

34 pgs

Barudan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

MODEL **BENSH-YN**

PARTS LIST

Barudan electronic

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TELEX 4573268 BARUNA J

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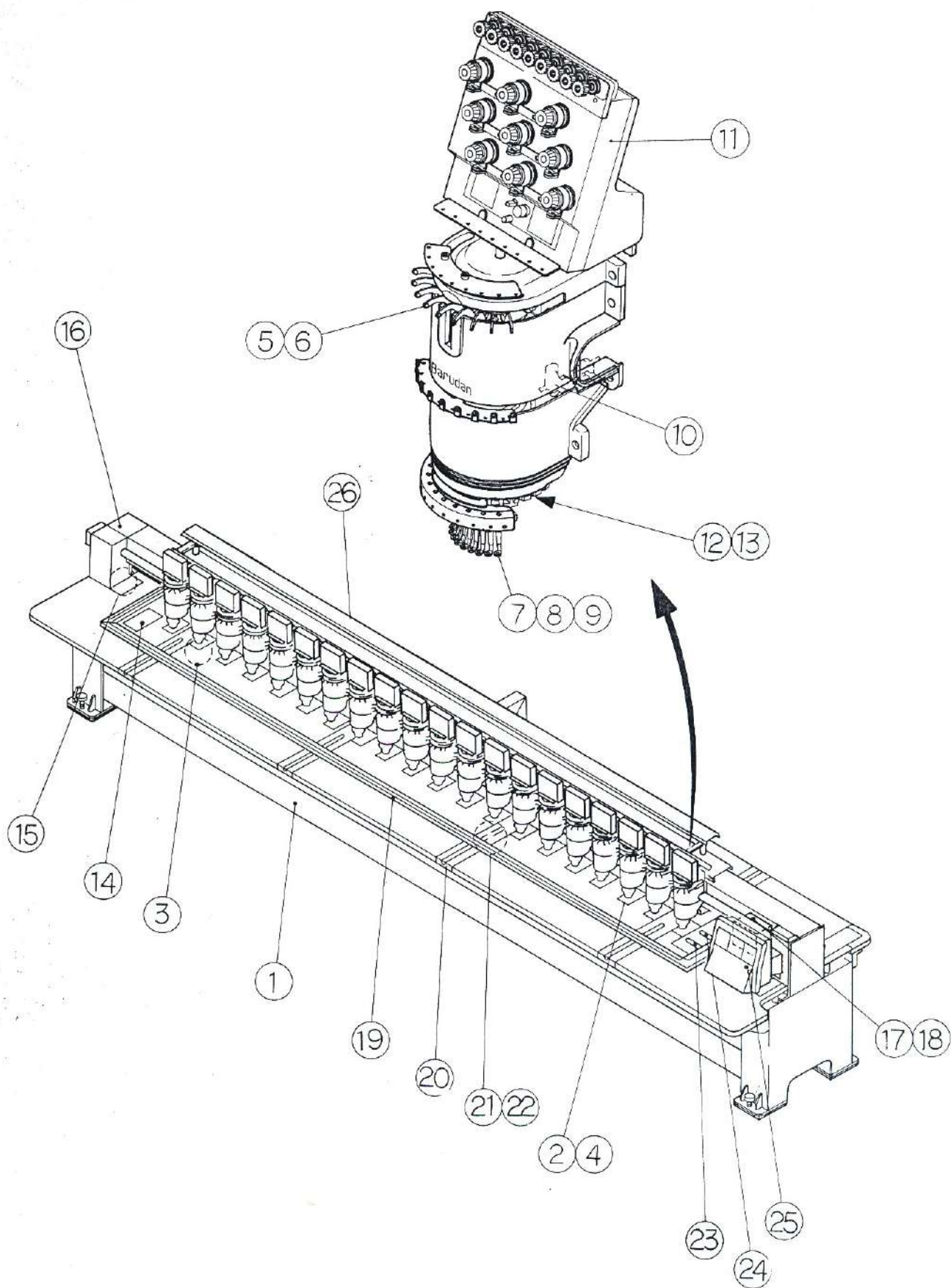
HIGH SPEED AUTOMATIC EMBROIDERY

BENSH-YN

MACHINE PARTS LIST

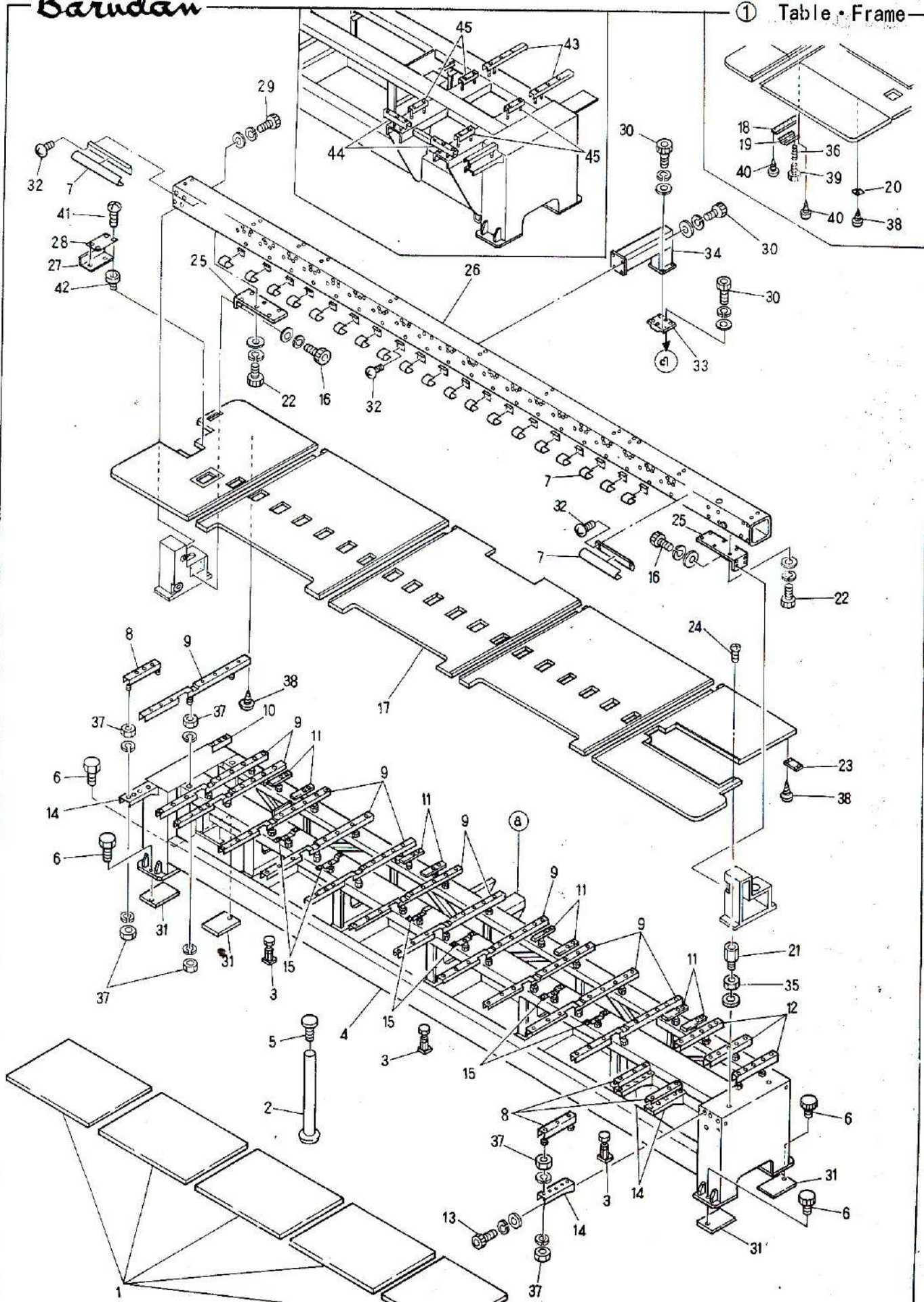
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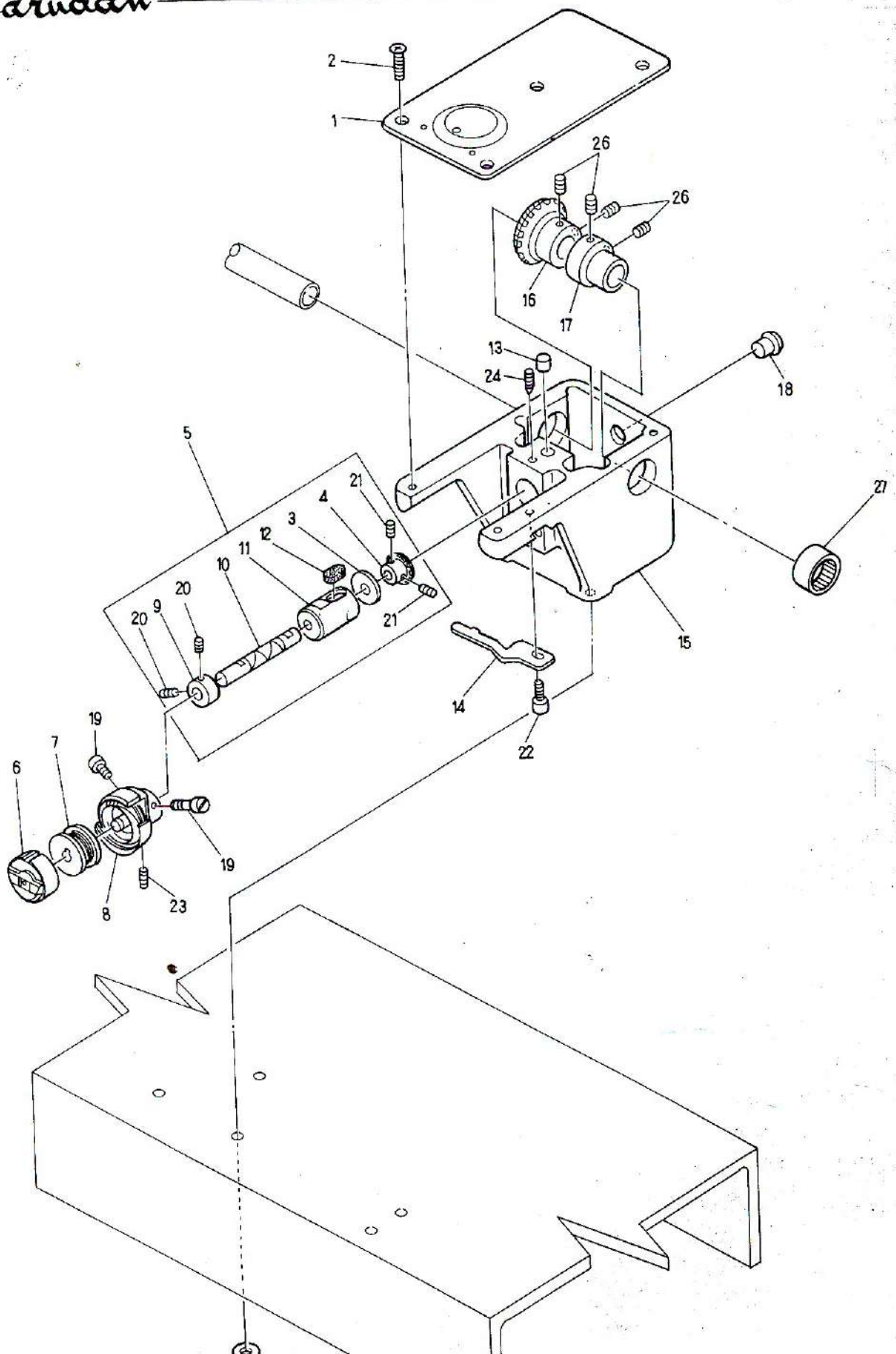
① Table • Frame



1	1AH301830045H	Sheet board	1	※
2	WW140070	Table holder	5	
3	HP120020	M16 Mid jack bolt	6	
4	1AHB2024053045G	Frame	1	※
5	A9012213	Level adjuster (C-1275-A-4)	5	
6		Hex. bolt M20×85	4	
7	1SHB20240530J	Shaft cover morl 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	1BHY3018560045H	Table	1	※
18	HP14010085	Table support (For H Strok 7850)	1	
19	HP140090	Table support		
20	HP141090	Morable 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	1EHY3018560045H	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 pias 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	

