

Bardan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

BENSHE-YN

PARTS LIST

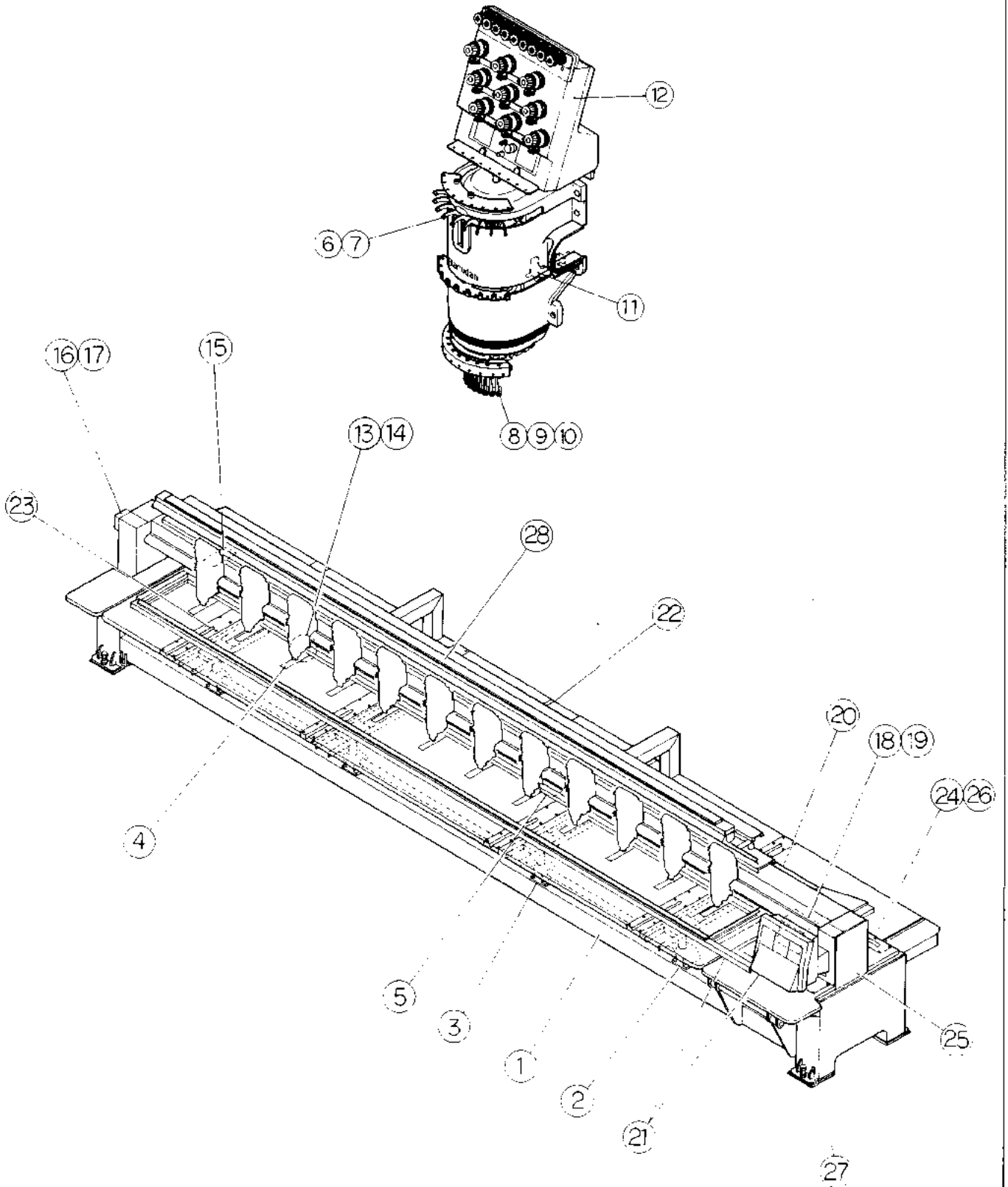
HIGH SPEED AUTOMATIC EMBROIDERY

BENSHE-YN

MACHINE PARTS LIST

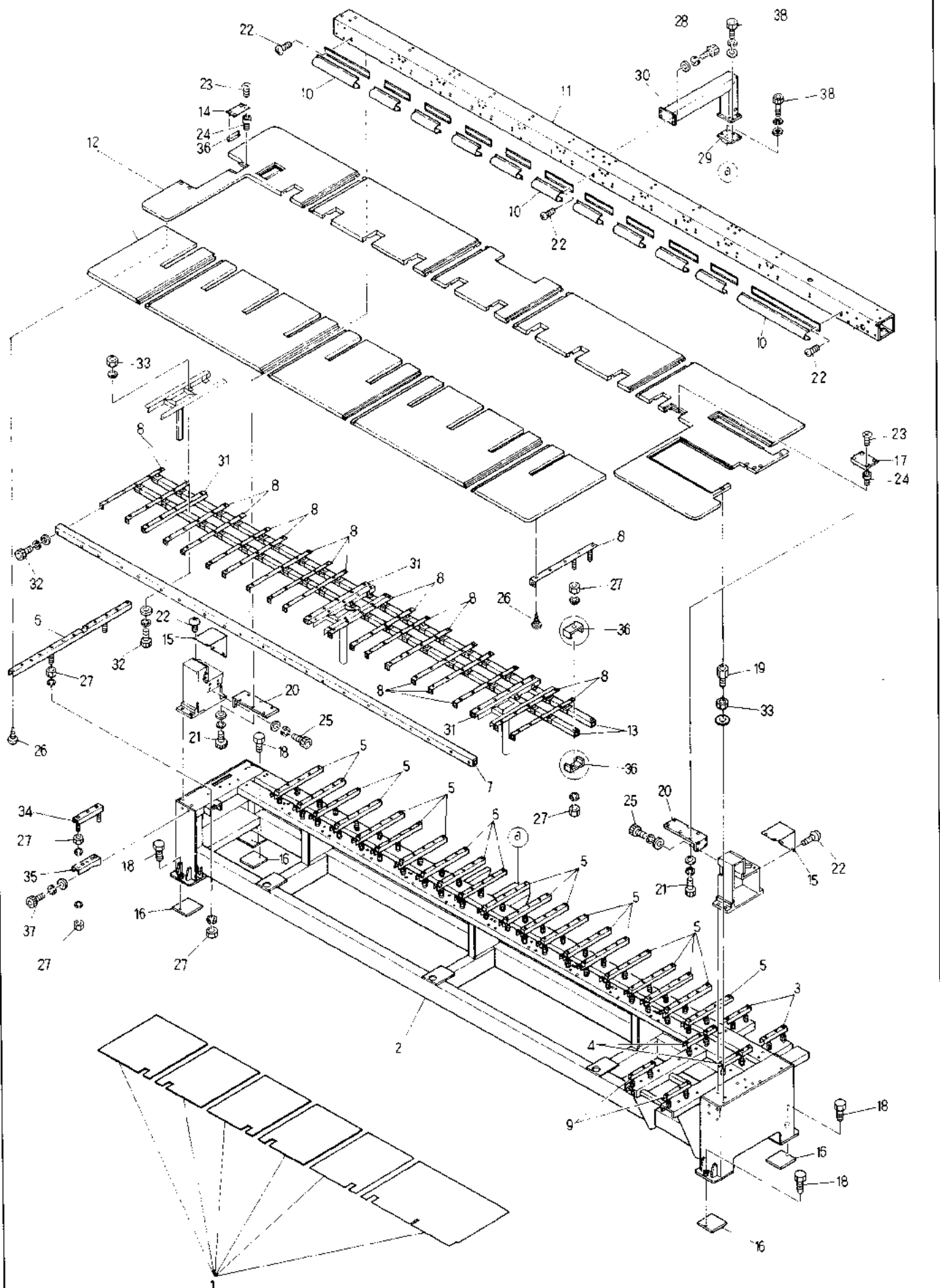
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Barudan

