT 2 3 0 4 9 0	1 7	1
HP 4 8 3 3 7 0	4 1	2	HT 2 3 0 5 0 0	1 7	5
HP 4 8 3 3 7 0	4 7	2	HT 2 3 0 5 1 0	1 7	1 2
HP 4 8 3 3 9 1	4 1	1 9	HT 2 3 0 5 2 0	1 7	1 6
HS 4 6 0 1 0 0	4 7	4 7	HT 2 3 0 5 3 0	1 7	1 9
HS 4 8 0 0 2 0	4 8	4 7	HT 2 3 0 5 4 0	1 3	7
HS 4 8 2 9 5 0	4 9	4 7	HT 2 3 0 5 5 0	1 5	2 1
HT 2 3 0 0 1 0	1 1	1	HT 2 3 0 5 6 0	1 7	2 1
HT 2 3 0 0 2 0	1 3	3	HT230570M	1 5	1 4
HT 2 3 0 0 3 0	1 3	8	HT 2 3 0 5 8 0	1 1	1 7
HT 2 3 0 0 4 1	1 5	2 9	HT 2 3 0 5 9 0	1 9	1 5
HT 2 3 0 0 6 2	1 5	1 7	HT 2 3 0 6 0 0	1 9	3
HT 2 3 0 0 7 0	1 3	9	HT 2 3 0 6 1 0	1 9	1
HT 2 3 0 0 8 0	1 3	1 1	HT 2 3 0 6 2 0	2 1	8
HT 2 3 0 0 9 0	1 1	2	HT 2 3 0 6 3 0	2 1	6
HT 2 3 0 0 9 1	1 1	1 8	HT 2 3 0 6 6 0	1 1	1 8
HT 2 3 0 1 0 0	1 1	3	HT 2 3 0 6 7 0	1 5	1 1
HT 2 3 0 1 1 1	1 5	3 2	HT 2 3 0 6 9 0	1 5	1 5
HT 2 3 0 1 2 0	1 5	1 0	HT 2 3 0 7 2 0	1 9	2
HT 2 3 0 1 3 0	1 5	2	HT 2 3 0 7 3 0	1 7	1 8
HT 2 3 0 1 4 1	1 5	8	HT 2 3 0 7 5 0	1 7	2 3
HT 2 3 0 1 5 1	1 5	2 8	HT 2 3 0 7 6 0	1 7	9
HT 2 3 0 1 7 0	1 3	1 0	HT 2 3 0 7 7 0	1 7	2 2