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② Bed a' ssy



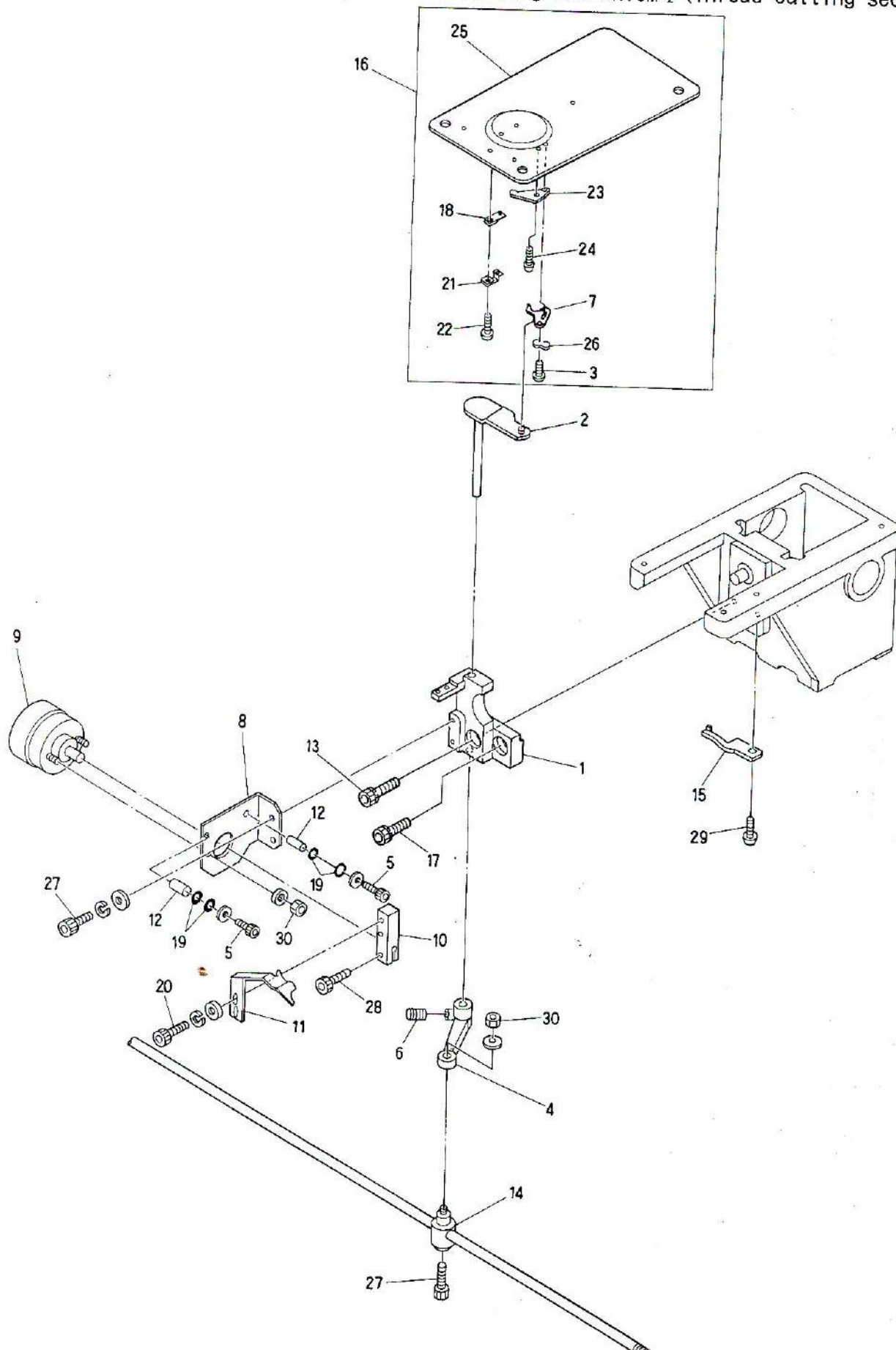
② Bed a' s s y

(H=Head Q'T)

ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	HP 2 5 0 7 6 S	Needle plate	H×1	
2	KF 2 5 0 9 0 0	Needle plate set screw (SM11/64 40×7)	H×3	
3	A 9 0 1 2 1 5 4	Thrust washer TRA-512	H×1	
4	HP 2 2 0 7 1 2	Lower shaft gear (S)	H×1	
5	HB 2 1 0 2 3 0	Lower metal a'ssy (For small bobbin)	H×1	
	HB 2 1 0 2 4 0	Lower metal a'ssy (For middle bobbin)	H×1	
6	KF 2 2 0 4 4 0	Bobbin case (SC35-NS)	H×1	For small bobbin
	KF 2 2 0 3 0 2	Bobbin case BC-DBM(ZZ)-NBL5 Middle bobbin	H×1	For middle bobbin
7	KF 2 2 0 4 1 0	Bobbin	H×1	For small bobbin
	KF 2 2 0 4 2 1	Bobbin (HSM) (DBM)(Aluminium, For middle bobbin)	H×1	For middle bobbin
8	KF 2 2 0 7 8 0	Rotating hook HSL-A(M1Q)TS	H×2	For small bobbin
	HB 2 2 0 0 1 0	Rotating hook HSL-A(M2QTS)Middle bobbin	H×2	For middle bobbin
9	HP 2 2 0 6 8 0	Lower shaft collar	H×1	For small bobbin
	HK 2 2 0 6 8 1	Lower shaft collar	H×1	For middle bobbin
10	HP 2 2 0 7 2 0	Lower shaft (Bevel gear)	H×1	For small bobbin
	HP 2 2 0 7 3 0	Lower shaft for middle bobbin (Bevel gear)	H×1	For middle bobbin
11	HP 2 2 0 7 0 1	Lower shaft metal (Bevel gear)	H×1	
12	KL 2 2 0 1 4 0	Oil felt C	H×1	
13	HH 2 2 0 5 7 0	Lower shaft metal oil felt	H×1	
14	KF 2 2 0 5 1 1	Rotating hook bobbin case holder position bracket	H×1	
15	HP 2 1 0 3 4 1	Bed (Bevel gear)	H×1	For small bobbin
	HP 2 1 1 0 5 0	Bed for middle bobbin	H×1	For middle bobbin
16	HP 3 2 1 0 8 2	Lower shaft connecting gear (Large gear)	H×1	
17	HP 3 2 1 0 9 0	Lower shaft connecting shaft collar	H×1	
18	A 9 0 1 4 0 2 2	D=12 Blanking cover	H×1	
19		Screw (SM11/64 40×5)		
20		Hex. socket set screw M4×5		
21		Hex. socket set screw M5×5		
22		Flat screw (SM11/64 40×10)		
23		Flat set screw (SM11/64 40×4)		
24		Hex. socket set screw M5×10		
25		Hex. socket bolt M6×25		
26		Hex. socket set screw M5×8		
27	A 9 0 1 1 1 1 1	Needle bearing(TLA-2012Z)	H×1	

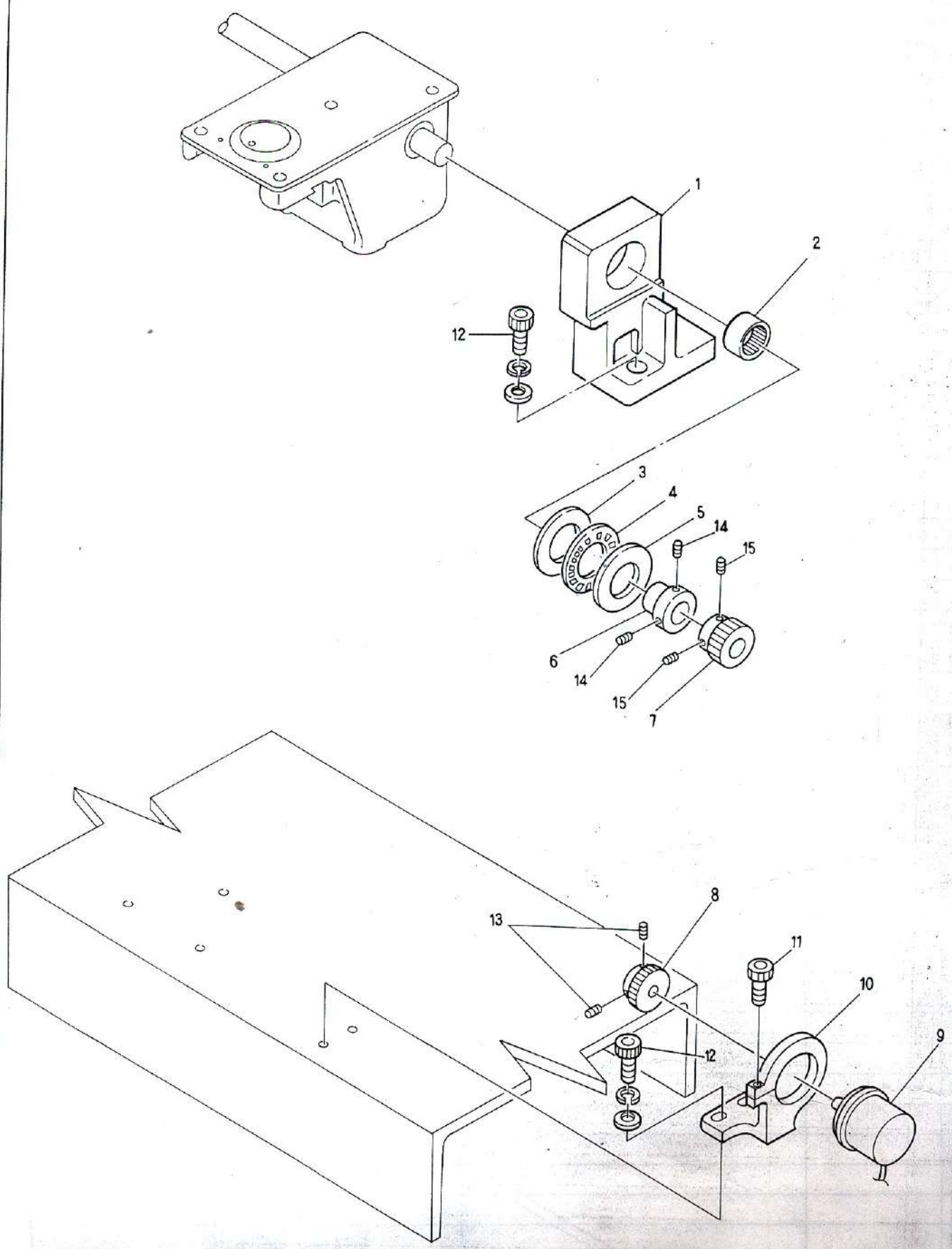
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③ Thread cutting mechanism I (Thread cutting section)-



(H=Head Q' TY)

- 7 -

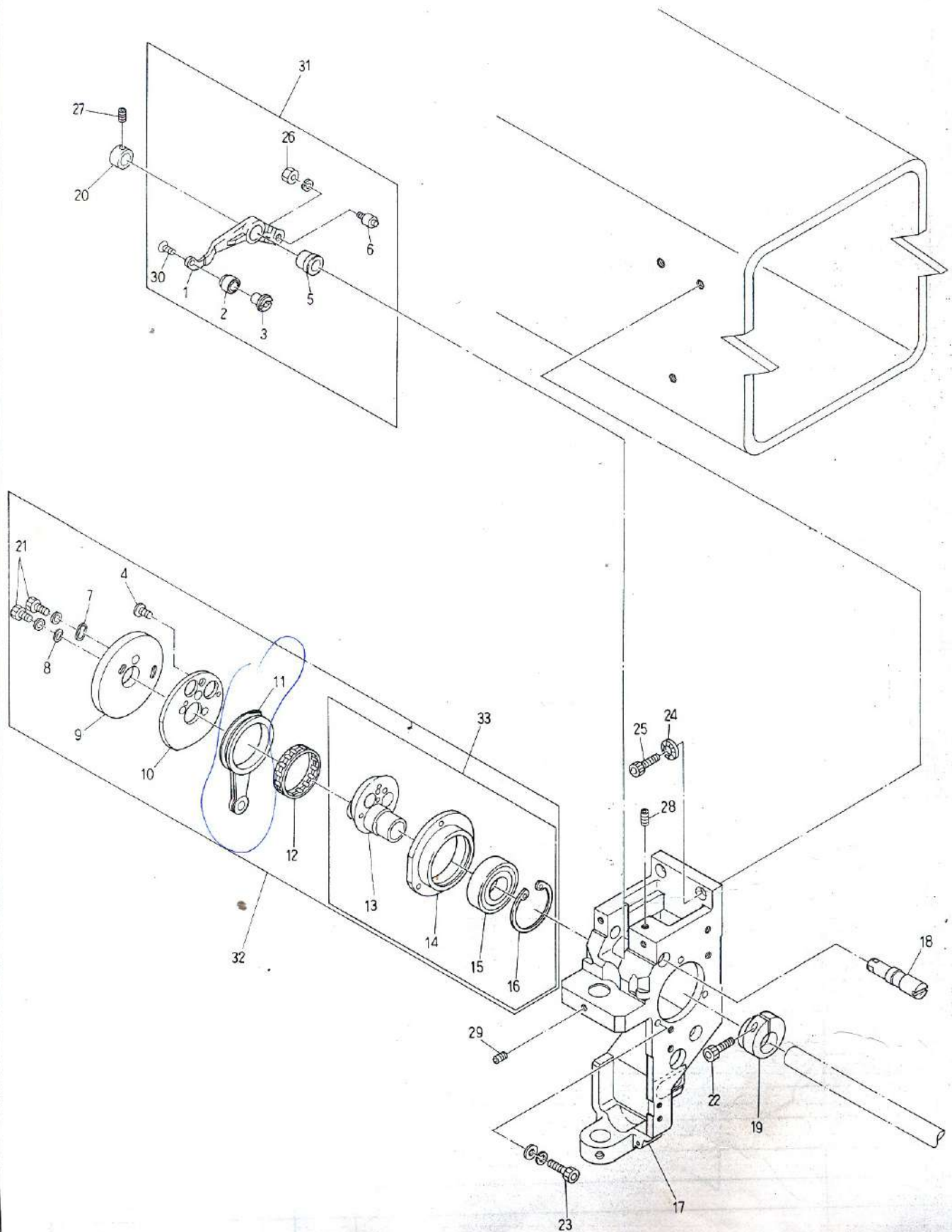


④ Encoder a' ssy

[illegible]