① Table • Frame <YN-10>

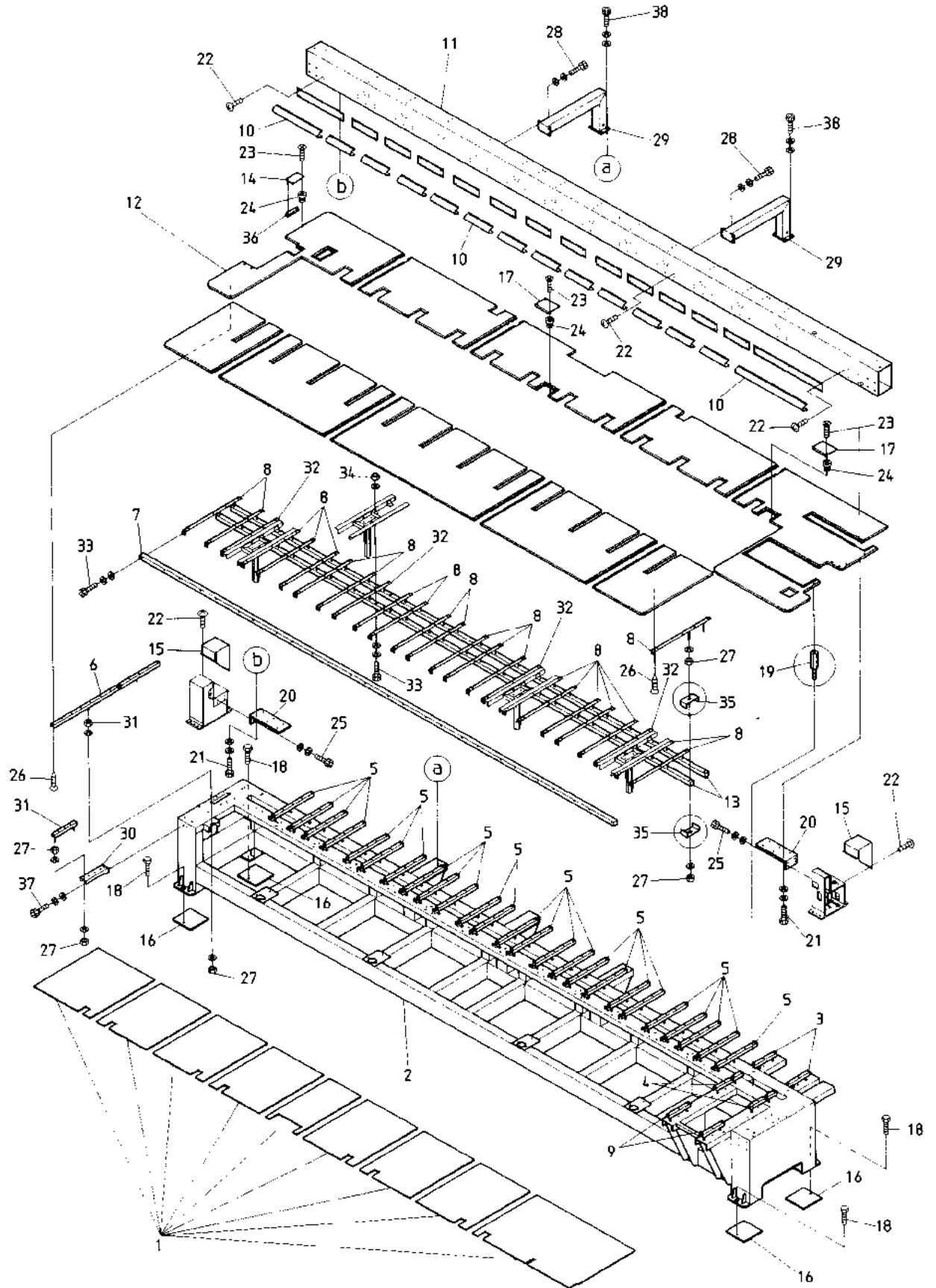


MODEL BENSHE-YN

① Table · Frame <YN-10>

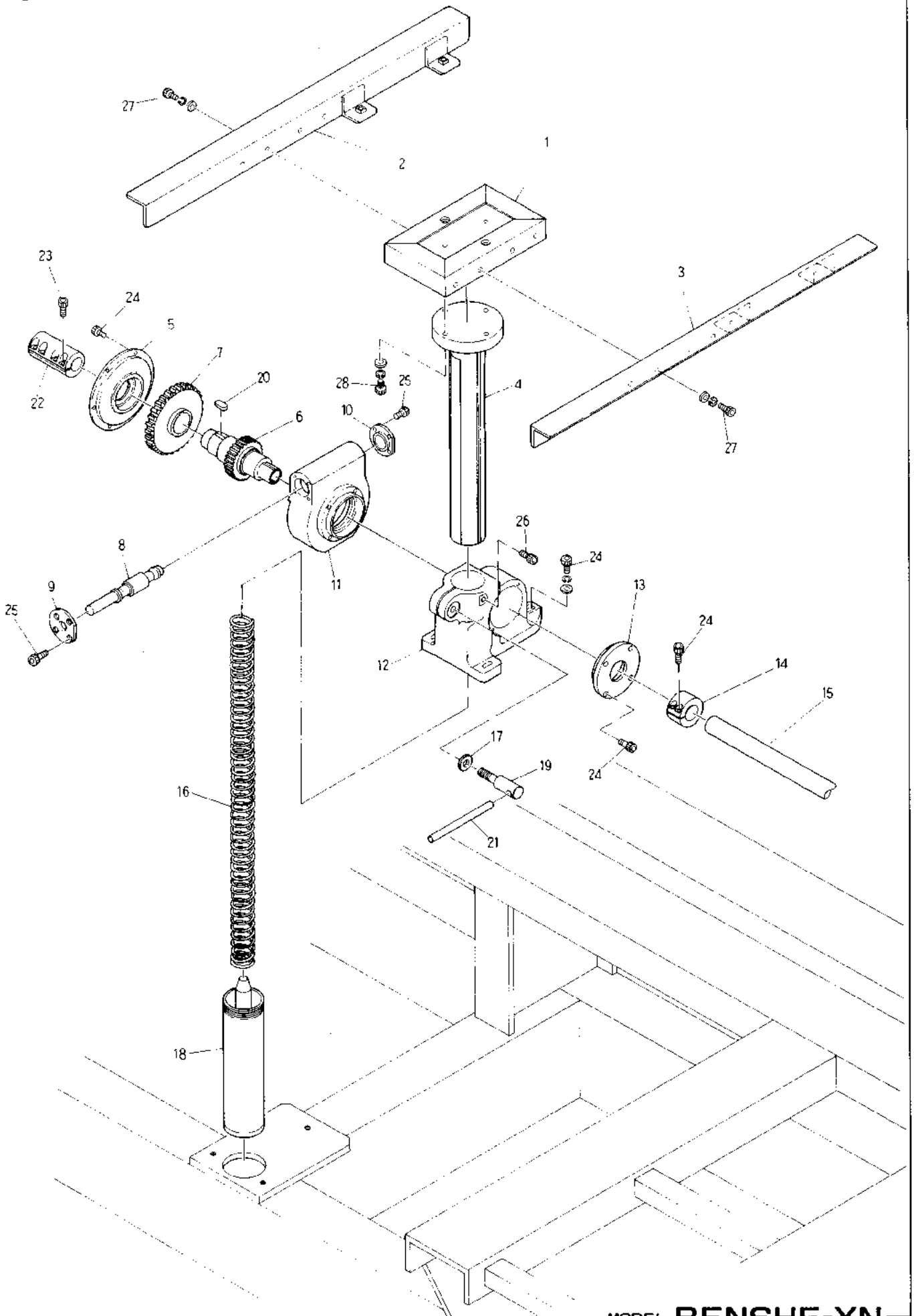
(※Change the by machine type)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1		Shelf board (BENSHE-YN10 450 × 520/520)	1	※
2		Leg frame (BENSHE-YN10 450 × 520/520)	1	
3	HS140170	Table support (300L)	2	
4	HS140140	Table support (380L)	2	※
5	HS140160	Table support (605L)	21	
6	HS140150	Table support (1500L)	1	
7	HS140680	Table support (F) (BENSHE-YN-10 450 × 520 /520)	1	※
8	HS140290	Table support [I] R	19	※
9	HS140010	Table support (310L)	2	※
10	1SHS10520520K	Upper shaft cover set (NSHE-10 P520/520)	1	※
11		Bridge	1	
12		Table (BENSHE-YN-10 450 × 520 /520)	1	※
13		Table support (L)	2	
14	HP321110	Lower connecting cuppling cover	1	
15	HS130010	Bridge cover	2	※
16	HP120030	Base plate (200 × 200 × t1)	4	
17	HS510000	Position corder cover (BENSHE)	1	※
18		Hex. bolt M20 × 65		
19	HP140170	Table support bolt	1	
20	HP130020	Bridge support	2	
21		Hex. socket bolt M10 × 40		
22		Truss socket screw M5 × 10		
23		Truss socket flush screw M4 × 8		
24		Rag nut (C) M4		
25		Hex. socket bolt M10 × 30		
26		Truss screw flush screw 5.1 × 25		※
27		Hex. nut 3/8		
28		Hex. socket bolt M8 × 25		
29	HS130040	Bridge support base (center)	1	
30	HB13001180	Bridge support (center) H stroke 800	1	
31	HS140540	Table support [I] R	3	
32		Hex. socket bolt M8 × 20		
33		Hex. nut M8		
34	HP140111	Table support (310L)	1	※
35	HP140120	Table support blacket	1	
36	HS140560	Table support fixing blacket	88	
37		Hex. socket bolt M8 × 30		
38		Hex. socket bolt M8 × 20		



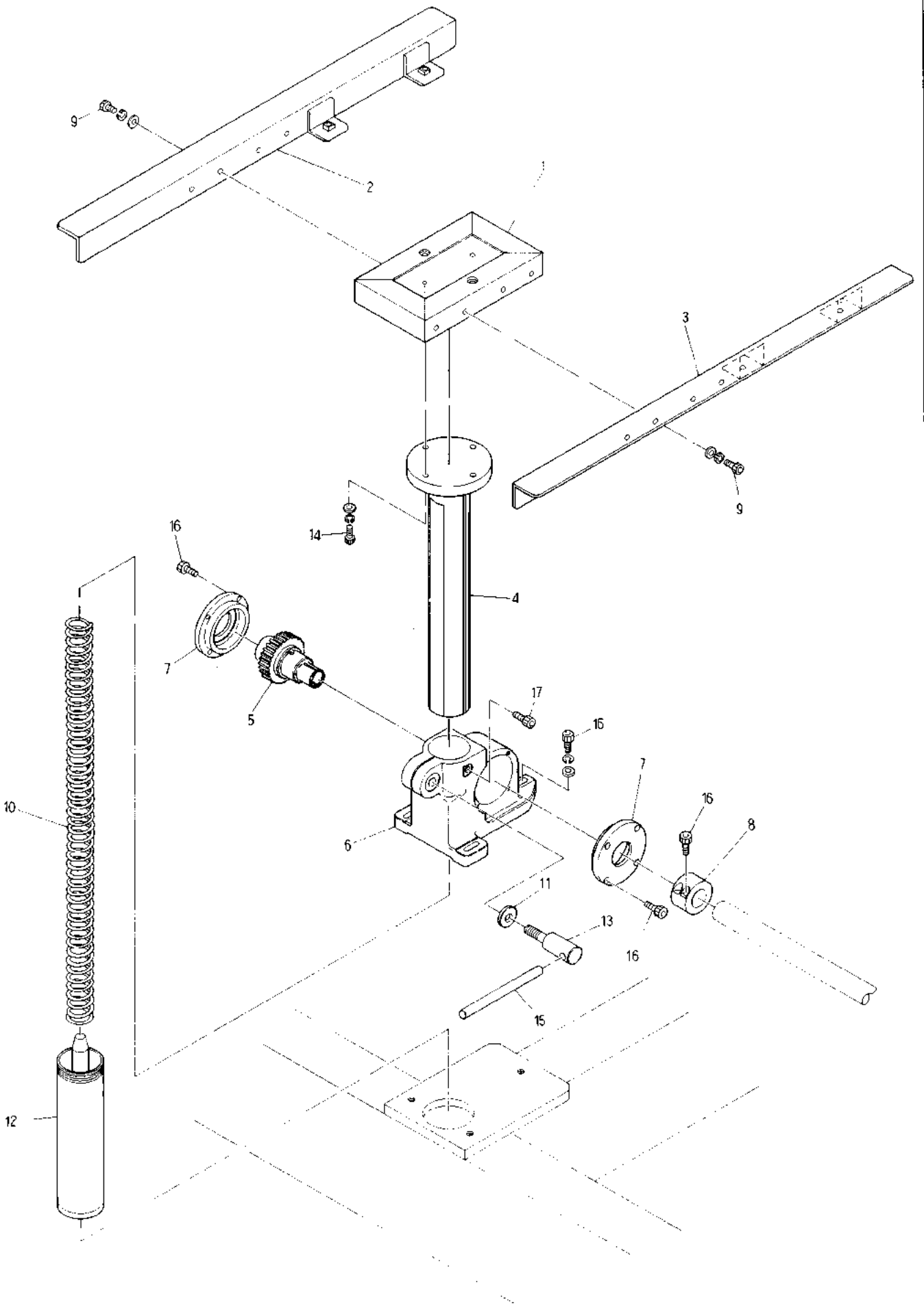
① Table - Frame <YN-12> (※Change the LIST No. by machine type)

LIST	LIST No.	DESCRIPTION	Q'TY	REMARK
1	IKHN1252052045H	Shelf board (BENSHE-YN-12 450×520 /520)	1	※
2	IAHN1252052045H	Leg frame (BENSHE-YN-12 450×520 /520)	1	
3	HS140170	Table support (300L)	2	
4	HS140140	Table support (380L)	2	※
5	HS140160	Table support (605L)	25	
6	HS140150	Table support (1500L)	1	
7	HS140590	Table support (F) (BENSHE-YN-12 450×520 /520)	1	※
8	HS140290	Table support (I) R	22	※
9	HS140010	Table support (310L)	2	※
10	1SHS12520520K	Upper shaft cover set (NSHE-12 P520/520)	1	※
11		Bridge	1	
12	1BHN1252052045H	Table (BENSHE-YN-12 450×520 /520)	1	※
13		Table support (R)	2	
14	HP321110	Lower shaft connecting coupling cover	1	
15	HS130010	Bridge cover	2	※
16	HP120030	Base plate (200×200×t1)	4	
17	HS510000	Position corder cover (BENSHE)	2	※
18		Hex. bolt M20×65		
19	HP140170	Table support bolt	3	
20	HP130020	Bridge support	2	
21		Hex. socket bolt M10×40		
22		Hex. socket truss screw M5×10		
23		Truss screw M4×8		
24		Wag nut (C) M4		
25		Hex. socket bolt M10×30		
26		Truss flush screw 5.1×25		※
27		Hex. nut 3/8		
28		Hex. socket bolt M8×25		
29	HS130000	Bridge support (Center)	2	
30	HP140120	Table support bracket	1	
31	HP140111	Table support (310L)	1	
32	HS140540	Table support (I) L	4	
33		Hex. socket bolt M8×70		
34		Hex. nut M8		※
35	HS140560	Table support fixing bracket	104	
36	HV310030	Bearing cover	1	
37		Hex. socket bolt M8×30		
38		Hex. socket bolt M8×20		