I N D E X

L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
HT 2 3 0 8 1 0	1 5	6	HT 2 7 0 3 5 0	2 7	2 4
HT 2 3 0 8 3 0	2 7	3 5	HT 2 7 0 6 4 0	2 7	2 0
HT 2 4 0 0 0 0	1 3	1	HT 3 3 0 0 0 1	3 7	4
HT 2 4 0 0 1 0	1 3	1 4	HT 7 1 0 0 0 0	5 5	3
HT 2 4 0 0 2 0	2 3	9	HV 3 1 0 0 1 0	5 1	9
HT 2 4 0 0 6 1	2 3	1 0	HV 3 1 0 0 2 0	3 3	1
HT 2 4 0 1 0 0	5 7	1	HV 3 1 0 0 3 0	3	2 7
HT 2 4 0 1 2 0	2 3	1	HV 3 1 0 0 4 0	3 1	9
HT 2 4 0 1 3 0	2 3	2	HV 3 1 0 0 5 0	3 1	1 6
HT 2 4 0 1 4 0	2 3	3	HV 3 1 0 0 6 0	3 3	1 7
HT 2 4 0 1 5 0	2 3	4	HV 3 1 0 0 7 0	3 1	8
HT 2 4 0 1 6 0	2 3	5	HV 3 1 0 0 7 0	3 3	1 8
HT 2 4 0 1 7 0	2 3	6	HV 3 1 0 0 8 0	3 3	1 3
HT 2 4 0 1 8 0	2 3	7	HV 3 1 0 0 9 0	3 3	1 2
HT 2 4 0 2 1 1	2 3	1 5	HV 3 1 0 1 0 0	3 3	1 1
HT 2 4 0 2 2 0	2 3	1 6	HV 3 1 0 1 1 0	3 1	3
HT 2 4 0 2 2 0	2 3	2 2	HV 3 1 0 1 2 0	3 1	1 2
HT 2 4 0 2 3 0	2 3	1 7	HV 3 1 0 1 3 0	5 2	5
HT 2 4 0 2 4 0	2 3	1 9	HV310160	4 9	4 7
HT 2 4 0 2 5 0	5 7	2	HV 3 3 0 0 1 0	5 3	2 0
HT 2 4 0 2 7 0	5 7	3	HV 3 3 0 0 2 0	5 3	2 1
HT 2 4 0 2 8 0	5 7	4	HV 4 8 0 0 1 0	4 5	2
HT 2 4 0 2 9 0	5 7	5	HV 4 8 0 0 1 0	5 1	7
HT 2 4 0 3 0 0	5 7	6	HV 4 8 0 0 2 0	4 5	4
HT 2 4 0 3 1 0	5 7	7	HV 4 8 0 0 2 0	5 1	8
HT 2 4 0 3 3 1	2 3	1 8	HV 4 8 0 0 3 0	4 3	1 5
HT 2 4 0 3 4 0	5 7	9	HV 4 8 0 0 3 0	4 7	1 2
HT 2 4 0 3 9 0	2 3	1 1	HV 4 8 0 0 3 0	4 9	1 2
HT 2 4 0 4 3 0	2 3	2 3	HV 4 8 0 0 4 0	4 3	1 7
HT 2 4 0 4 4 0	2 3	2 5	HV 4 8 0 0 4 0	4 7	1 0
HT 2 4 0 4 6 0	2 3	2 1	HV 4 8 0 0 4 0	4 9	1 0
HT 2 4 0 4 7 0	2 3	2 6	HV 4 8 0 0 5 0	4 3	1 1
HT 2 4 0 5 2 0	2 3	1 4	HV 4 8 0 0 5 0	4 7	2 0
HT 2 7 0 0 0 1	2 7	2	HV 4 8 0 0 5 0	4 9	2 0
HT 2 7 0 0 1 0	2 7	2 2	HV 4 8 0 0 6 0	4 5	1
HT 2 7 0 0 2 1	2 7	5	HV 4 8 0 0 6 0	5 1	4
HT 2 7 0 0 3 0	2 7	1	HV 4 8 0 0 7 0	3 9	7
HT 2 7 0 0 4 0	2 7	4	HV 4 8 0 0 8 0	4 7	1 4
HT 2 7 0 0 6 2	2 7	2 5	HV 4 8 0 0 9 0	4 9	1 4
HT 2 7 0 0 7 0	2 5	3	HV 4 8 0 1 1 0	4 9	1
HT 2 7 0 0 8 0	2 7	1 1	HV48221G530	3 9	6
HT 2 7 0 0 9 0	2 7	1 4	HV 5 1 0 0 1 0	5 3	2 2
HT 2 7 0 1 0 0	2 7	1 0	HV 5 1 0 0 2 0	4 5	2 5
HT 2 7 0 1 1 0	2 5	1 4	HW 4 8 0 0 5 0	4 9	5 1
HT 2 7 0 1 2 0	2 7	9	HW 4 8 0 0 7 0	4 9	5 0