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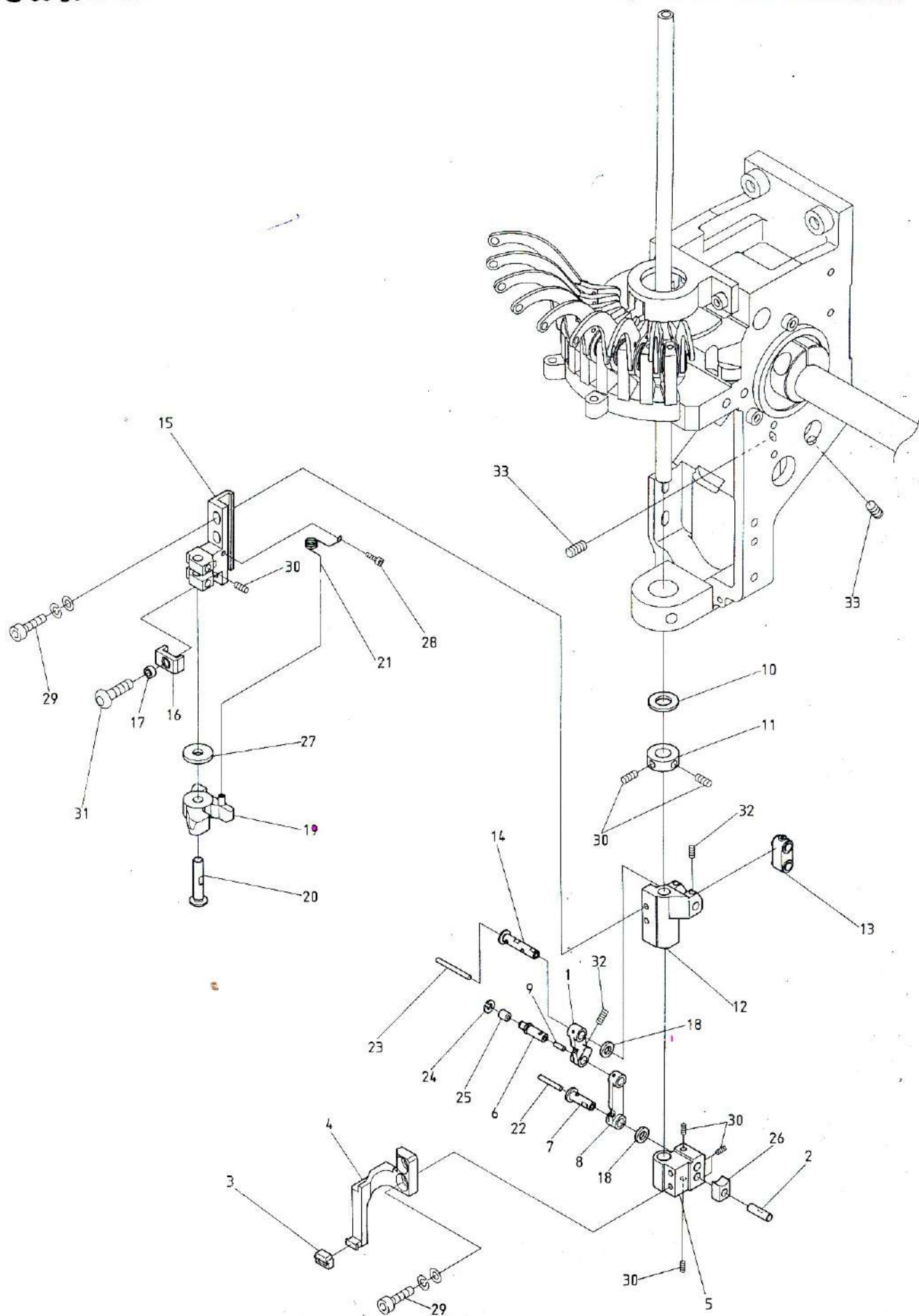
⑤ Take up lever a'ssy I



⑦ Needle bar mechanism I

(H=Head Q'TY)

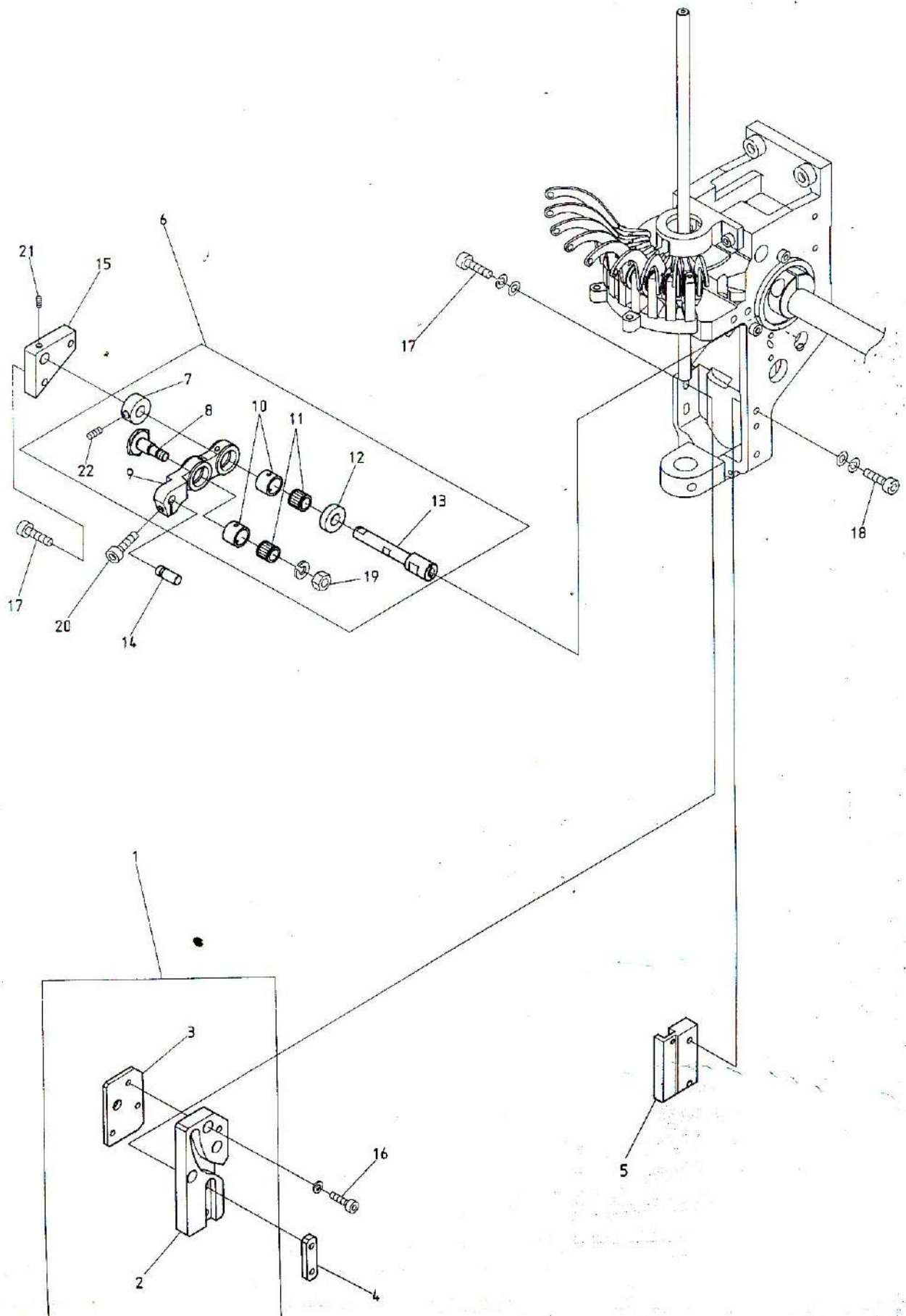
ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1		Turning plate a'ssy	H×1	
2	HT230130	Needle bar cap	H×9	
3	HB230190	Lock lever shaft	H×1	
4	KF230640	Lock connecting bar clamp	H×1	
5	KC330410	Lock connecting rod (L-2000)	6	
6	HT230810	Needle bar a'ssy	H×9	
7	HT230251	Needle bar spring (Upper)	H×9	
8	HT230141	Pressure 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 (H)		
41		Hex. socket bolt M3 ×8		
42		Hex. socket set screw M4 ×4 (With adhesion)		



⑧ Needle bar mechanism II

(H=Head Q' TY)

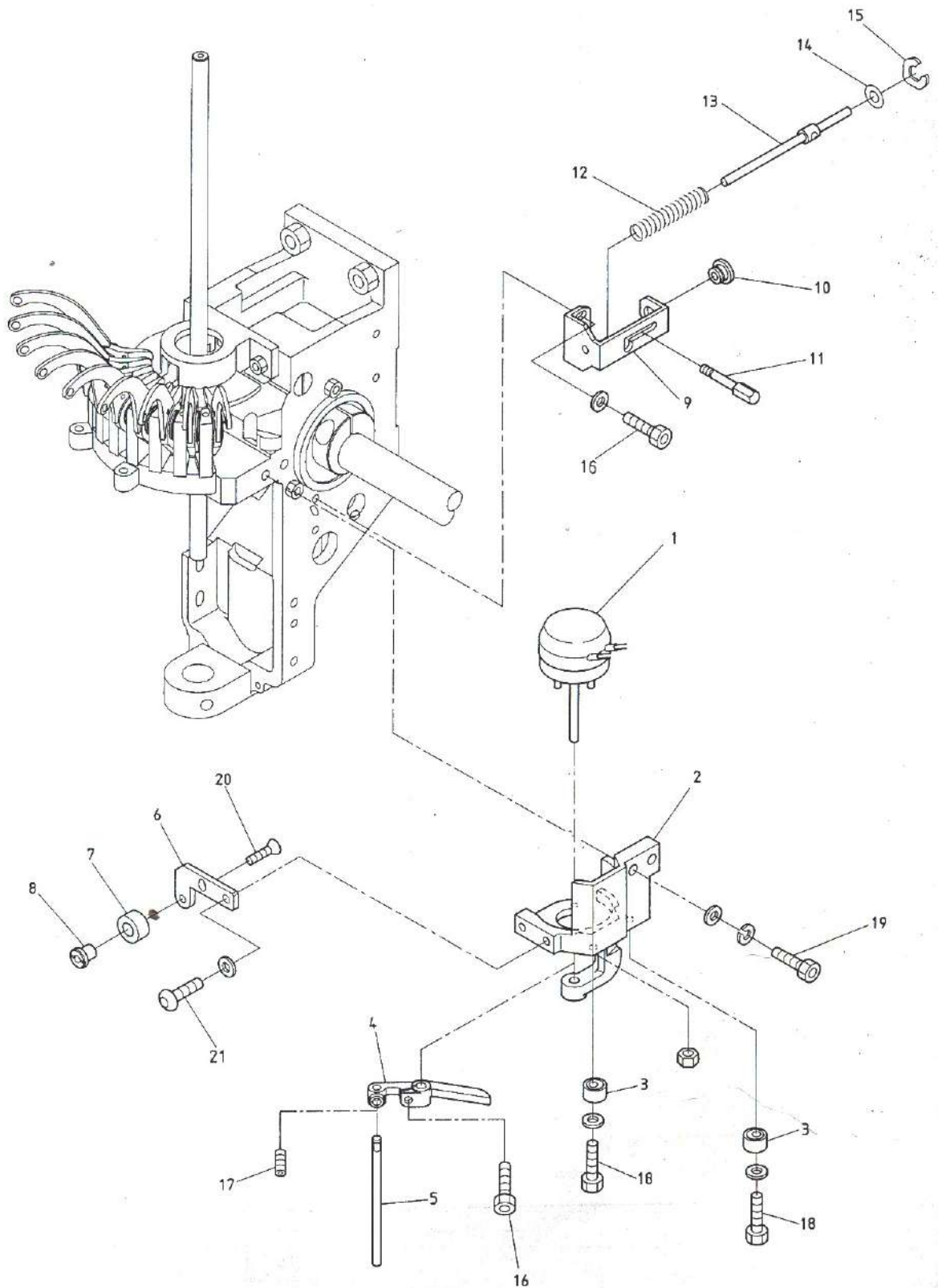
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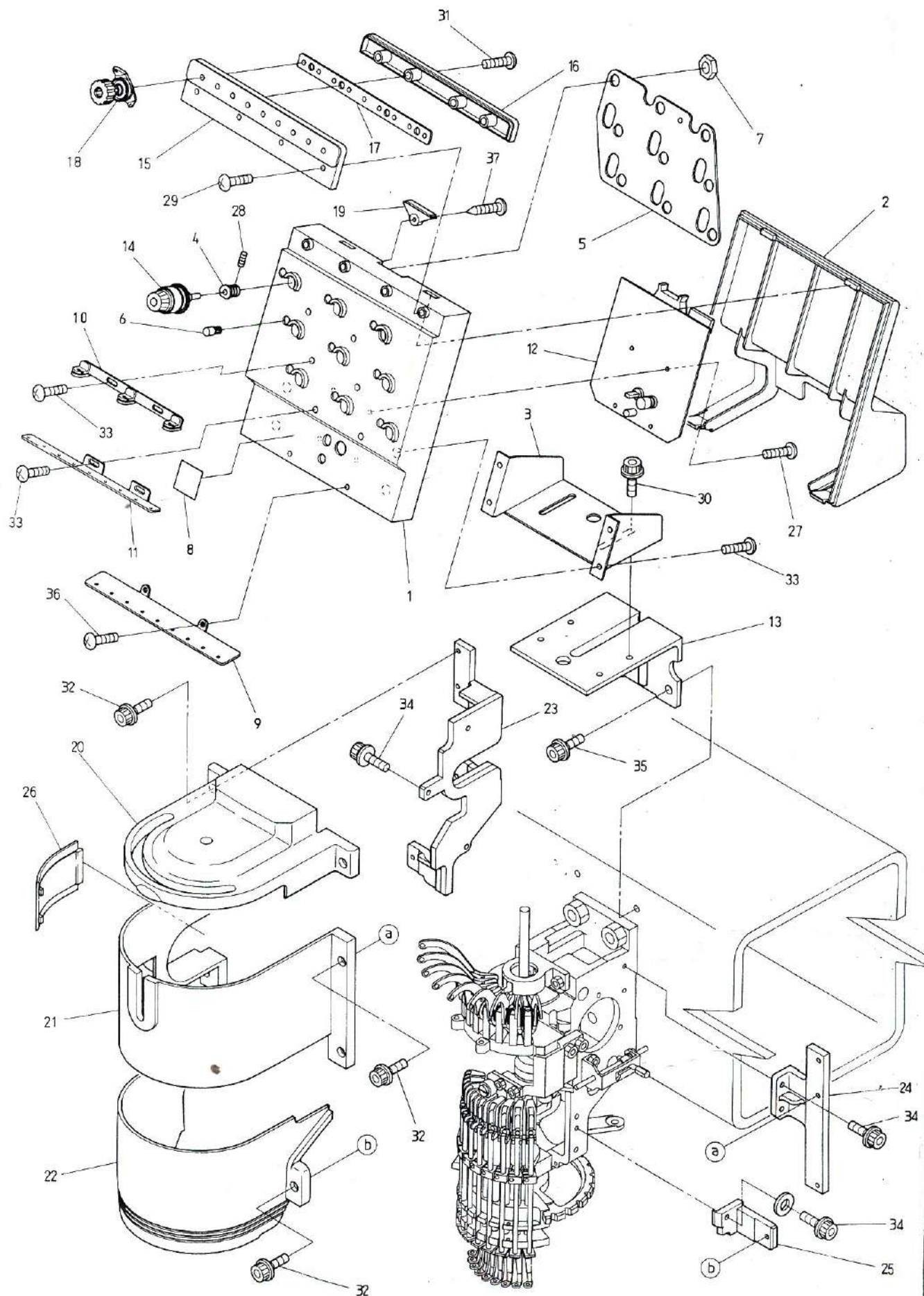
⑨ Needle bar mechanism III