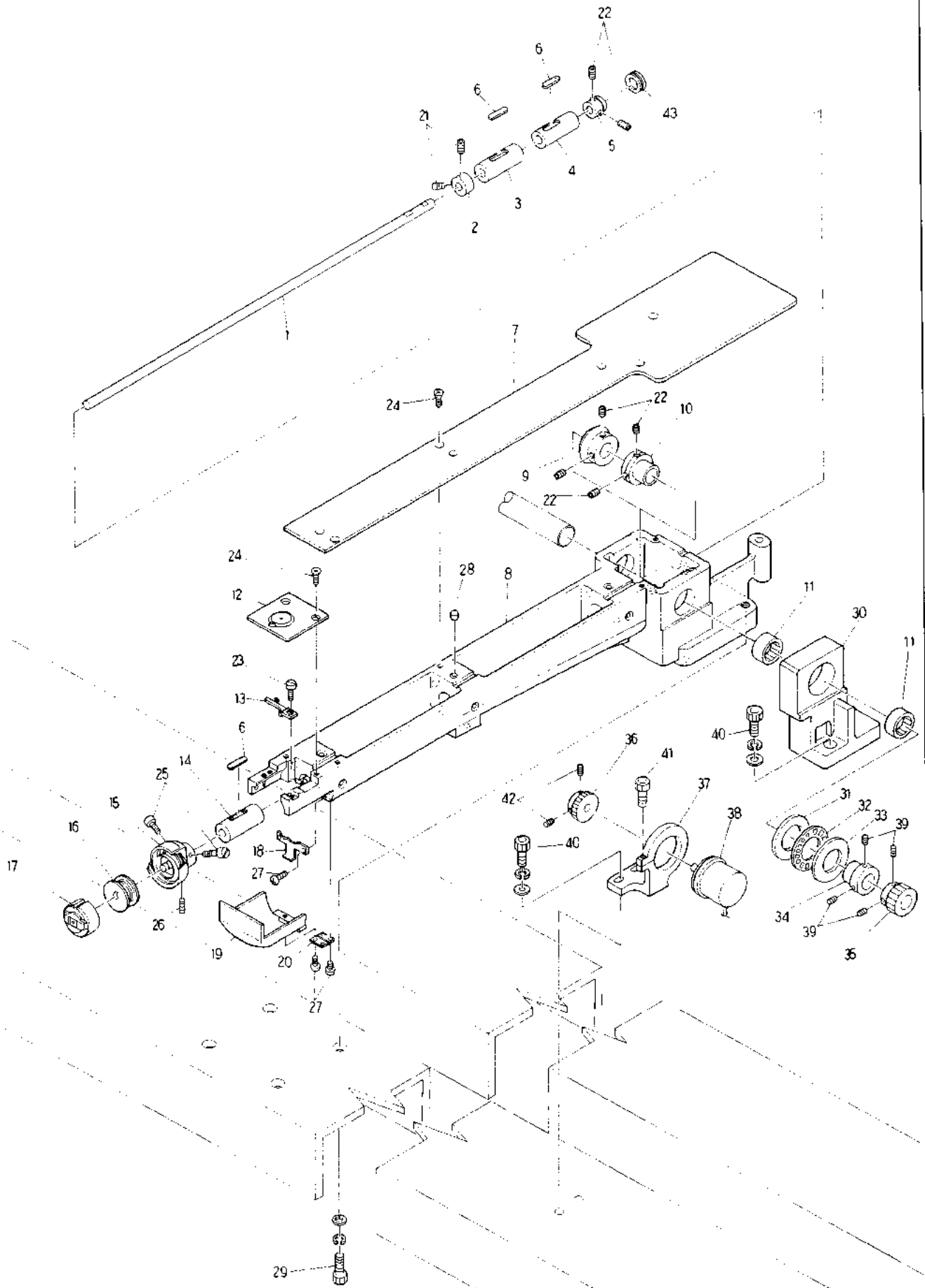
② Table lifter mechanism I (Master machine)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HS140960	Lifter connecting base	1	
2	HS140980	Lifter connecting stay (L)	1	
3	HS140970	Lifter connecting stay (R)	1	
4	HS140900	Center shaft	1	
5	HS140820	Worm cover	1	
6	HS140930	Pinion gear s'ssy (Master)	1	
7	HS140890	Worm wheel	1	
8	HS140800	Worm shaft	1	
9	HS140840	Worm side cover No.2	1	
10	HS140830	Worm side cover No.1	1	
11	HS140810	Worm case	1	
12	HS140700	Lifter (Master)	1	
13	HS140870	Side cover	1	
14	HS140720	Slit collar	1	
15	HS141000	Lifter connecting shaft 12-P520(25-5500)	1	
	HS141020	Lifter connecting shaft 10-P520(25-4500)	1	
16	HS140880	Lifter auxiliary spring	1	
17	HS140860	Washer	1	
18	HS140770	Auxiliary spring case	1	
19	HS140730	Clamp	1	
20		Crosscut parallel key 7×7×25	2	
21	HS140850	Handle	1	
22	HS140990	Lifter connecting shaft coupling	2	
23		Hex. socket bolt M8×20		
24		Hex. socket bolt M6×20		
25		Hex. socket bolt M5×12		
26		Hex. socket bolt M10×25		
27		Hex. socket bolt M8×25		
28		Hex. socket bolt M8×35		



③ Table lifter mechanism II (Sub machine)

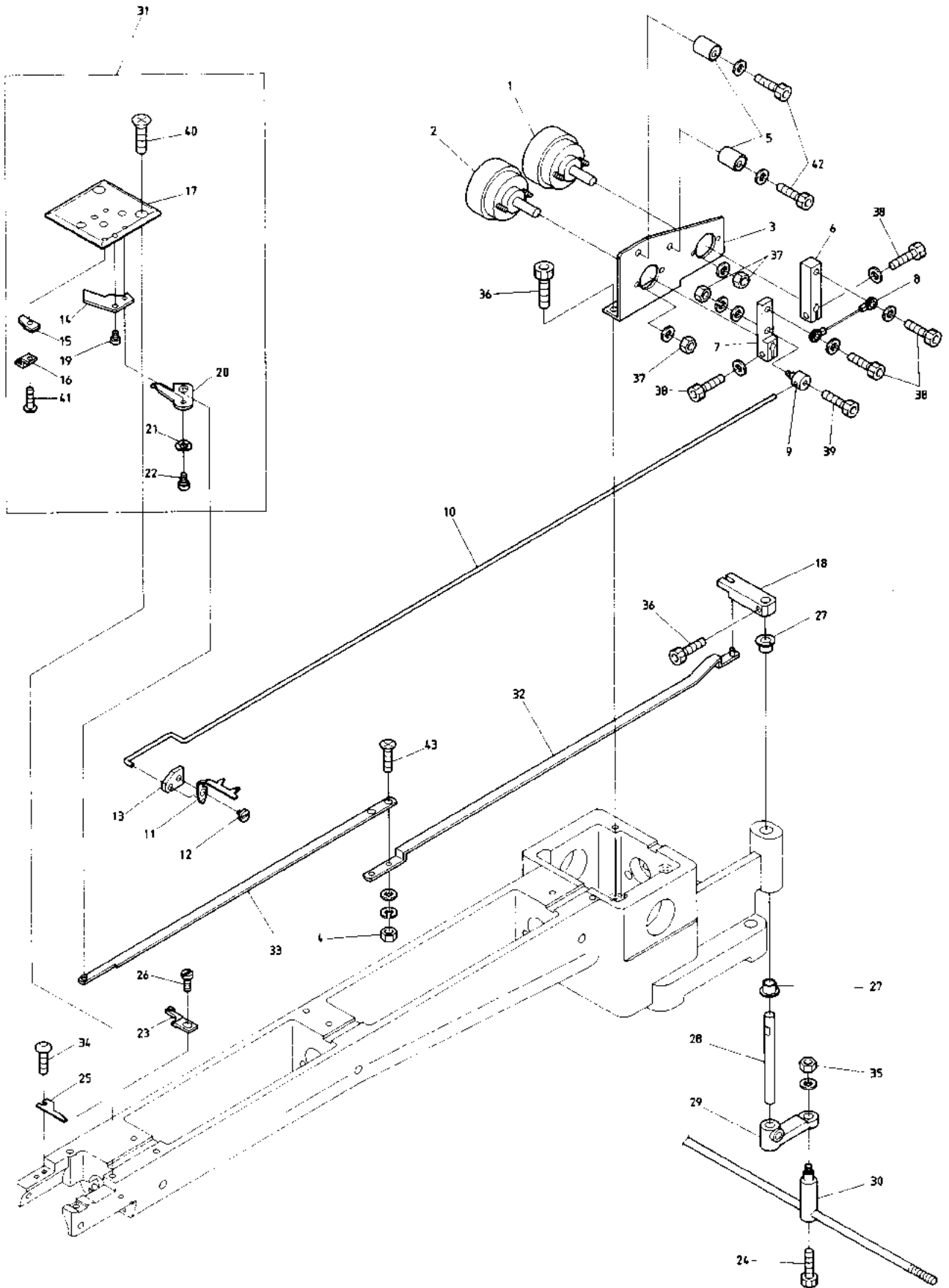
ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HS140960	Lifter connecting base	2	YN-1 ... 3
2	HS140980	Lifter connecting stay (L)	2	YN-1 ... 3
3	HS140970	Lifter connecting stay (R)	2	YN-1 ... 3
4	HS140900	Center shaft	2	YN-1 ... 3
5	HS140780	Pinion gear a'ssy (Sub)	2	YN-1 ... 3
6	HS140710	Lifter (Sub)	2	YN-1 ... 3
7	HS140870	Side cover	4	YN-1 ... 3
8	HS140720	Slit collar	2	YN-1 ... 3
9		Hex. socket bolt M8×25		
10	HS140880	Lifter auxiliary spring	2	YN-1 ... 3
11	HS140860	Washer	2	YN-1 ... 3
12	HS140770	Auxiliary spring case	2	YN-1 ... 3
13	HS140730	Clamp bolt	2	YN-1 ... 3
14		Hex. socket bolt M8×35		
15	HS140850	Handle	2	YN-1 ... 3
16		Hex. socket bolt M6×20		
17		Hex. socket bolt M10×25		



④ Bed assy

(H=Head Q'TY)