I N D E X

L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
HW 4 8 0 0 8 0	4 9	4 9	K F 5 3 0 1 5 0	5 3	1 7
IFM2024053045G	3 9	3	K F 5 3 0 1 6 0	5 3	1 3
K B 2 7 0 0 1 2	7	6	K F 7 1 0 3 9 0	5 5	1 2
K C 1 4 0 1 2 1	3	2 3	K F 7 3 0 7 9 0	3 9	1
K C 2 7 0 1 0 1	2 7	1 8	K L 2 2 0 1 4 0	5	1 2
K C 2 7 0 2 7 1	2 7	6	K L 2 3 0 1 8 0	1 5	2 5
K C 2 7 0 2 9 2	2 7	7	K L 2 7 0 0 0 0	2 7	8
K C 2 7 0 9 7 0	7	3	K L 2 7 0 0 4 0	2 7	1 3
K C 2 7 0 9 8 0	7	2 4	K L 2 7 0 0 6 0	2 7	1 5
K C 2 7 1 4 4 0	2 9	2	K L 2 7 0 0 7 0	2 7	1 7
K C 3 2 0 8 2 0	3 1	2	K L 2 7 0 0 8 1	2 5	2
K C 3 2 0 8 2 0	3 3	5	K L 2 7 0 0 9 1	2 5	1 1
K C 3 3 0 1 7 0	3 5	3	K L 2 7 0 1 0 1	2 5	5
K C 3 3 0 1 8 0	2 9	3	K L 2 7 0 1 1 0	2 5	8
K C 3 3 0 2 8 0	3 5	2	K L 2 7 0 1 2 0	2 5	7
KC330310300	3 7	6	K L 2 7 0 1 3 0	2 5	6
K C 3 3 0 4 1 0	1 5	5	K L 2 7 0 2 6 0	2 5	9
K C 3 3 0 4 1 0	2 9	2 5	K L 2 7 0 4 4 0	2 5	1 3
K C 3 3 0 4 1 0	3 7	9	K L 2 7 0 4 5 0	2 5	1 2
K C 3 3 0 4 2 0	3 7	1 1	K L 2 7 0 5 2 0	2 7	1 6
K C 5 2 0 0 2 0	5 3	1 8	K N 2 7 0 9 5 1	7	7
K C 5 3 0 2 3 0	5 3	1 6	K N 2 7 0 9 6 0	7	2 3
K C 5 3 0 2 4 0	5 3	1 4	K N 2 7 1 1 9 0	7	2 1
K F 2 2 0 3 0 2	5	6	K N 2 7 1 1 9 0	7	2 1
K F 2 2 0 4 1 0	5	7	K N 2 7 1 2 2 0	7	1 8
K F 2 2 0 4 2 1	5	7	K N 2 7 1 5 2 1	7	1
K F 2 2 0 4 4 0	5	6	K N 2 7 1 5 6 0	7	4
K F 2 2 0 5 1 1	5	1 4	K N 2 7 1 6 1 0	7	1 3
K F 2 2 0 7 8 0	5	8	K N 2 7 1 6 2 0	7	8
K F 2 3 0 2 4 0	1 5	1 3	K N 2 7 1 6 3 0	7	1 0
K F 2 3 0 2 5 0	1 5	1 2	K N 2 7 1 6 4 5	7	1 1
K F 2 3 0 5 0 0	1 1	6	K N 2 7 1 6 7 1	7	1 5
K F 2 3 0 5 3 0	1 7	2 5	K N 2 7 1 7 1 2	2 9	8
K F 2 3 0 5 8 0	2 7	3	K N 2 7 1 7 2 0	2 9	2 4
K F 2 3 0 6 3 0	3 7	1 9	K N 2 7 1 7 3 2	2 9	1 5
K F 2 3 0 6 4 0	7	1 4	K N 2 7 1 7 5 0	2 9	1 1
K F 2 3 0 6 4 0	1 5	4	K N 2 7 1 7 8 1	2 9	1 0
K F 2 3 0 6 6 1	1 5	2 6	K N 2 7 1 8 0 0	2 9	2 9
K F 2 3 0 6 7 0	1 5	2 7	K N 2 7 1 9 8 0	7	2
K F 2 3 0 9 1 0	1 5	9	K N 2 7 1 9 9 0	2 9	9
K F 2 4 0 9 0 0	5 5	2	K N 2 7 2 3 5 0	2 9	1 2
K F 2 5 0 9 0 0	5	2	K N 2 7 2 4 0 0	7	1 2
K F 3 3 0 1 8 0	1 5	2 3	K N 2 7 2 4 0 0	2 5	4
K F 5 3 0 1 1 1	5 3	1 5	K N 2 7 2 4 0 0	2 7	2 1
K F 5 3 0 1 2 0	5 3	1 5	K N 2 7 2 5 4 0	7	1 9

I N D E X

[illegible]