(H=Head Q' TY)

[illegible]



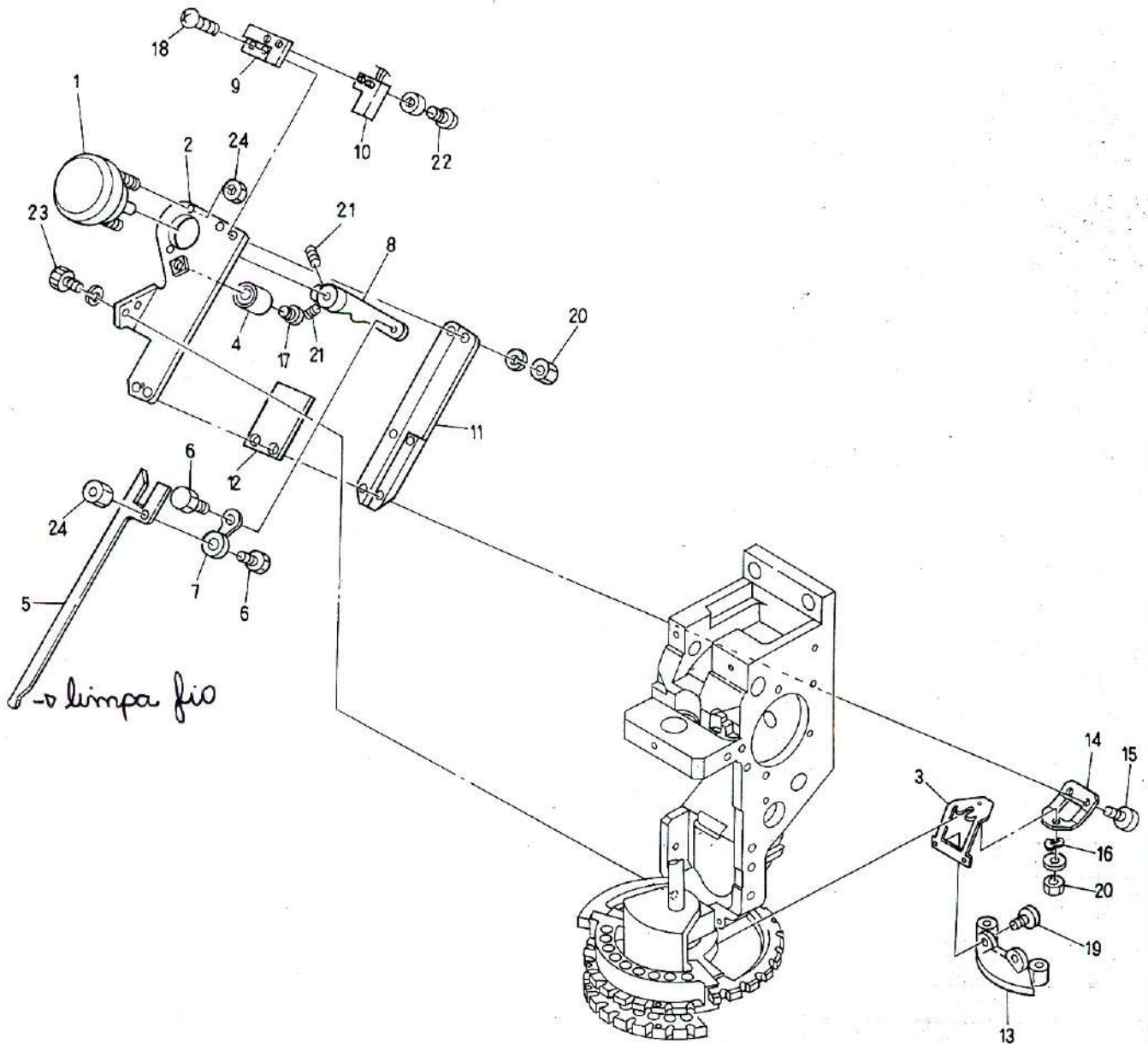
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⑪ Thread guide mechanism

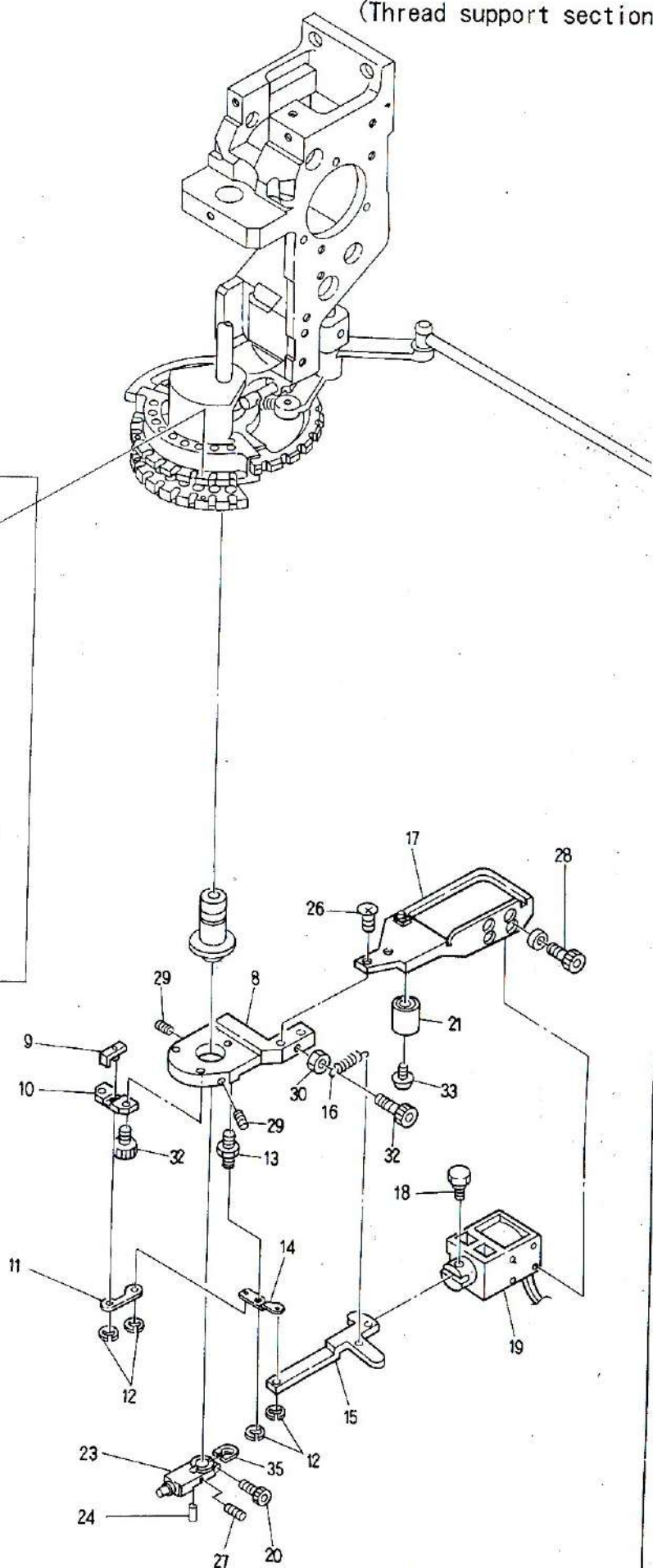
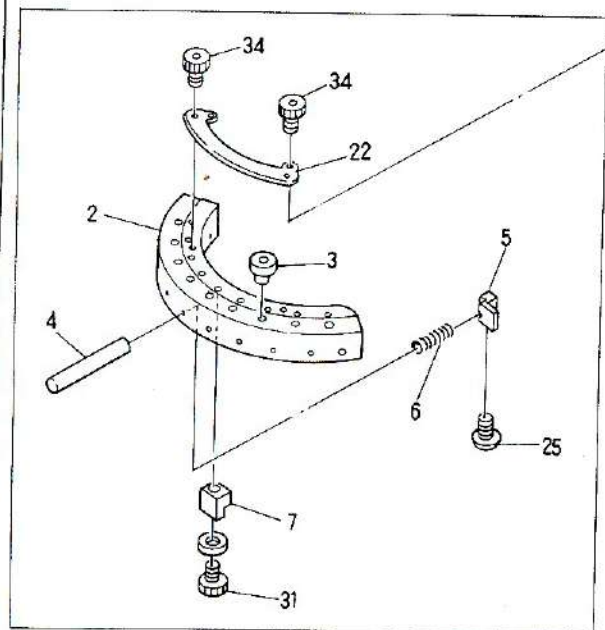
(H=Head Q' TY)

[illegible]



(H=Head Q' TY)

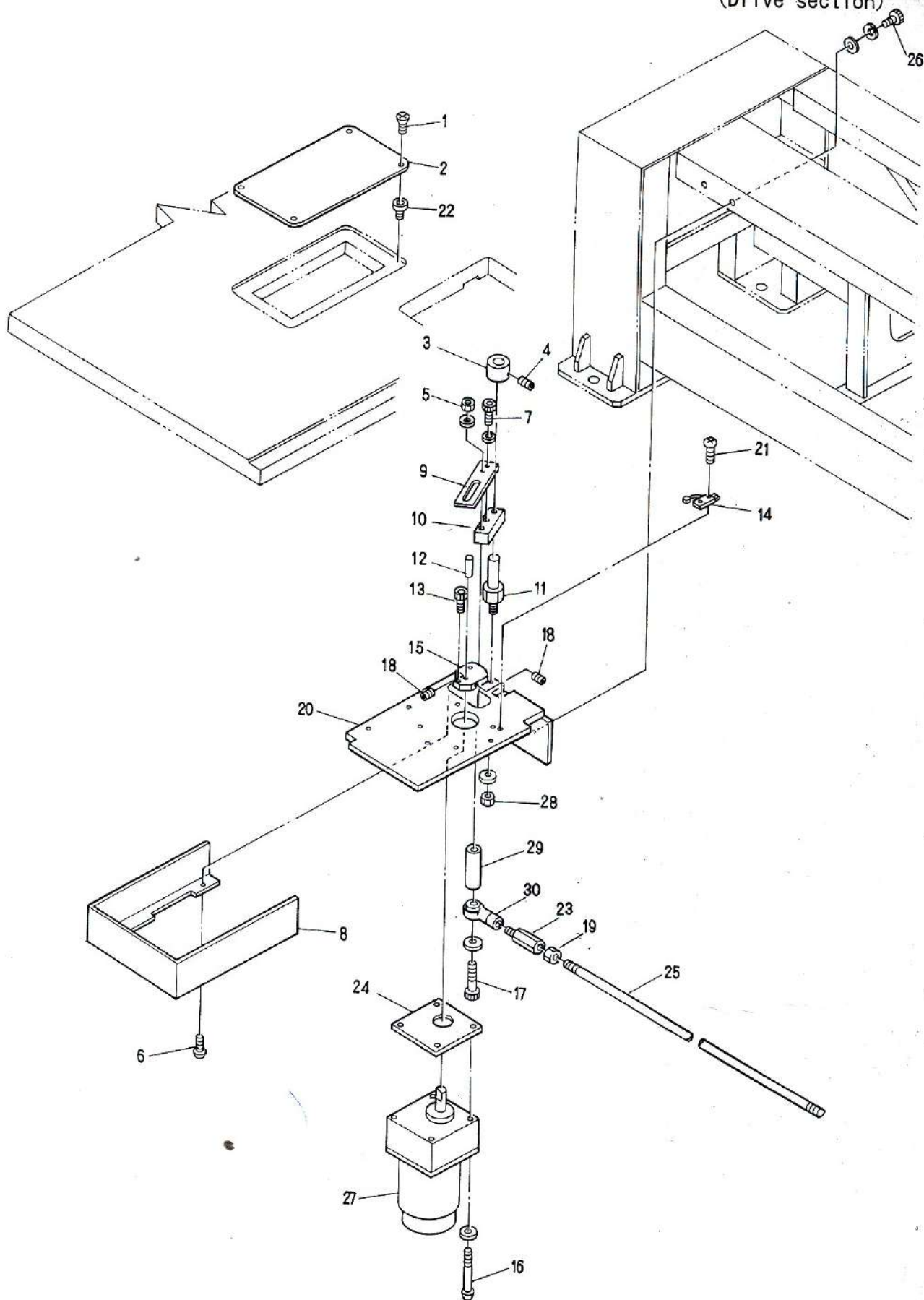
— 25 —



(H=Head Q' TY)