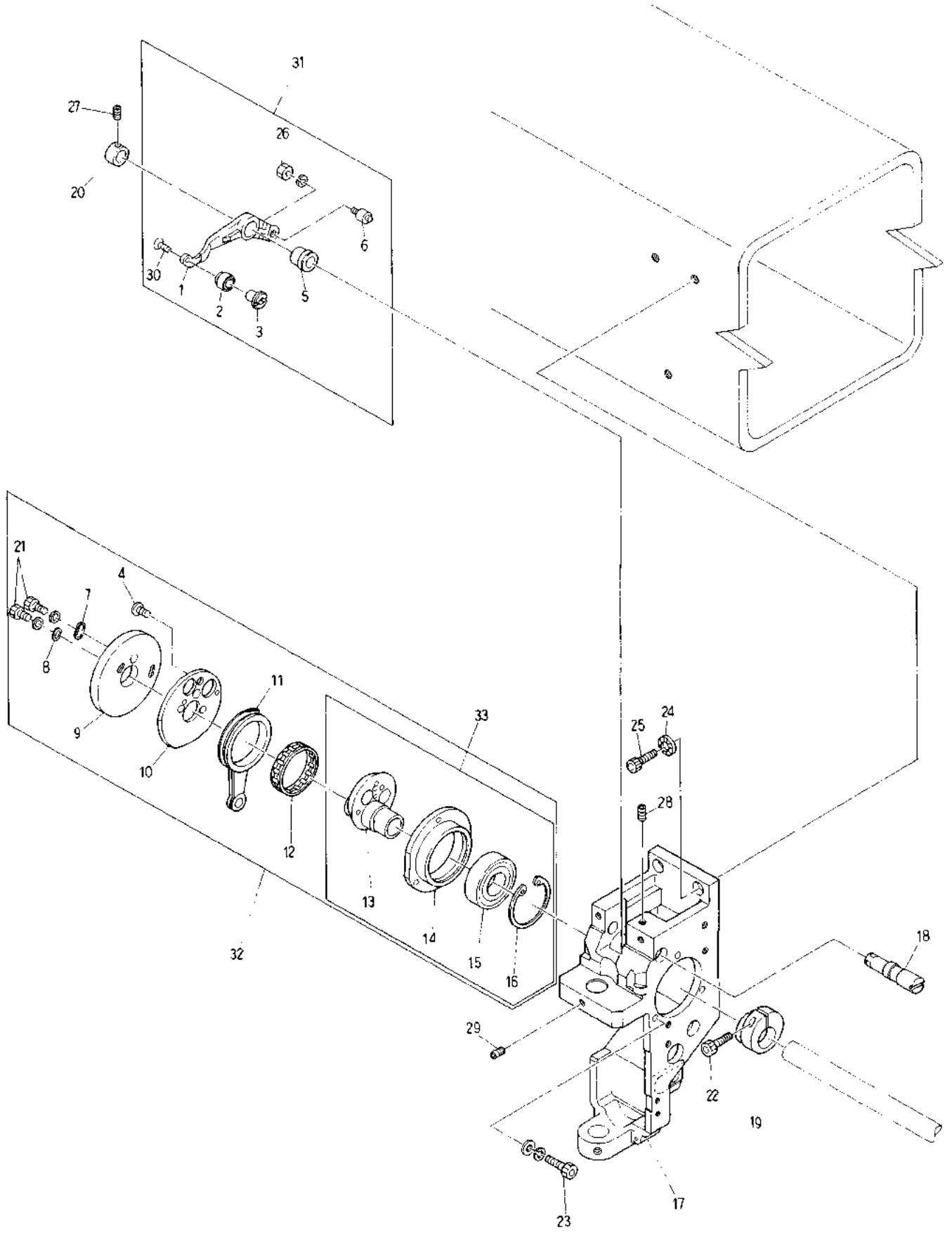
ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HS210020	Lower shaft	H×1	
2	HP220680	Lower shaft collar	H×1	
3	KF220230	Lower shaft metal (Front)	H×1	
4	KF220220	Lower shaft metal (Rear)	H×1	
5	HP220712	Lower shaft gear (S)	H×1	
6	KL220140	Oil felt C (5×25×20)	H×3	
7	HS210040	Bed cover	H×1	
8	HS210011	Barrel bed	H×1	
9	HP321082	Lower connecting gear (L)	H×1	
10	HP321090	Lower Shaft collar	H×1	
11	A9011111	Needle bearing (TLA-2012Z)	H×2	
12	MA250131	Throat plate	H×1	
13	KC220650	Rotating hook bobbin case holder position bracket	H×1	
14	KF220240	Vertical shaft metal (Upper)	H×1	
15	HB220010	Rotating hook HSM-A(M2QTS)	H×1	
16	KF220421	Bobbin HSM(DBM)	H×1	
17	KF220302	Bobbin case BC-DBM (22)-NBL5	H×1	
18	KC250482	Barrel bed cover push spring	H×1	
19	HS210030	Barrel bed cover	H×1	
20	A9012027	Butterfly nut (TH-TM-72)	H×1	
21		Hex. socket bolt M4×5		
22		Hex. socket bolt M5×6		
23	A9012007	Screw (SM11/64 40×10) Cylinder	H×1	
24	KF250900	Throat set screw (SM11/64 40×7)	H×6	
25		Screw (SM11/64 40×5)		
26		Screw (SM11/64 40×4)		
27		Pan screw M3×6		
28	KL220120	Oil felt A	H×3	
29		Hex. socket bolt M8×25		
30	HB320030	Rotating hook shaft connecting bearing housing (middle)	1	
31	A9010101	Thrust bearing (WS81104)	1	
32	A9010100	Thrust bearing (AXK1104)	1	
33	A9010102	Thrust bearing (GS81104)	1	
34	HH481970	Pulse motor connecting shaft collar	1	
35	HP321710	Encoder driving gear No1	1	
36	HP321720	Encoder driving gear No2	1	
37	HP331922	Encoder support	1	
38	KN511020	Position coder (for machine 051)	1	
39		Hex. socket set screw M5×6		
40		Hex. socket bolt M5×18		
41		Hex. socket set screw M4×18		
42		Hex. socket set screw M1×8		
43	A9014059	Gromet MG (MG-1)	H×1	



⑤ Thread cutting mechanism I

(H=Head Q'TY)

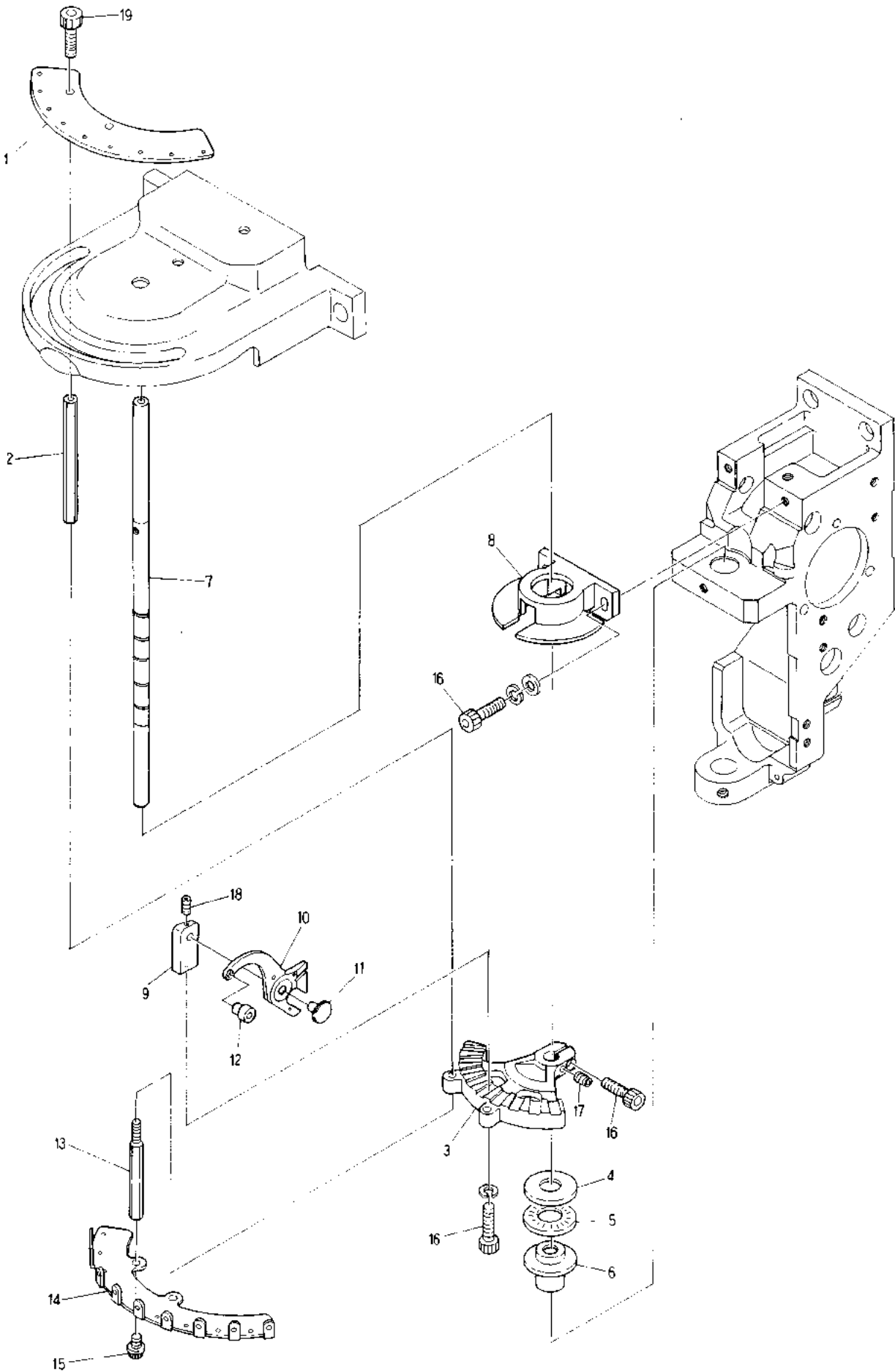
ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	A 9 0 5 6 0 1 2	Rotary solenoid (3EL25 33×3×8×9)	H×1	
2	A 9 0 5 6 0 0 8	Rotary solenoid (3EL25 35×3×8×9)	H×1	
3	HS 2 1 0 0 6 0	Solenoid stay	H×1	
4		Hex. nut		
5	KN 2 7 2 4 0 0	Stopper eccentric	H×2	
6	KC 2 7 1 9 5 0	Solenoid lever B	H×1	
7	KC 2 7 1 9 4 0	Solenoid lever A	H×1	
8	KL 2 7 0 3 6 0	Drive rope	H×1	
9	HS 2 1 0 0 8 0	Connecting clamp	H×1	
10	HS 2 1 0 0 7 0	Hook driving rod	H×1	
11	HS 2 1 0 1 4 2	Hook	H×1	
12	KC 2 7 1 0 0 1	Upper knife turning shaft	H×1	
13	HS 2 1 0 0 5 0	Stay	H×1	
14	KC 2 7 0 9 6 0	Fixed knife	H×1	
15	HT 2 7 0 1 6 0	Lower thread support stay (Upper)CMP	H×1	
16	HT 2 7 0 1 8 0	Lower thread support stay (Lower)CMP	H×1	
17	KL 2 7 0 3 8 0	Throat plate	H×1	
18	HS 2 1 0 1 0 0	Lower knife driving lever (Upper)	H×1	
19	KC 2 7 0 9 8 0	Set screw (fixing knife)	H×1	
20	KC 2 7 0 9 5 0	Lower knife	H×1	
21	A 9 0 1 3 0 4 5	Wave washer (WW5)	H×1	
22	KC 2 7 0 9 7 0	Lower knife turning shaft	H×1	
23	KC 2 2 0 6 4 2	Rotating hook bobbin case holder position bracket	H×1	
24		Hex. socket bolt M4×8		
25	KB 2 7 0 0 1 0	Upper knife	H×1	
26	A 9 0 1 2 0 0 7	Screw (SM11/64 40×10) Cylinder	H×1	
27	A 9 0 1 1 1 7 3	DU bush (MB0606-12FDU)	H×2	
28	HS 2 1 0 0 9 0	Knife lever turning shaft	H×1	
29	KN 2 7 1 5 6 0	Knife lever	H×1	
30	MT 2 7 2 5 0 0	Connectig bar clamp	H×1	
31	KL 2 7 0 3 9 0	Throat plate a'ssy	H×1	
32	HS 2 1 0 1 2 0	Lower knife driving rod B	H×1	
33	HS 2 1 0 1 1 0	Lower knife driving rod A	H×1	
34		Hex, socket button bolt M3×6		
35		Hex. nut M1		
36		Hex, socket bolt M4×8		
37		Hex. nut M3		
38		Hex, socket bolt M4×10		
39		Hex, socket bolt M3×5		
40		Flush screw M3×3		
41		Pan screw M3×3		
42	HB 2 3 0 6 5 0	Flush screw (With adhesion)	H×2	
43		Flush screw		
44		Hex. nut M3		