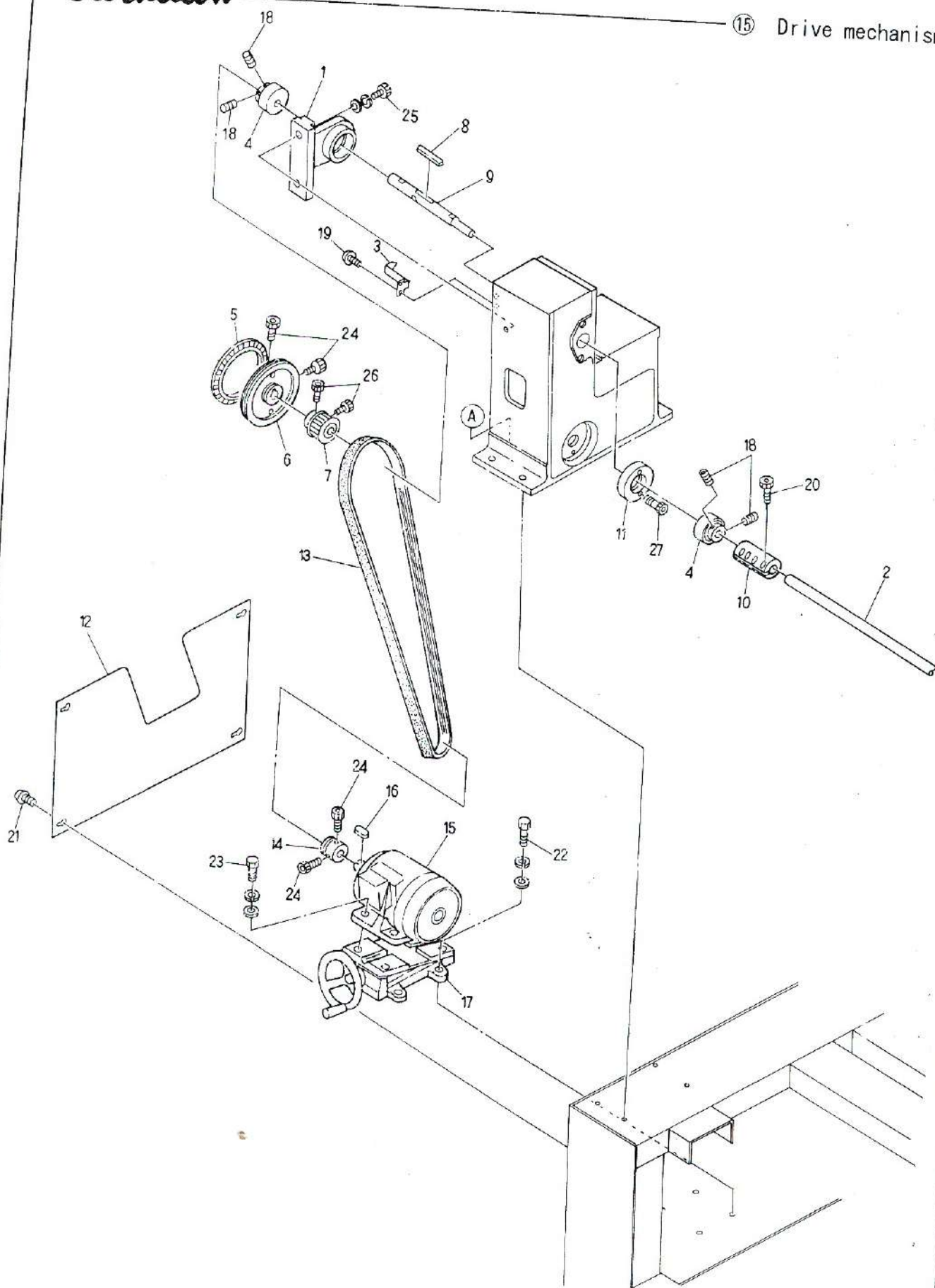
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⑭ Thread cutting mechanism IV (Drive section)



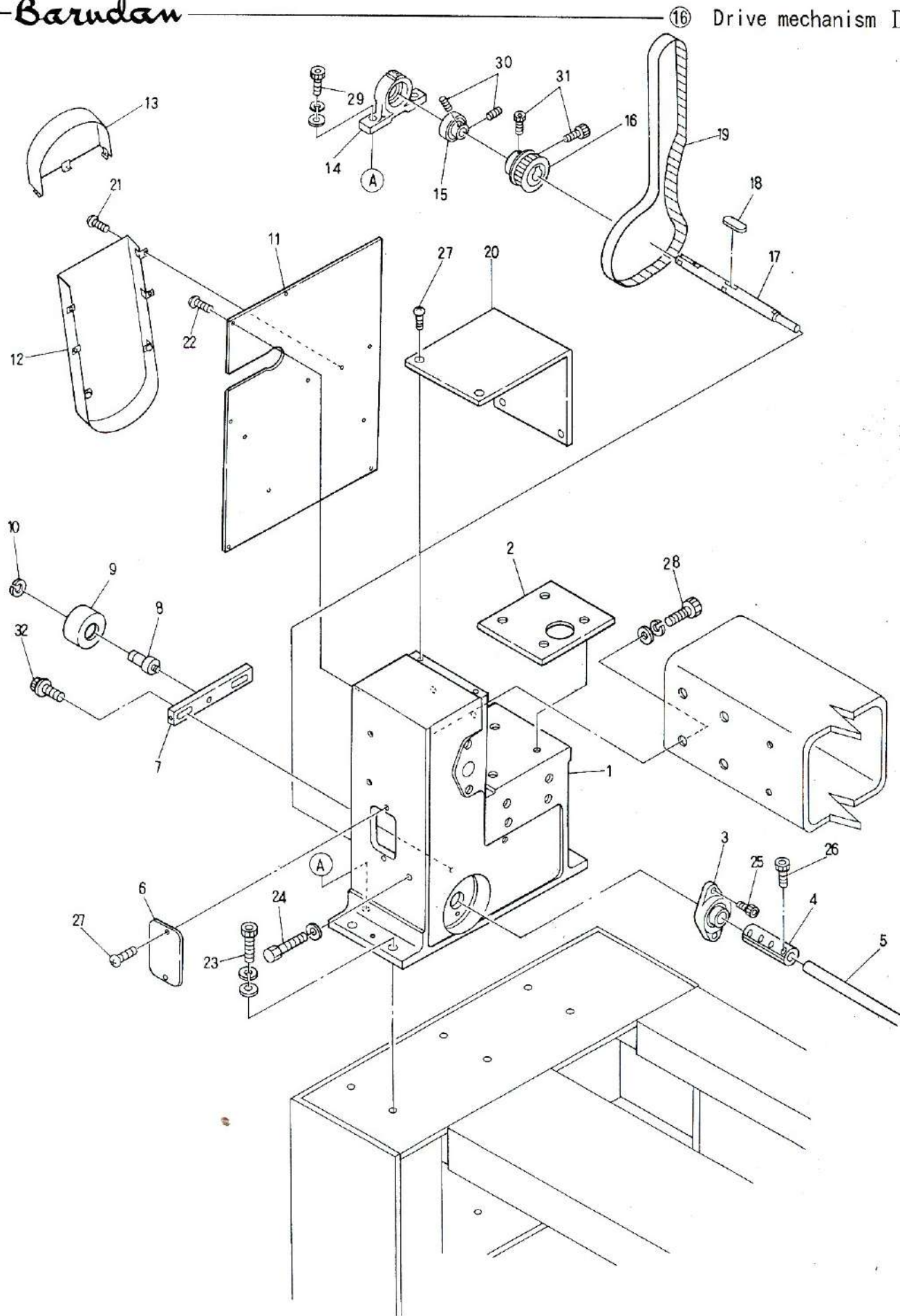
⑭ Thread cutting mechanismIV (Drive section)

[illegible]



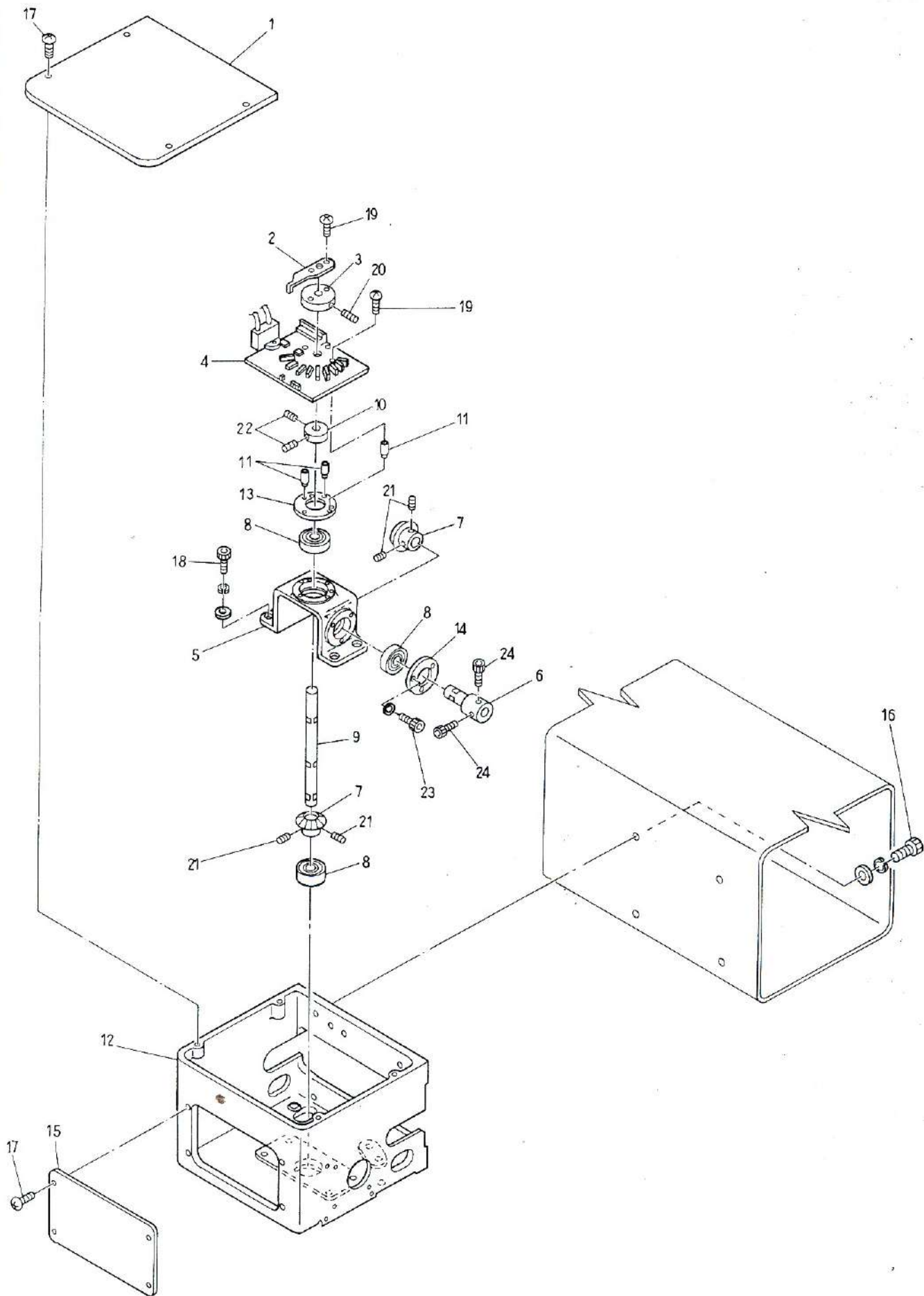
⑮ Drive mechanism I

[illegible]



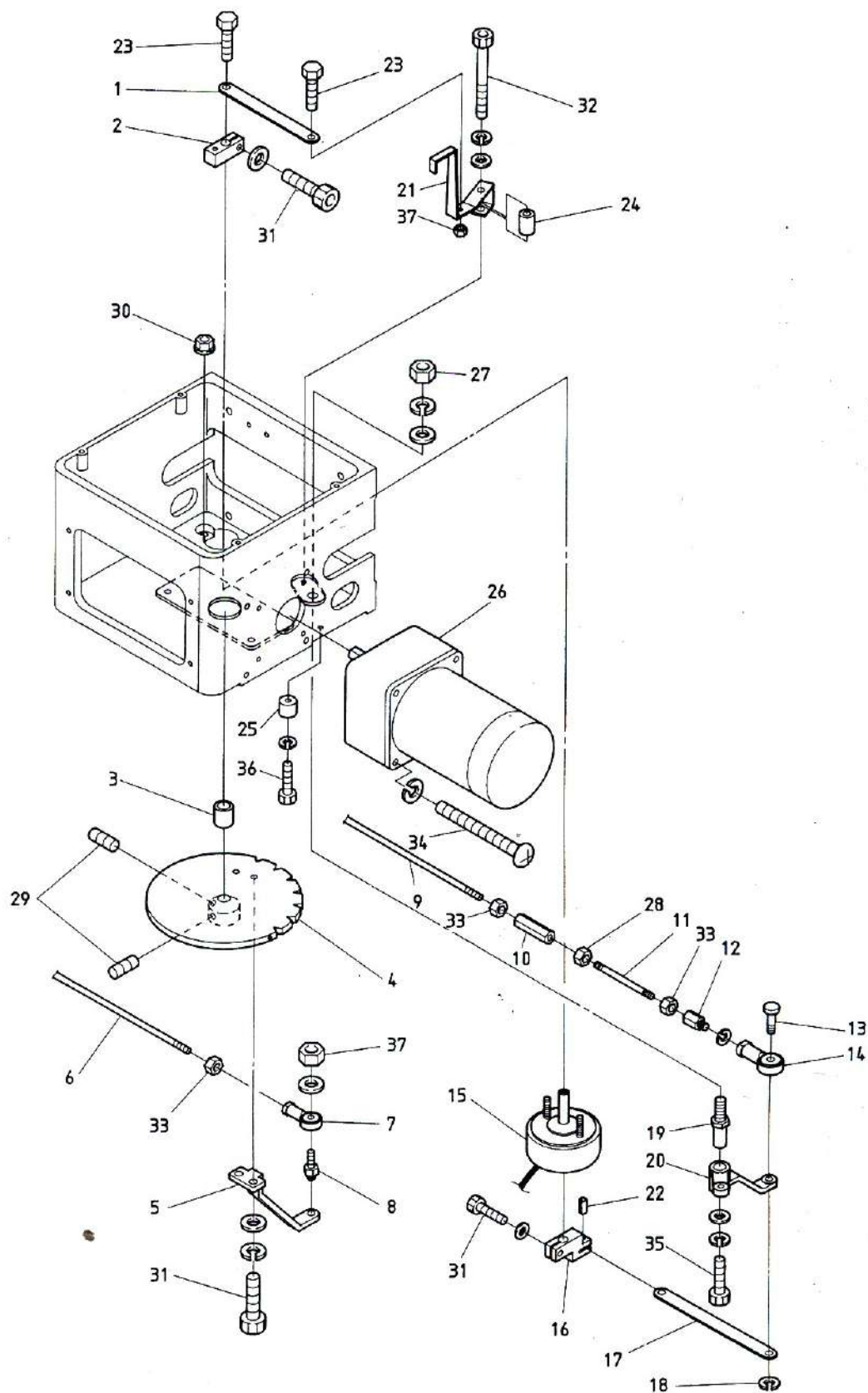
⑩ Drive mechanism II

[illegible]



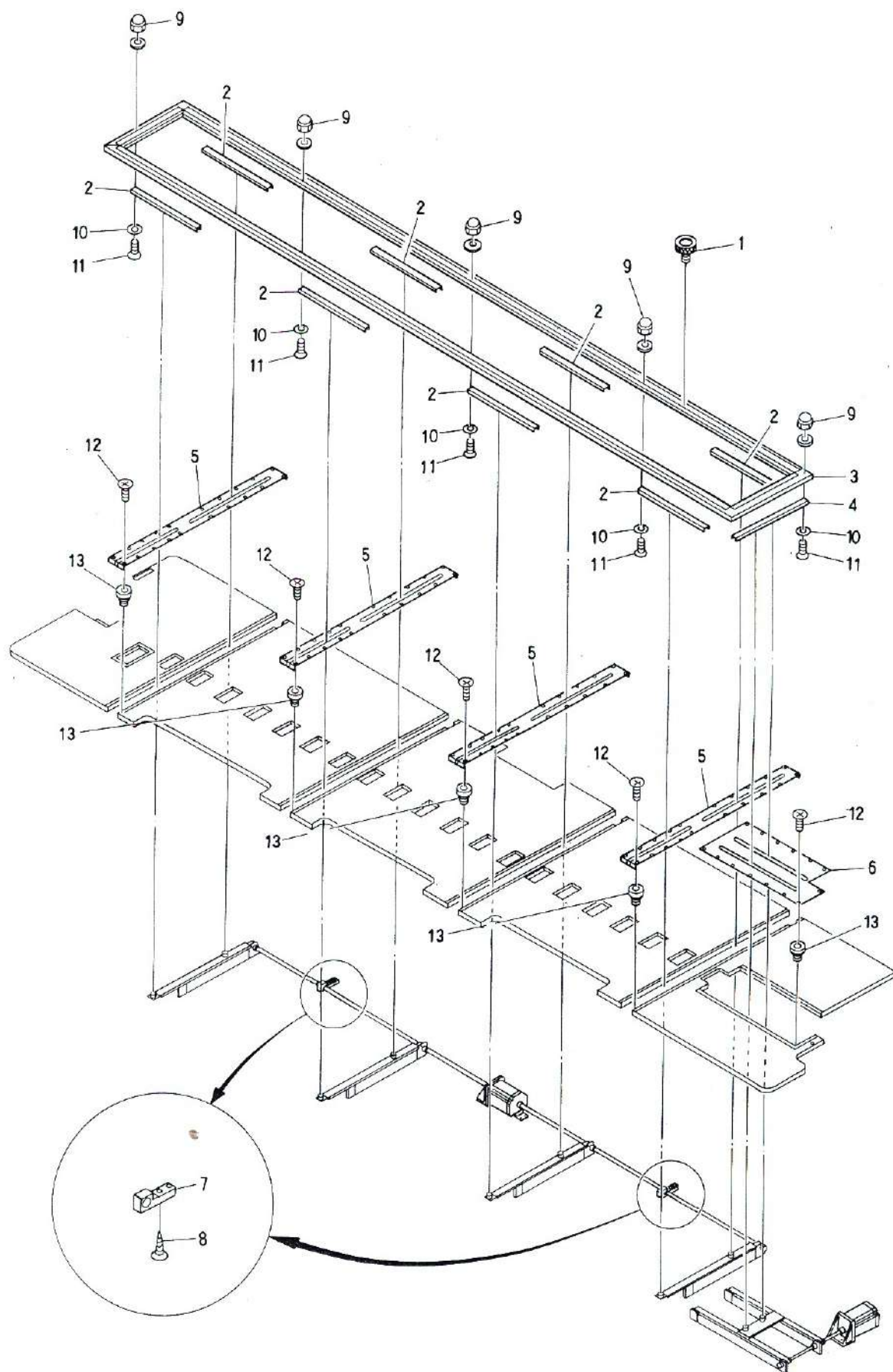
⑪ Color change mechanism I

[illegible]



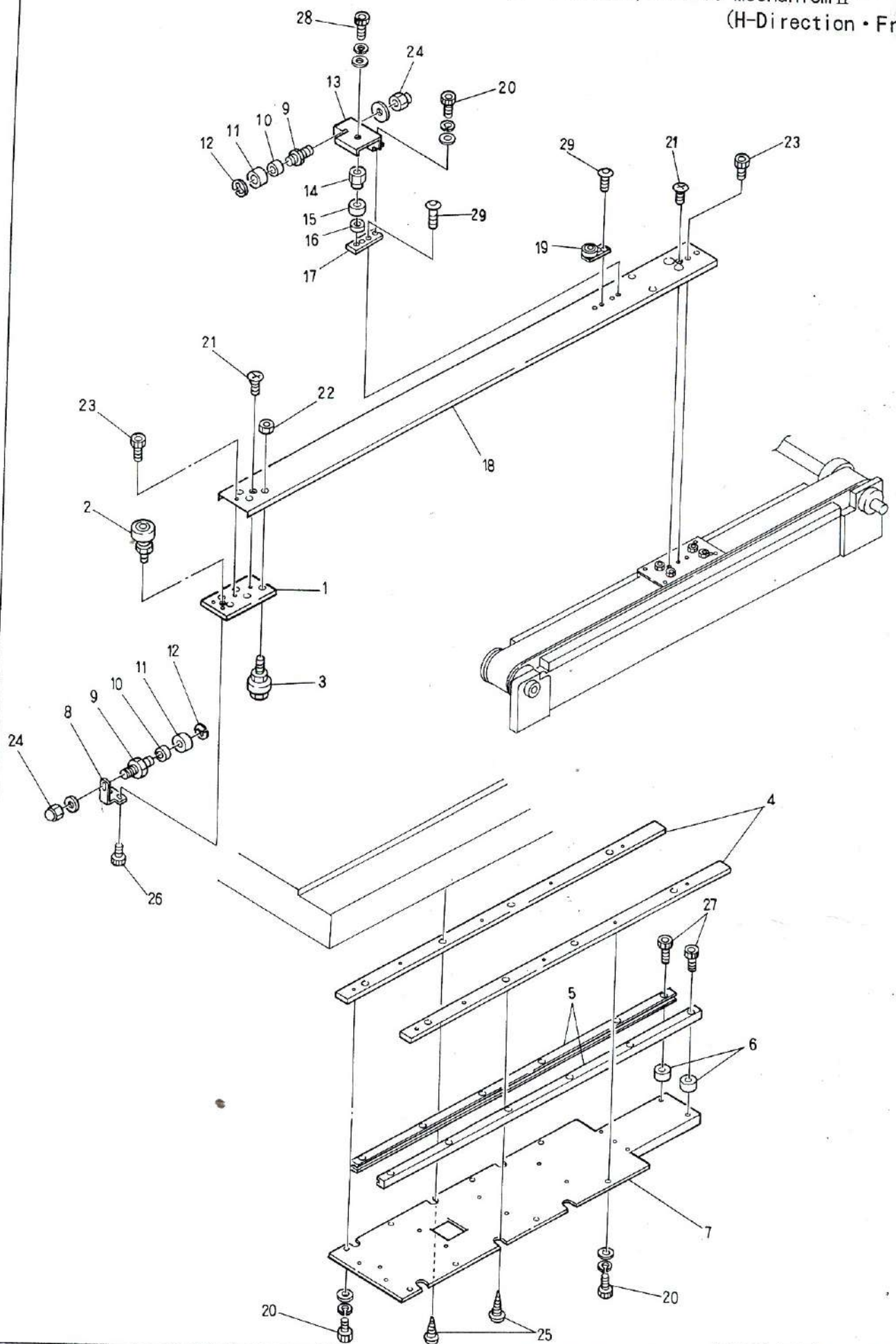
⑮ Color change mechanism II

[illegible]



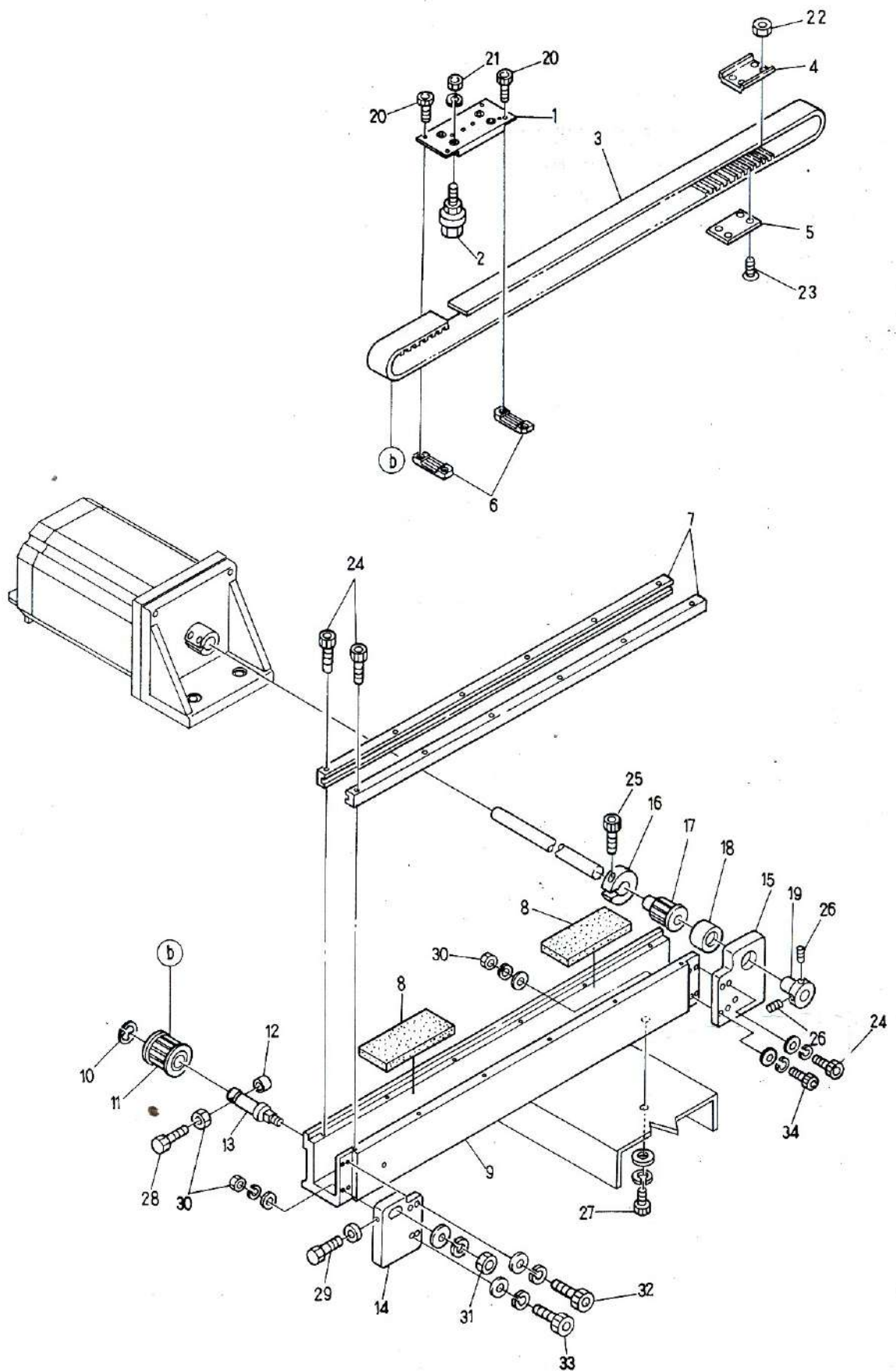
⑮ Pantograph drive mechanism I (Pantograph · Guide cover)