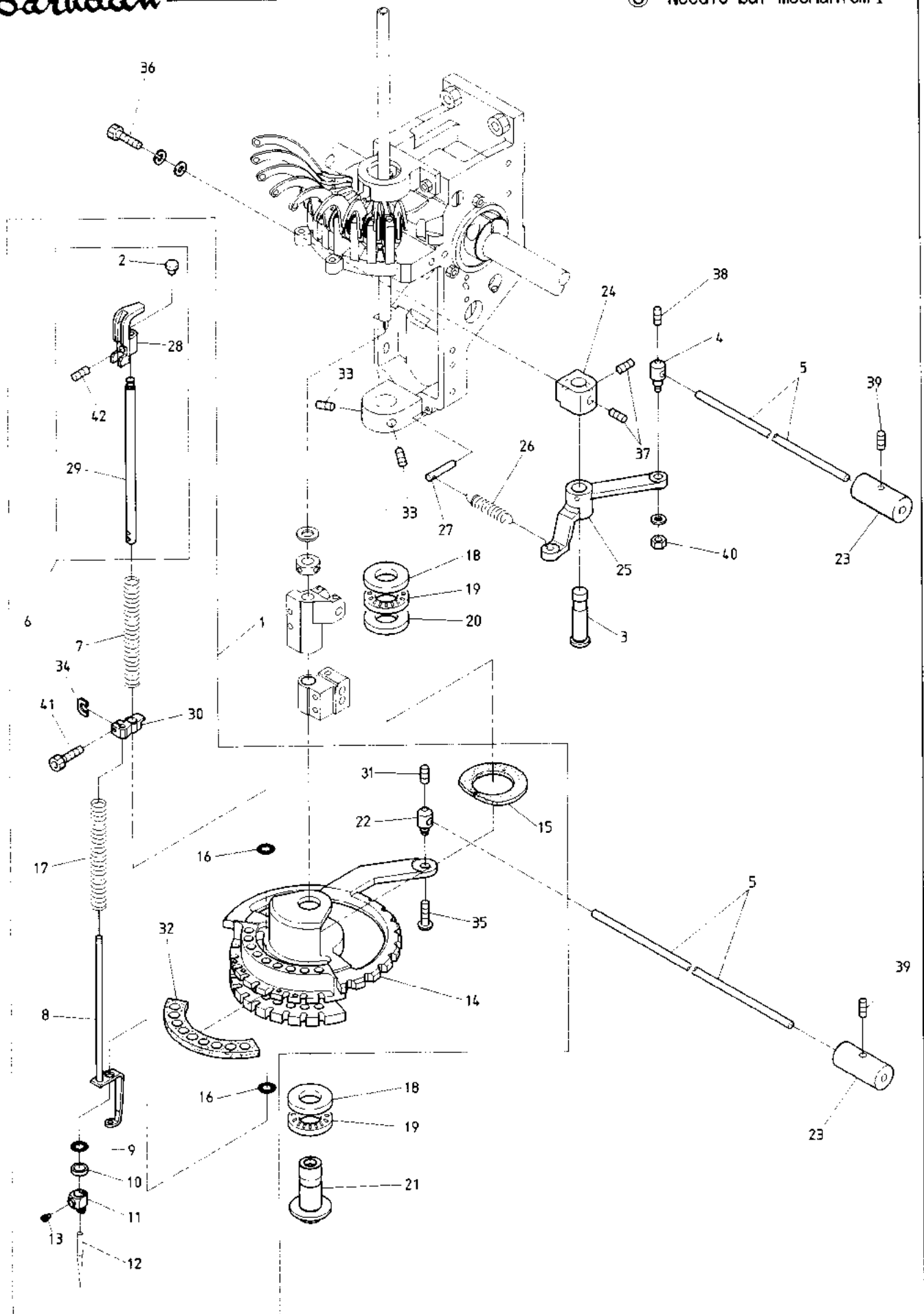


⑥ Take up lever a'ssy I

(H=Head Q'TY)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT230010	Take up lever driving lever	H×1	
2	HT230090	Take up lever driving roller bush	H×1	
3	HT230100	Take up lever driving roller	H×1	
4	HB230620	Take up lever driving roller shaft	H×1	
5	HB230111	Take up lever driving lever metal	H×1	
6	KF230500	Take up lever roller a'ssy	H×1	
7	HB230080	Washer for cam (2)	H×1	
8	HB230070	Washer for cam (1)	H×1	
9	HB230493	Take up lever cam H6	H×1	For small bobbin
10	HB230050	Take up lever cam base	H×1	For middle bobbin
11	HB230020	Needle bar crank rod	H×1	
12	HB230340	Needle roller (HL-8Q-K38×41×8.8)	H×1	
13	HB230011	Needle bar driving cam (Eccentric 9.2)	H×1	
14	HB230030	Hearing case	H×1	
15	A9010017	Ball Bearing case (6004ZZ)	H×1	
16	A9012163	C Ring φ42	H×1	
17	HB210010	Arm	H×1	
18	HT230091	Take up lever driving lever fixed pin	H×1	
19	HB230040	Needle bar driving fixed set collar	H×1	
20	HB230800	Driving lever set collar	H×1	
21		Hex. socket bolt M4×8		
22		Hex. socket bolt M5×18		
23		Hex. socket bolt M4×15		
24		Disc spring 8		
25		Hex. socket bolt M8×25		
26		Hex. nut 7/32		
27		Hex. socket set screw M4×4 (With adhesion)	H×1	
28		Hex. socket set screw M5×10		
29		Hex. socket set screw M4×8		
30	HB230650	Flush screw (With adhesion)	H×1	
31	HT230210	Take up lever driving lever a'ssy (YN Bridge)	H×1	
32	HB230691	Take up lever · Needle drive a'ssy	H×1	
33	HB230710	Needle bar driving cam a'ssy	H×1	

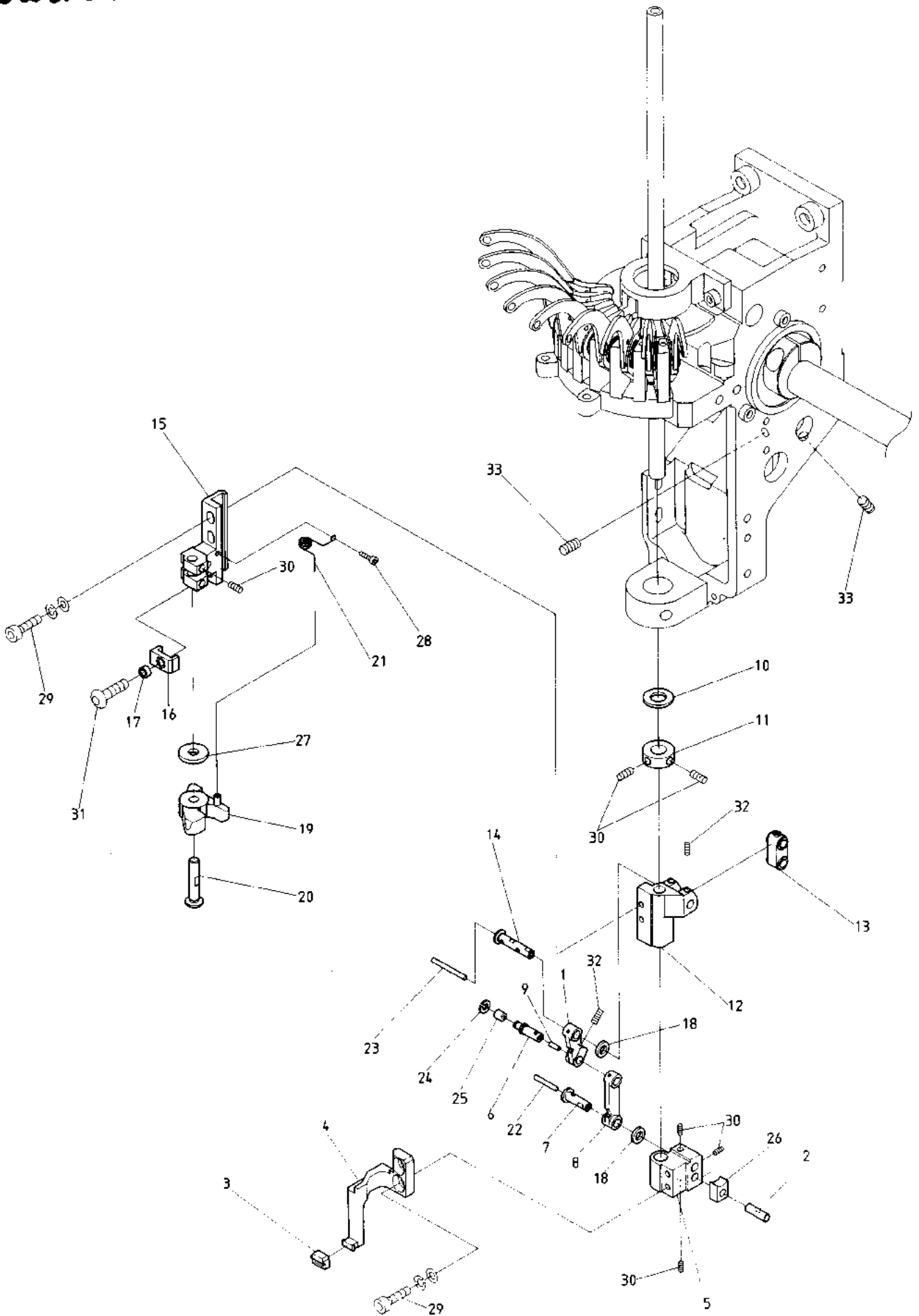




⑧ Needle bar mechanism I

(H=Head Q'TY)