[illegible]



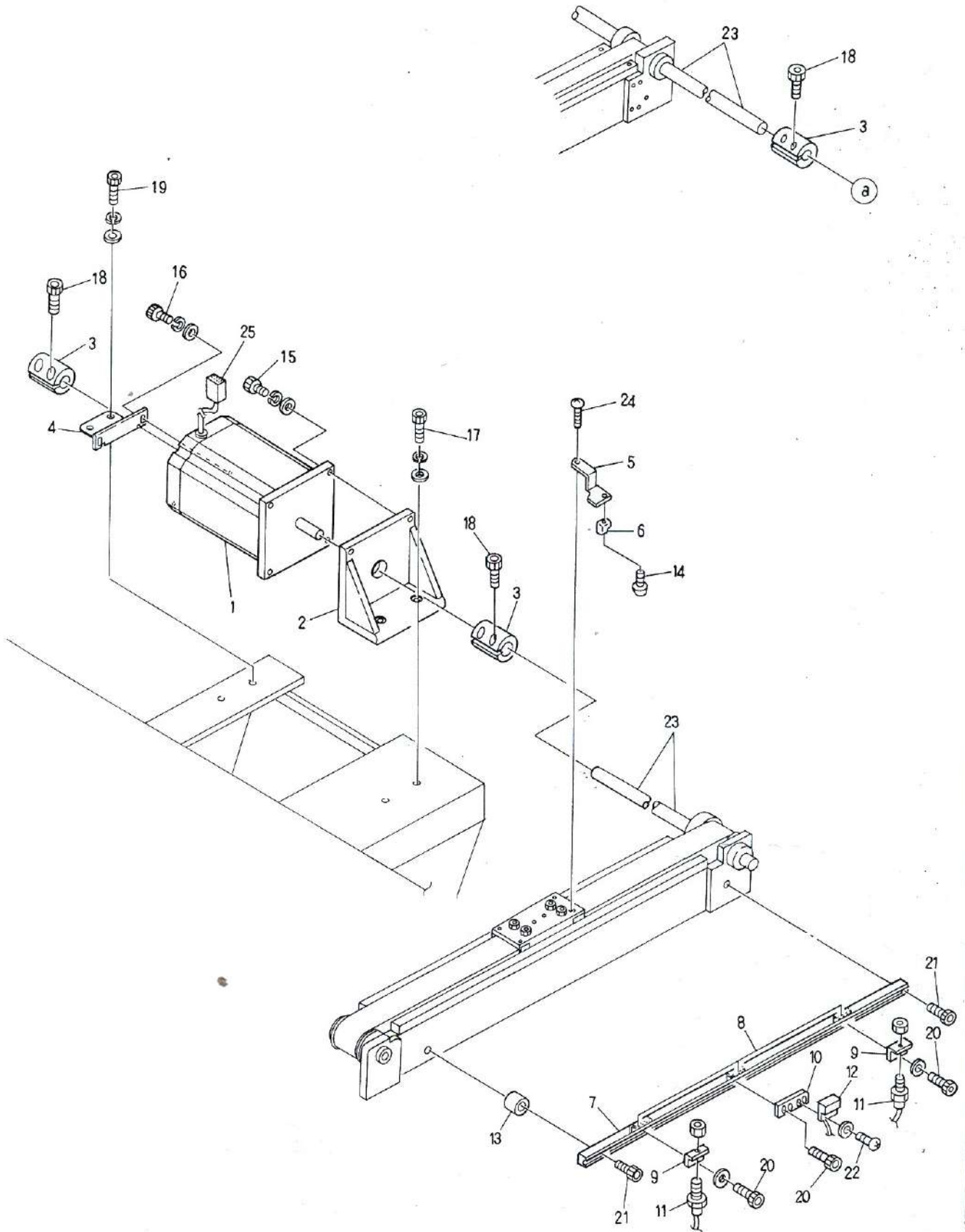
②⑩ Pantograph drive mechanism II (H-Direction・Front) (※Change the LIST No. by machine type) (R=H-Rail Q'TY)

[illegible]



②① Pantograph drive mechanismⅢ (H-Direction・Rear)(※Change the LIST No. by machine type)(R=H-Rail 0' TY)

[illegible]

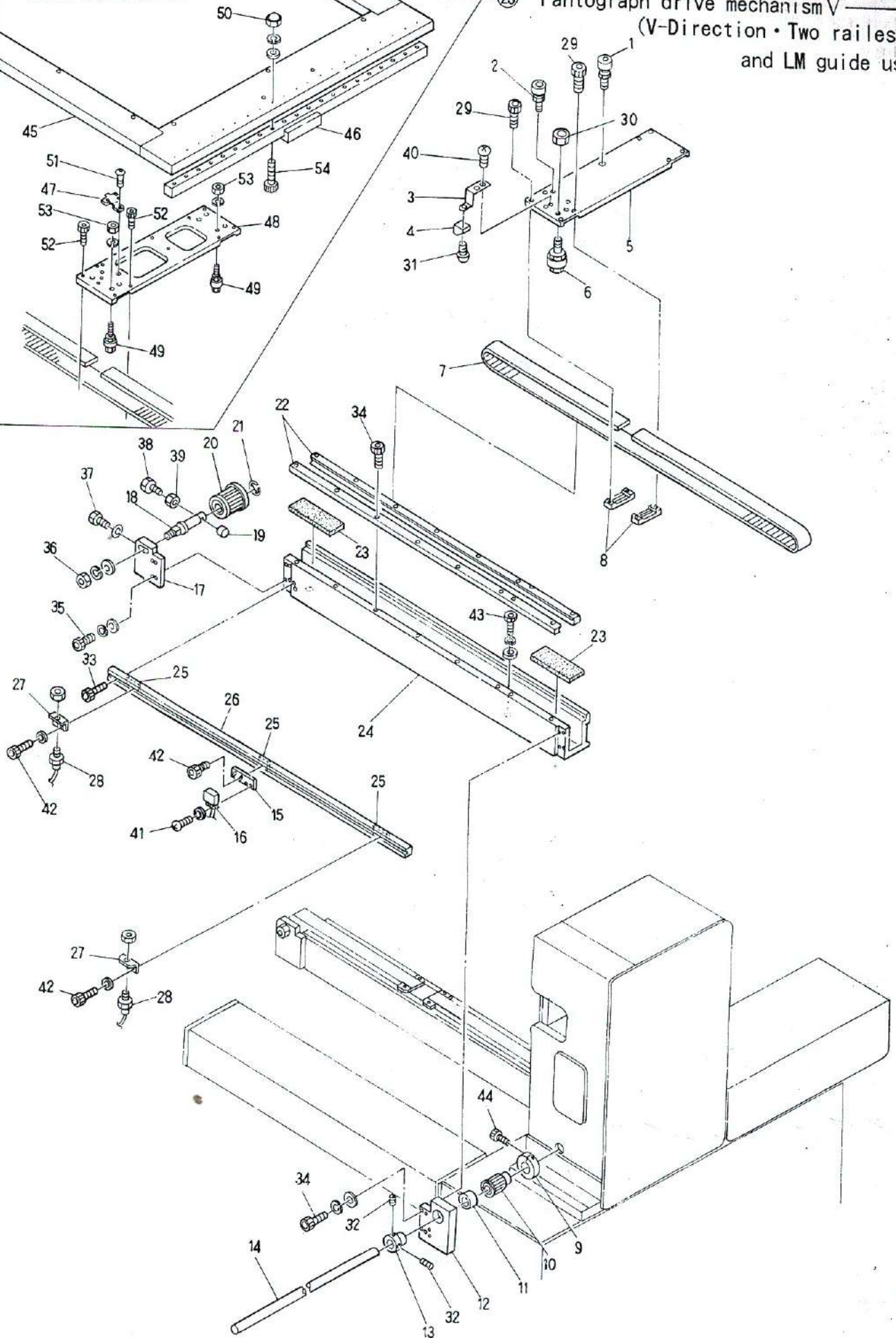


②② Pantograph drive mechanismIV (H-Direction・Drive)(※Change the LIST No. by machine type)

[illegible]

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



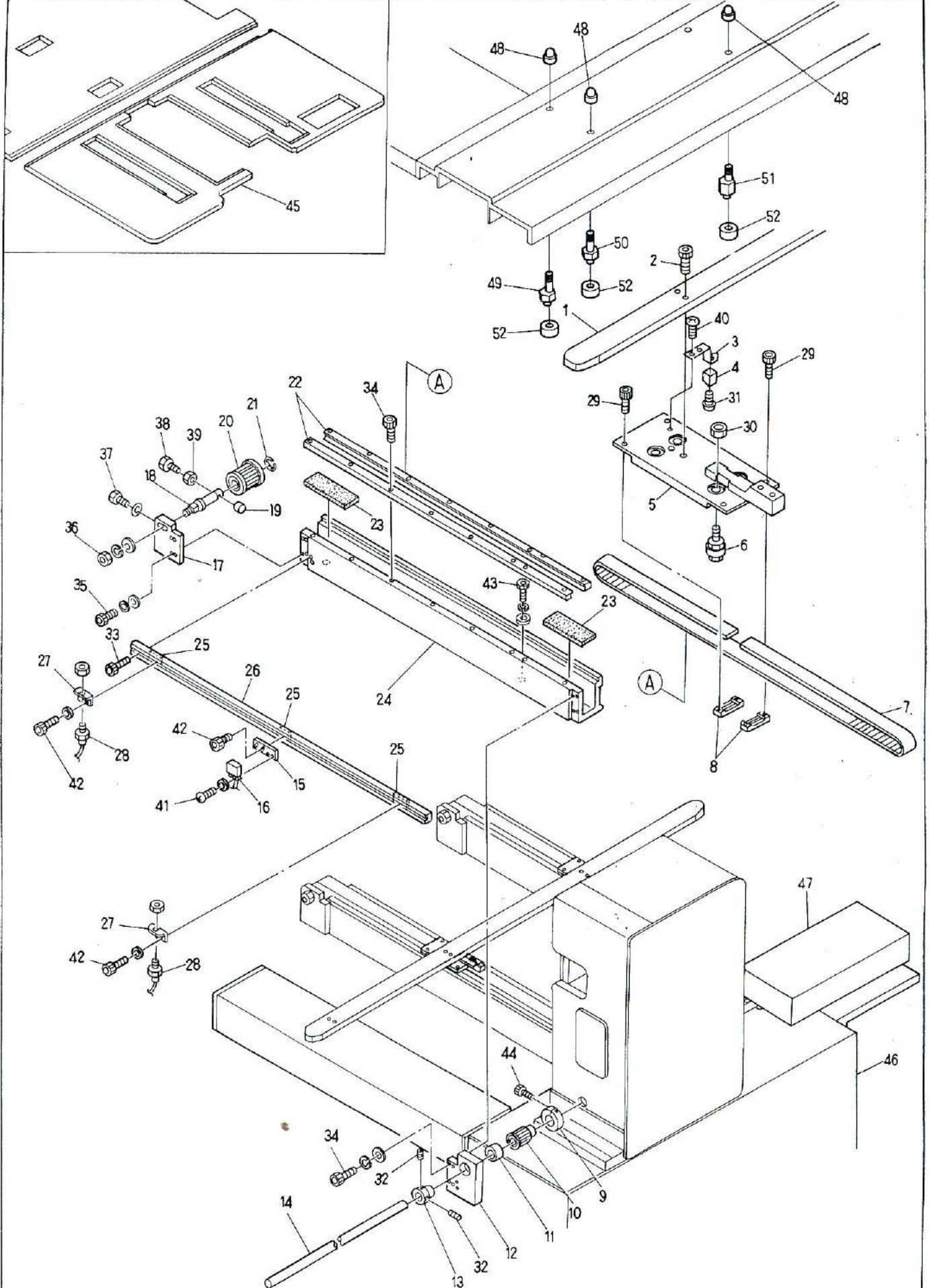
MODEL BENS-HYN

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
4.6		LM Guide (L=630)	1	LM guide use
4.7	HS460100	V Pantograph driving rail fixing bracket	1	LM guide use
4.8	HS480020	V Roller base (LM guide)	1	LM guide use
4.9	HP482950	Roller pin assy A	1	LM guide use
5.0		Cap nut	8	LM guide use
5.1		Hex. socket button bolt M4×6		LM guide use
5.2		Hex. socket bolt M3×6		LM guide use
5.3		Hex. nut M5		LM guide use
5.4		Hex. socket bolt M3×8		LM guide use