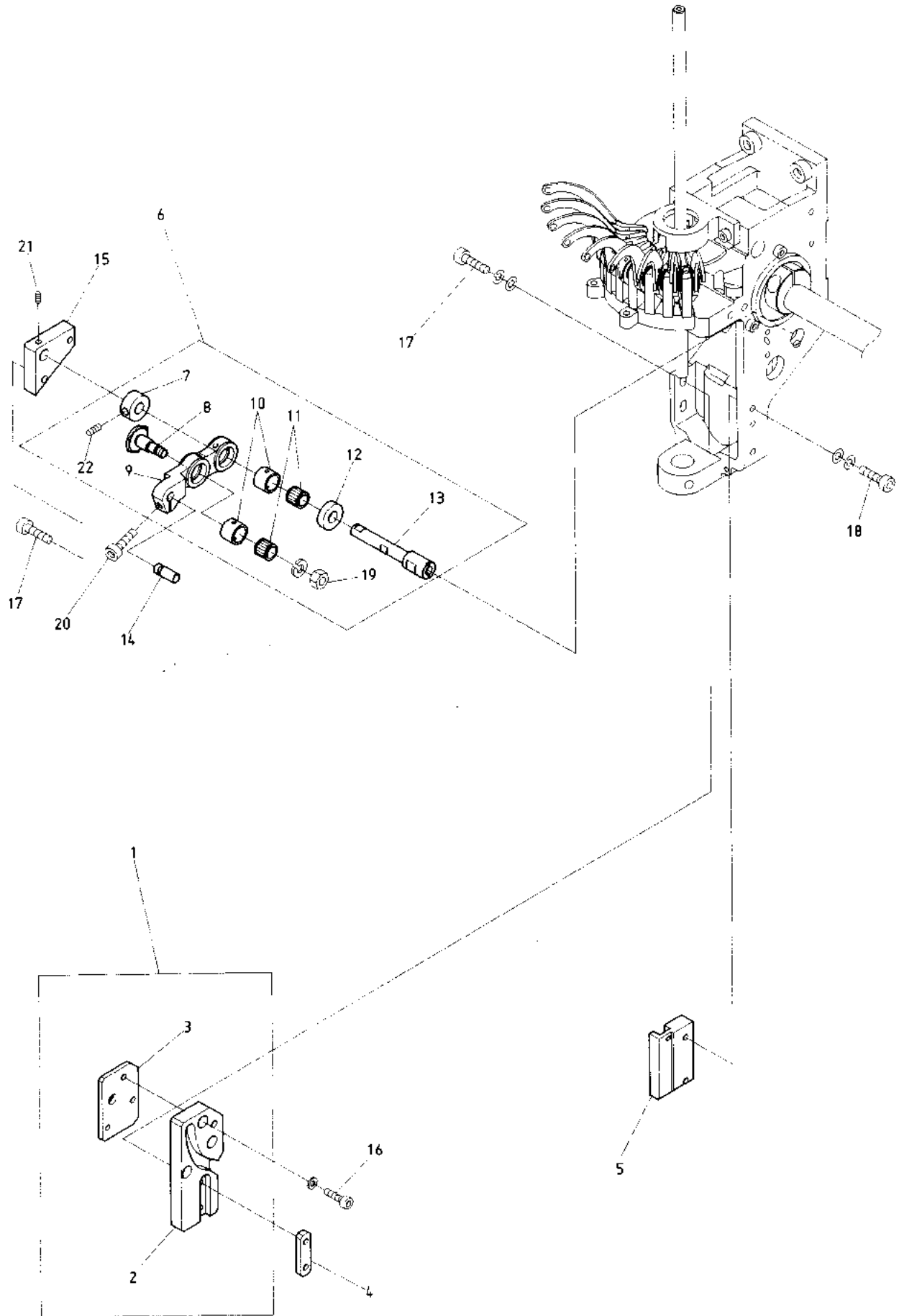
ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1		Turning plate a'ssy	H×1	
2	HT230130	Needle bar cap	H×9	
3	HB230190	Lock lever shaft	H×1	
4	KF230640	Lock connecting clamp	H×1	
5	KC330410	Lock connecting rod (L=2000)	6	
6	HT230810	Needle bar a'ssy	H×9	
7	HT230251	Needle bar spring (Upper)	H×9	
8	HT230141	Pressure 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 (BK-11)	H×9	
13	KF230240	Needle clamp screw (SM9/64)	H×9	
14	HT230570M	Turret plate	H×1	
15	HT230690	Turret 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	Turret 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	H×1	
32	HT230110	Turret felt	H×1	
33	A9012053	Hex. socket set screw (With steel ball) M6×0.7×8	H×2	
34	HT230261	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	H×9	
42		Hex. socket set screw M4×4 (With adhesion)		



⑨ Needle bar mechanism II

(H=Head Q' TY)

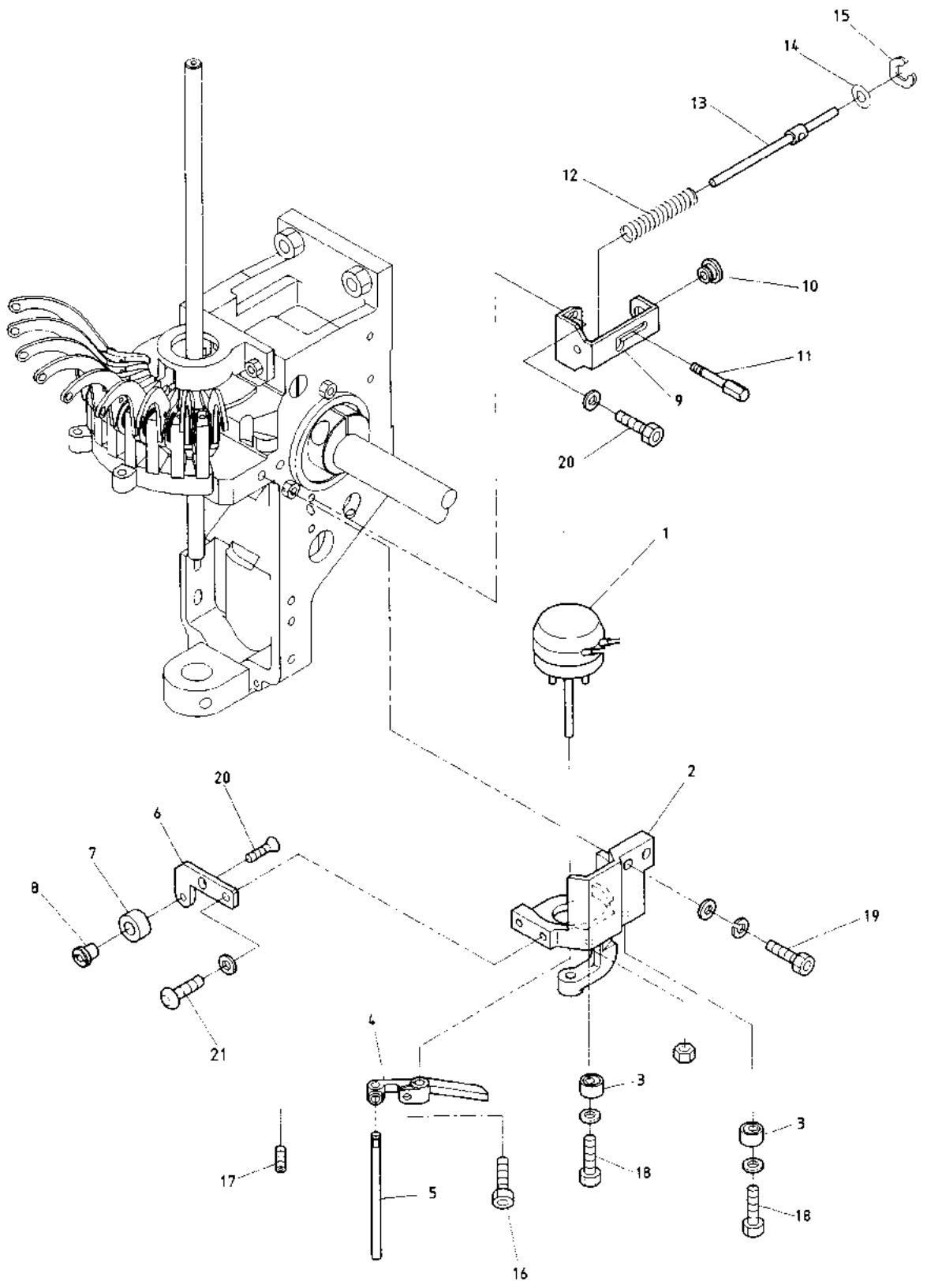
ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT230490	Link (Small)	H×1	
2	HT230320	Square ball pin	H×1	
3	HT230340	Pressure foot support rubber	H×1	
4	HT230370	Pressure foot support	H×1	
5	HT230500	Set slide block	H×1	
6	HT230450	Link roller joint pin	H×1	
7	HT230460	Link pin (Large)	H×1	
8	HT230480	Link (Large)	H×1	
9	HT230760	Oil core (8mm)	150	
10	A9012164	Thrust washer (R TW0815)	H×1	
11	HB230160	Driving shaft set collar	H×1	
12	HT230510	Needle bar driving block	H×1	
13	HT230200	Needle bar driving link	H×1	
14	HT230470	Link pin (Small)	H×1	
15	HT230290	Needle bar driving fixed base	H×1	
16	HT230520	Needle bar driving stopper	H×1	
17	A9012368	Spacer (Coil bush)	H×1	
18	HT230730	Shim-Ring ($\phi 10 \ t=0.3$)	H×2	
19	HT230530	Needle bar driving	H×1	
20	HT230280	Needle bar driving pin	H×1	
21	HT230560	Needle bar driving return spring	H×1	
22	HT230770	Oil core (20mm)	150	
23	HT230750	Oil core (30mm)	150	
24		E Ring ($\phi 3$)		
25	KF230530	Roller (For take up lever)	H×1	
26	HP231370	Square ball	H×1	
27	A9012967	Shim-Ring ($\phi 15 \ t=0.15$)	H×1	
28		Hex. socket bolt M2.5×6		
29		Hex. socket bolt M4×12		
30		Hex. socket set screw M4×4 (With nylon)		
31		Hex. socket button bolt M3×6		
32		Hex. socket set screw M4×6 (With nylon)		
33		Hex. socket set screw M5×10		

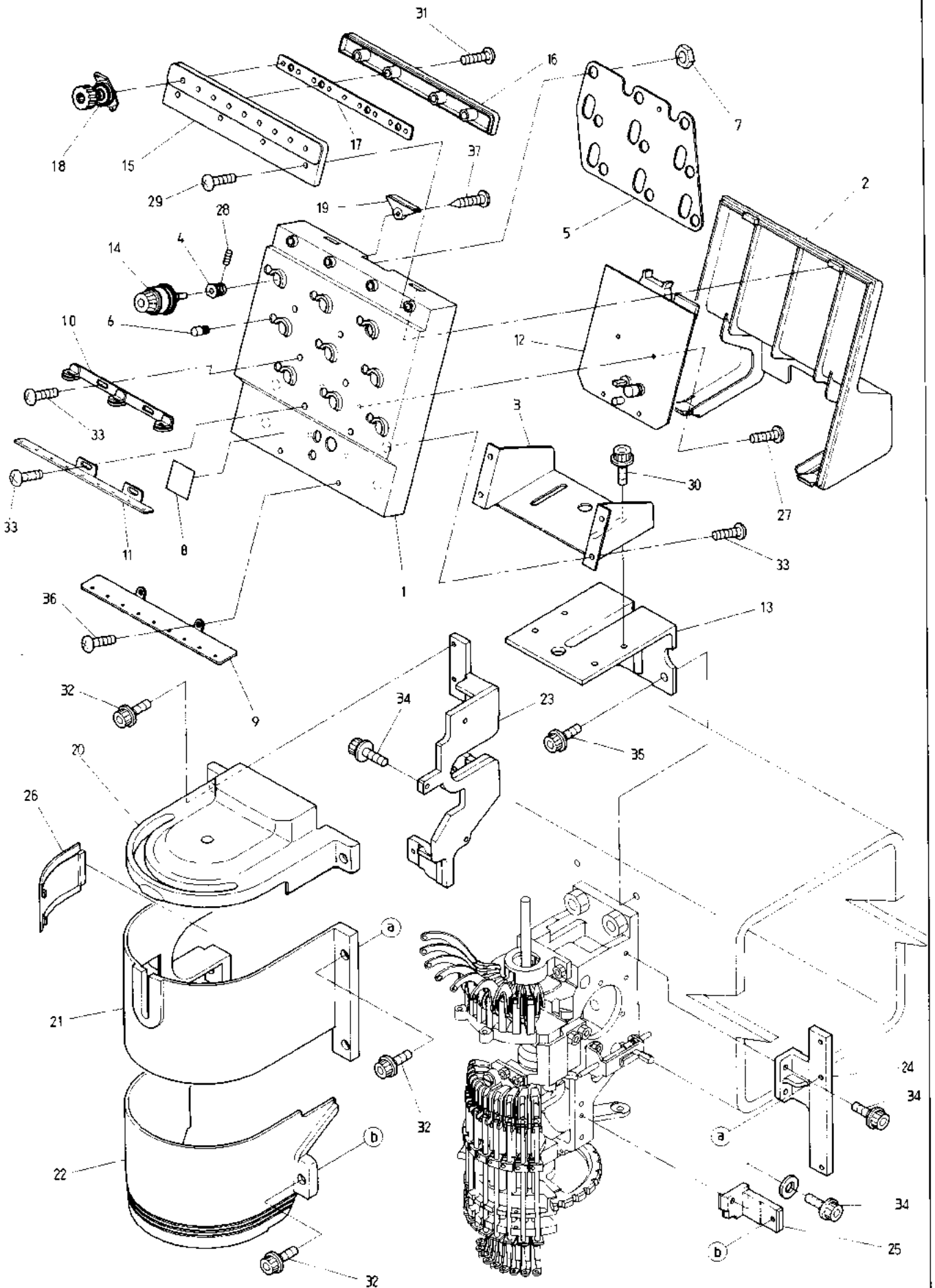


⑩ Needle bar mechanism III

(H=Head Q'TY)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT 2 3 0 6 1 0	Pressure foot cam assy	H × 1	
2	HT 2 3 0 7 2 0	Pressure foot cam (K2)	H × 1	
3	IIT 2 3 0 6 0 0	Cam back up plate	H × 1	
4	HT 2 3 0 3 8 0	Cam tap plate	H × 1	
5	HT 2 3 0 4 2 0	Guide plate	H × 1	
6	HB 2 3 0 7 0 1	Needle bar driving lever set	H × 1	
7	HB 2 3 0 2 7 1	Needle bar driving lever fixed pin set collar	H × 1	
8	HB 2 3 0 2 6 1	Needle bar driving lever connecting pin	H × 1	
9	HB 2 3 0 2 4 1	Needle bar driving lever	H × 1	
10	HB 2 3 0 3 5 0	Outer (OR11 × 14 × 10 × 1)	H × 2	
11	HB 2 3 0 3 6 0	Needle roller cage (80-K8 × 11 × 10)	H × 2	
12	HB 2 3 0 2 8 1	Needle bar driving lever fixed pin collar	H × 1	
13	HT 2 3 0 4 1 0	Needle bar driving lever fixed pin	H × 1	
14	HB 2 3 0 2 2 0	Needle bar driving lever pin (B)	H × 1	
15	HT 2 3 0 5 9 0	Lever pin block	H × 1	
16		Hex. socket bolt M4 × 8		
17		Hex. socket bolt M4 × 15		
18		Hex. socket bolt M4 × 18		
19		Hex. nut M6		
20		Hex. socket bolt M4 × 12 (With adhesion)		
21		Hex. socket set screw M4 × 4 (With nylon)		
22		Hex. socket set screw M5 × 5		

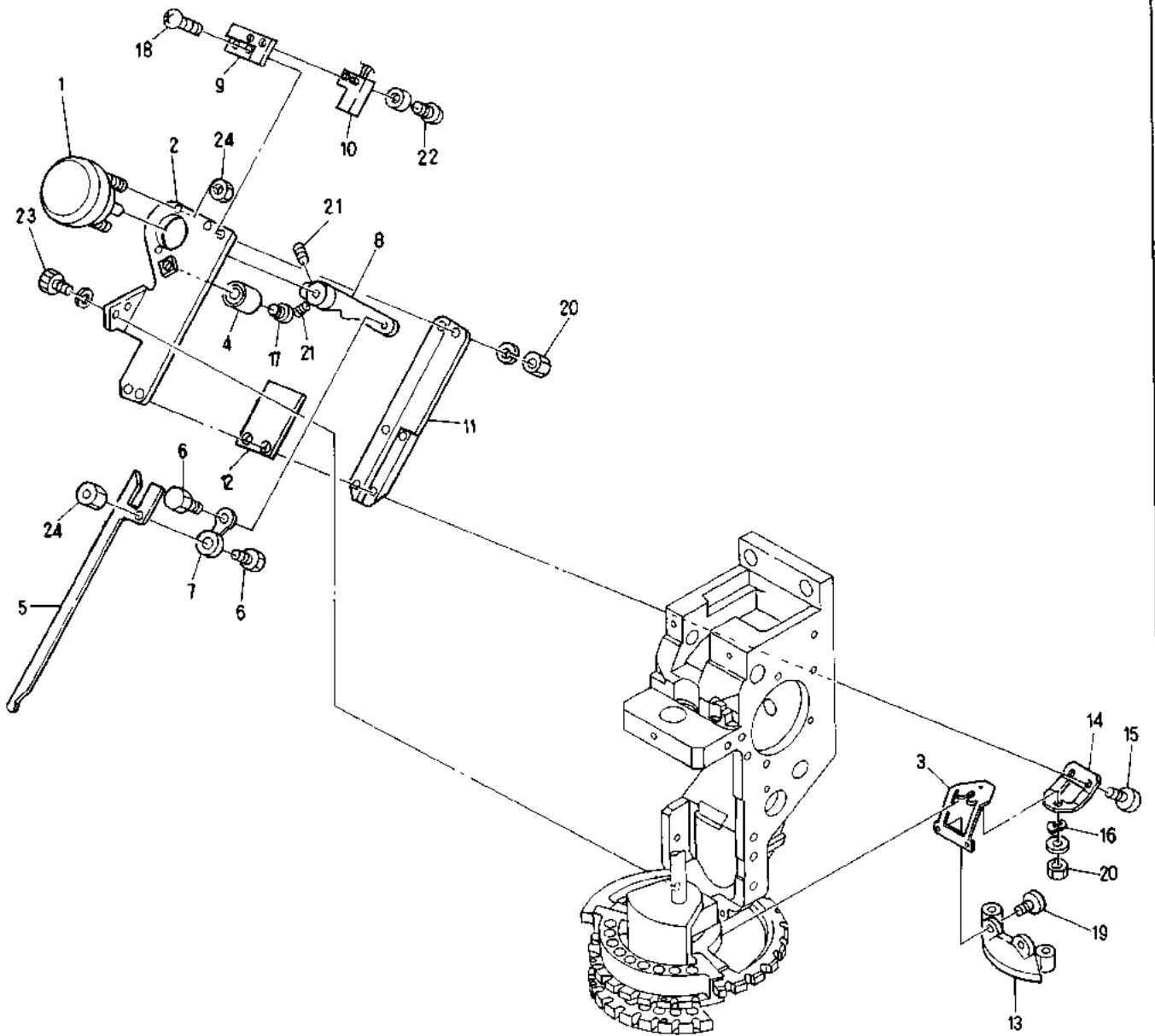




⑫ Thread guide mechanism

(H=Head Q'TY)

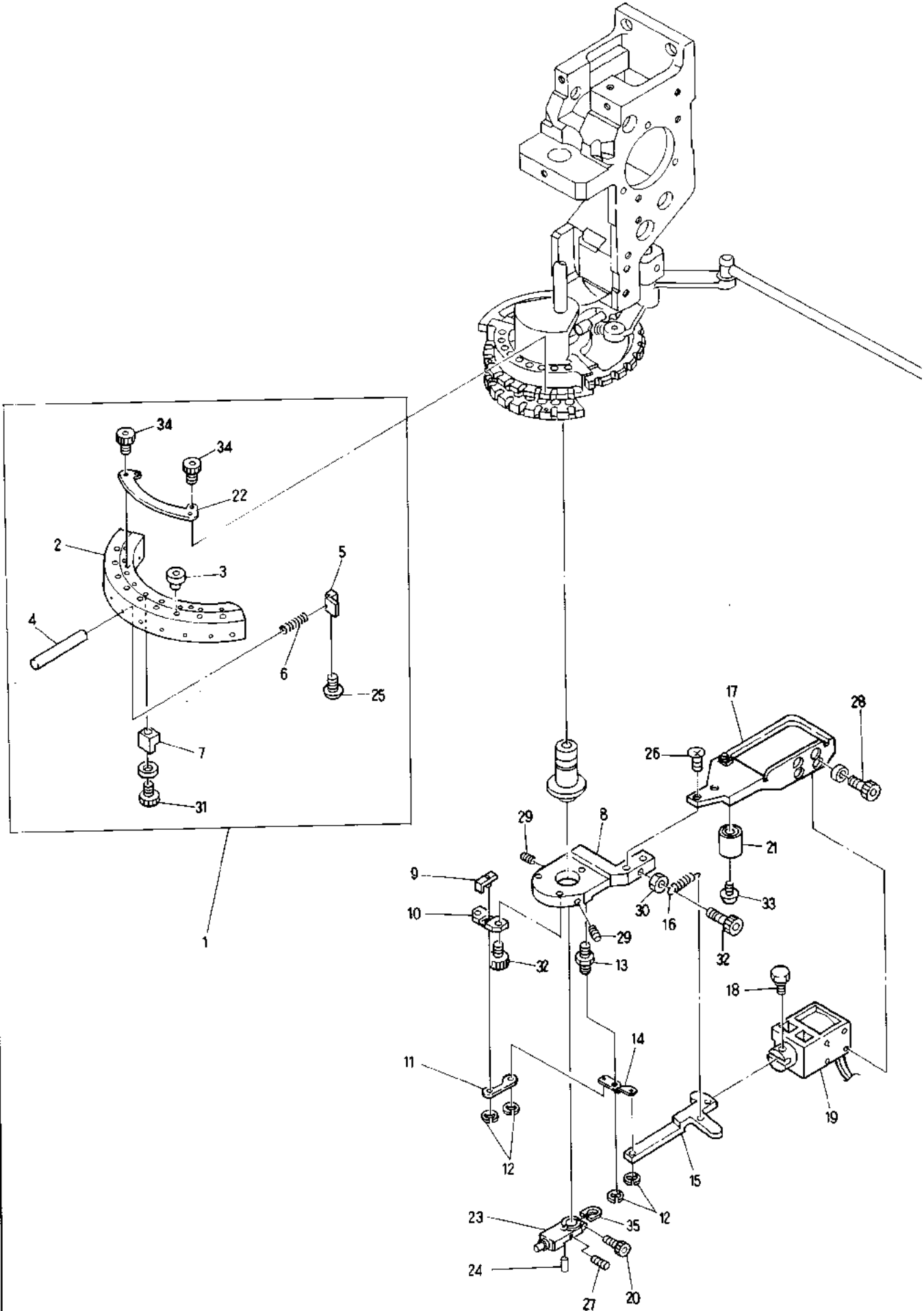
ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT240120	Tension base case	H × 1	
2	HT240130	Tension base cover	H × 1	
3	HT240140	Tension base	H × 1	
4	HT240150	Base	H × 9	
5	HT240160	Tension earth plate	H × 1	
6	HT240170	Upper thread detection pin	H × 9	
7	HT240180	SM-Nut	H × 9	
8		No. Label	H × 1	
9	HT240020	Second thread guide plate	H × 1	
10	HT240061	First thread guide	H × 2	
11	HT240390	Thread guide plate	H × 1	
12	EBY01110	4619 Head board	H × 1	
13	HB240300	Tension base bracket (Bridge (MSH))	H × 1	
14	HT240520	Dial type tension unit complete (YN)	H × 9	
15	HT240211	Upper thread guide fixing case	H × 1	
16	HT240220	Upper thread guide fixing cover	H × 1	
17	HT240230	Upper thread guide fixing base	H × 1	
18	HT240331	Thread guide for second tension (Pinless)		
19	HT240240	Blind cap	H × 1	
20	HB240200	Sewing head cover (A)	H × 1	
21	HT240460	Sewing head cover (B) (YN-2)	H × 1	
22	HT240220	Sewing head cover (C)	H × 1	
23	HT240430	Sewing head cover fixing bracket (A)	H × 1	
24	HB240240	Sewing head cover fixing bracket (B)	H × 1	
25	HT240440	Sewing head cover fixing bracket (C)	H × 1	
26	HT240470	Supply of oil cover	H × 1	
27		Pan screw B tight M3 × 8		
28		Hex. socket set screw M4 × 12		
29		Pan screw M3 × 6		
30		Hex. socket bolt with washer M5 × 10		
31		Tapping screw (II) M3 × 12		
32		Hex. socket bolt M4 × 6 (With washer)		
33		Truss screw M4 × 12		
34		Hex. socket flange bolt M4 × 10		
35		Hex. socket flange bolt M6 × 20		
36		Tapping truss screw M4 × 10		
37		Tapping screw M3 × 12		