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
1	HP483111	Guide bearing pin assy (B)	1	
2	HP483370	Guide bearing pin assy	1	
3	HP451100	V-Pantograph origin point magnet bracket	1	
4	A9052030	Magnet (M-102A-02)	1	
5	HP482882	V-Roller base	1	
6	HP482950	Roller pin assy A	8	
7	A9020098	Timing belt (300S502001)	2	
8	HP482940	Timing belt set rack (SM)	4	
9	HH481980	Clamping φ19	2	
10	HV480040	Pantograph driving pulley (Rear) (SSM)	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 2 rails)	1	
15	KN450300	MP-501A 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) (SSM)	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	HP482170530	V-Guide rail base (Stroke 500)	2 ※	
25	KU460270	Plate nut (M3)	3	
26	HP451120530	V-Pantograph origin point rail (For V530)	1 ※	
27	MT460240	RS-001 Bracket (Y 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 M3×25		
44		Hex. socket bolt M5×18		
4.5	IPM153808045H	Pantograph frame assy (BENCH-Y3-15 450×380/380)	1	※LM guide use

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



MODEL BENS-H-YN

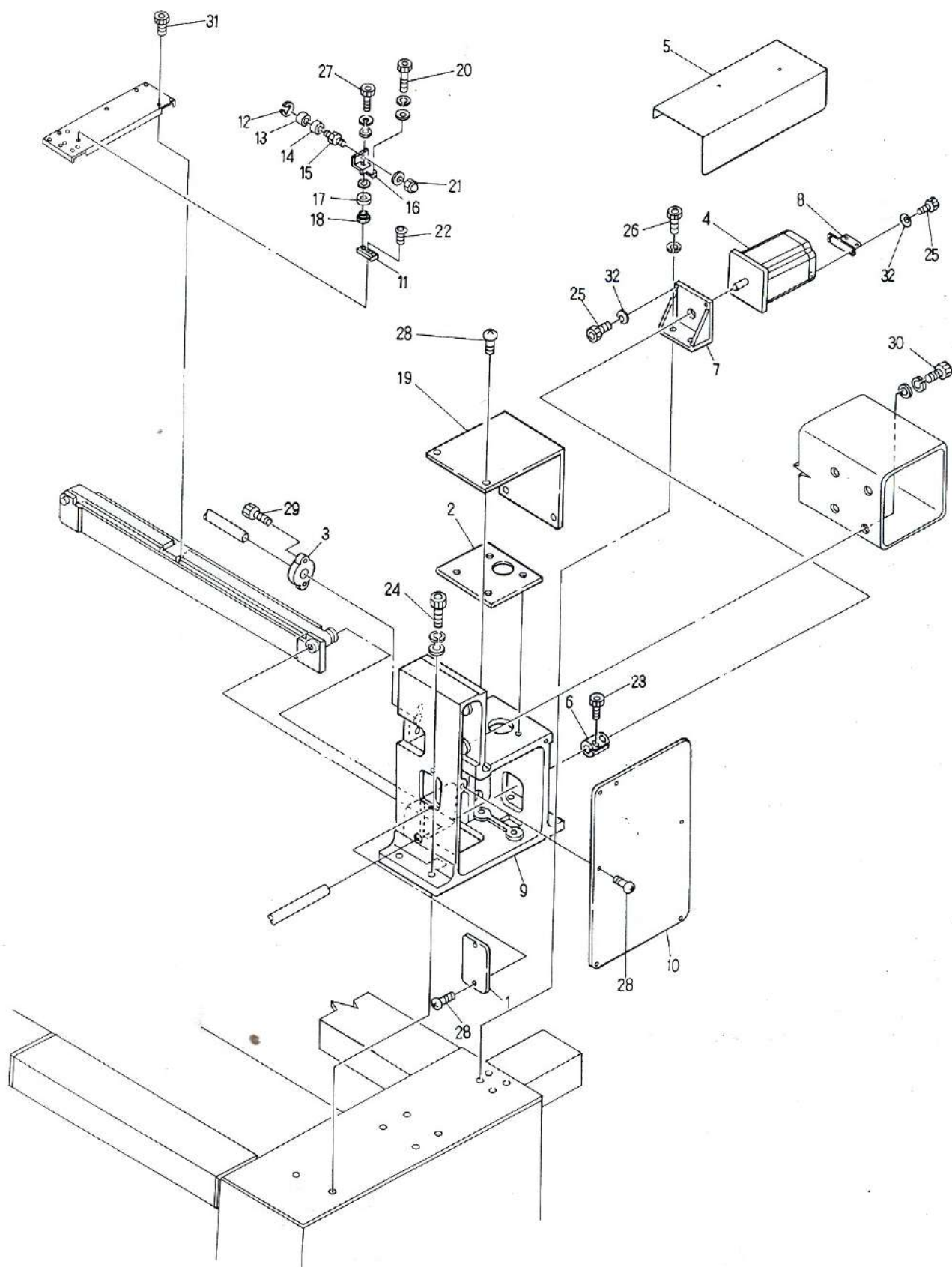
Change the LIST No. by machine type

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
1	HV480110	V-Slide rail	1	
2		Hex. Socket bolt M5x15		
3	HP451100	V-Pantograph origin point magnet bracket	1	
4	A9052030	Magnet (W-102A-02)	1	
5	HP483341	V-Roller base	1	
6	HP482950	Roller pin assy A	3	
7	A9020098	Timing belt (3005W0000)	8	
8	HP482940	Timing belt set rack (5W)	2	
9	HH481980	Clamping $\phi 19$	4	
10	HV480040	Pantograph driving pulley (Rear) (S5W)	2	
11	A9011063	Needle bearing (TIA2016)	2	
12	HV480030	H-Guide rear pulley bracket	2	
13	HH481970	Pulse motor connecting shaft collar	2	
14	HV480000	V-Pulse motor connecting shaft (V3 railies)	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) (S5W)	2	
21	A9012052	E-Ring ($\phi 10$)	2	
22	HP482910	V-Guide rail (L=1060)	4	
23	KN480001	Rail base felt (100x38x6)	4	
24	HP482170530	V-Guide rail base (Stroke 530)	2	
25	KU450270	Plate nut (M)	3	
26	HP451120530	V-Pantograph origin point rail (For V330)	1	
27	MT460210	RS-001 Bracket (V side)	2	
28	A9052024	Switch (RS-001)	2	
29		Hex. socket bolt M3x6		
30		Hex. nut M5		
31		Truss screw M3x6		
32		Hex. socket set screw M3x8		
33		Hex. socket bolt M1x8		
34		Hex. socket bolt V1x15		
35		Hex. socket bolt M4x18		
36		Hex. nut M8		
37		Hex. bolt M4x25		
38		Hex. bolt M4x35		
39		Hex. nut M4		
40		Flush screw M3x8 (Undercut)		
41		Truss screw M3x10		
42		Hex. socket bolt M3x8		
43		Hex. socket bolt M3x25		
44		Hex. socket bolt M5x18		
45	EDW2300350001	Table (For V3 railies)	1	

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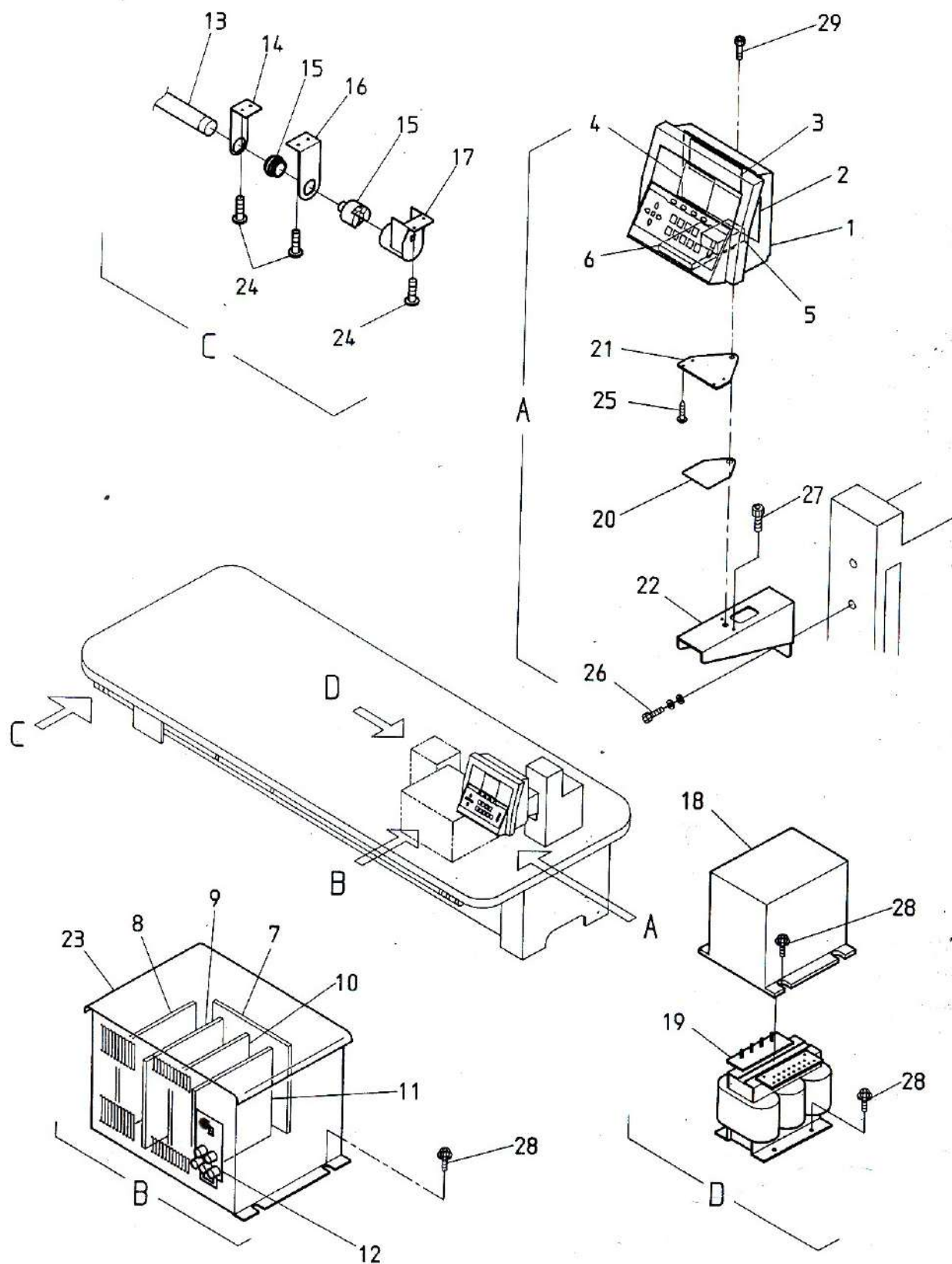
Change the LIST No. by machine type

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
46	IAIV200035000H	Rag frame (For V3 railies)	1	
47	HV310160	Pulse motor cover (For V3 railies)	1	
48		Cap nut M4		
49	HW480080	$\phi 10$ bearing shaft No.4	2	
50	HW480070	Guide bearing shaft No.3	2	
51	HW480050	Guide bearing shaft No.1	8	
52		Minia chair ball pillow block WEG-1822A		



②4 Pantograph drive mechanism VI (V-Direction Drive)

[illegible]



②⑤ Control system

[illegible]

②⑥ Option —



②6 Option

(※Change the LIST No. by machine type)

(2) Option		(*Change the LIST No. by machine type)	
ITEM	LIST No.	DESCRIPTION	Q'TY
1		Spool holder	
2	KF240900	Thread guide ceramic (For spool holder)	1
3	HT710000	Spool holder pin	
4		Spool holder base	
5	HP241430	Second tension unit complete (D=13.5)	8
6	LF-90671C	Fluorescent lamp	
7	HB710010	Fluorescent lamp fixing bracket	1
8		Flush screw M4×12	2
9		Hex. socket set screw M4×8	
10		Bobbin stand	
11		Hex. socket bolt M5×11	3
12	KF710390	Spool holder felt (8×34×φ70)	
13		Hex. bolt M8×20	
14		Hex. nut M5	
15		Hex. socket bolt M8×45	
16		Hex. socket bolt M5×12	
17	HB710020	Fluorescent lamp set plate	
18		Hex. socket set screw	

I N D E X

L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
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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
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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
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HS 4 8 2 9 5 0	4 9	4 7	HT 2 3 0 5 5 0	1 5	2 1
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HT 2 3 0 0 6 2	1 5	1 7	HT 2 3 0 6 0 0	1 9	3
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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
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HT 2 4 0 2 8 0	5 7	4	HV 4 8 0 0 1 0	4 5	2
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[illegible]