⑬ Thread cutting mechanism II

(H=Head Q')

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	A9056018	Rotary solenoid (4ER67.5-31×8×9) Orange	H×1	
2	KL270081	Thread support base	H×1	
3	HT270070	Thread hook disk fixed stay	H×1	
4	KN272400	Eccentric stopper	H×1	
5	KL270101	Thread support hook	H×1	
6	KL270130	Lever connecting pin	H×1	
7	KL270120	Connecting plate	H×1	
8	KL270110	Thread support solenoid lever	H×1	
9	KL270260	Switch stay	H×1	
10	A9052028	Proximity switch (RS-603)	H×1	
11	KL270091	Thread support hook guide	H×1	
12	KL270450	Hook guide plate	H×1	
13	KL270440	Thread hook disc CMP	H×1	
14	HT270110	Rotary shaft fixed stay	H×1	
15		Truss screw M3×7		
16		Wave washer (For M5)	H×1	
17		Truss screw M4×16		
18		Truss screw M3×10		
19		Truss screw M3×4		
20		Hex. nut M3		
21		Hex. socket set screw M1×8		
22		Truss screw M3×6		
23		Hex. socket bolt M1×12		
24		Hex. nut M1		

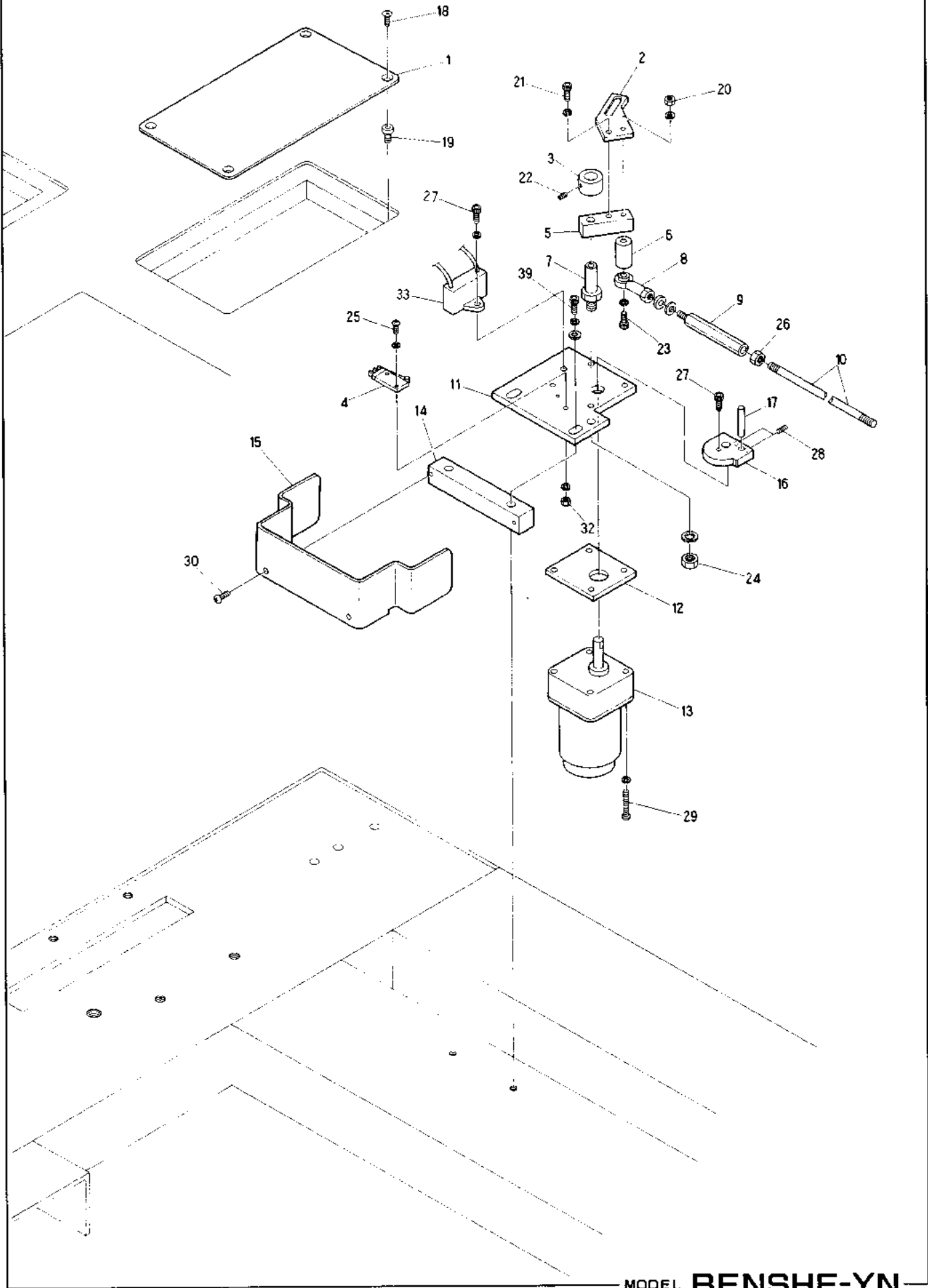


MODEL BENSHE-YN

⑭ Thread cutting mechanism III

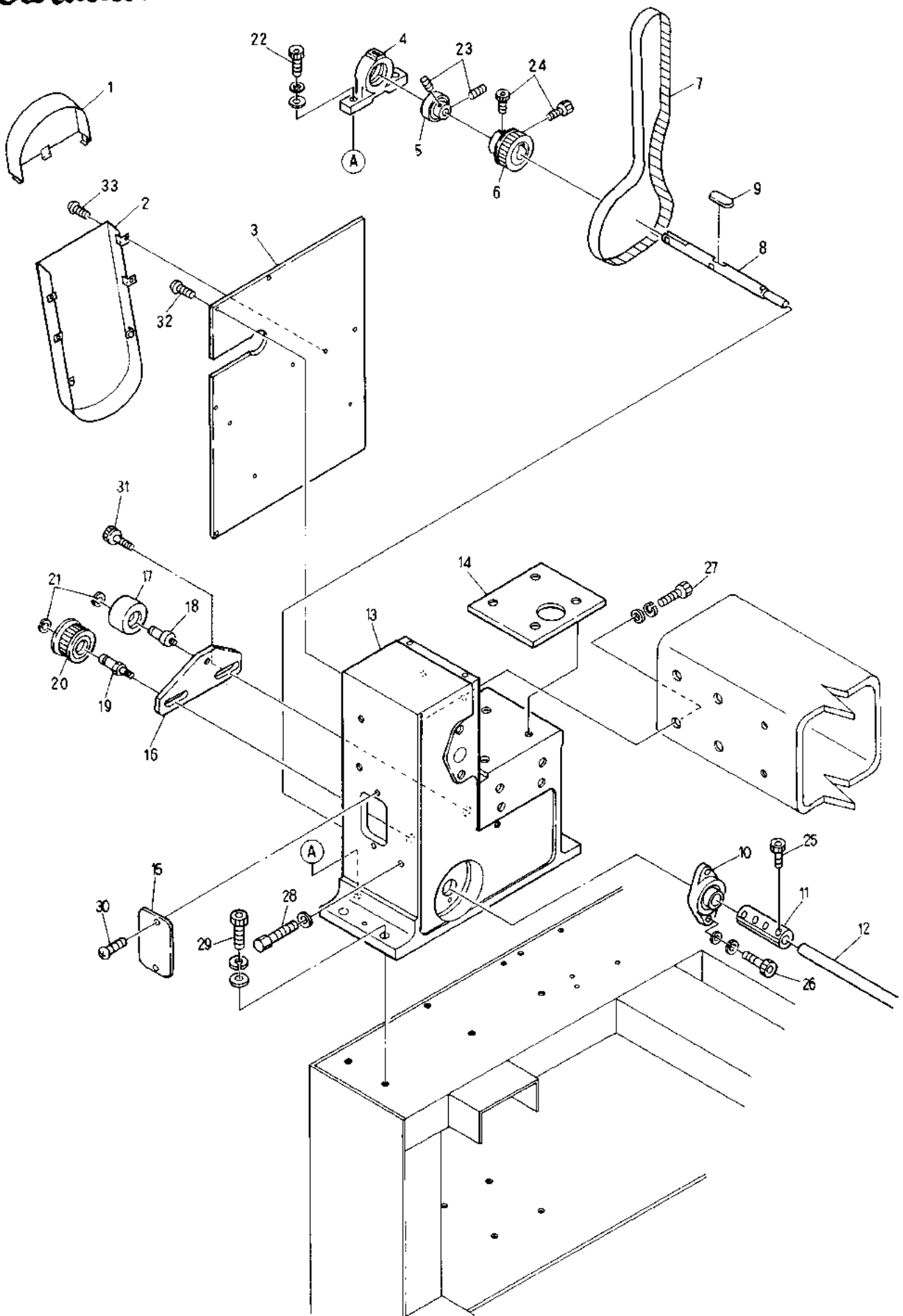
(H=Head Q'TY)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT270030	Thread support apron assy	H×1	
2	HT270001	Thread support apron	H×1	
3	KF230580	Take up lever ceramic	H×9	
4	HT270040	Thread support shaft	H×9	
5	HT270021	Thread support clamp	H×9	
6	KC270271	Support spring	H×9	
7	KC270292	Thread support block	H×9	
8	KL270000	Fixing base φ3	H×1	
9	HT270120	Thread support slider	H×1	
10	HT270100	Slide base	H×1	
11	KT270080	Driving plate	H×1	
12	A9012056	E-Ring φ3	H×4	
13	KL270040	Lever rotary shaft	H×1	
14	KL270090	Solenoid lever	H×1	
15	KL270060	Lever connecting plate	H×1	
16	KL270520	Return spring	H×1	
17	KL270070	Solenoid stay	H×1	
18	KC270101	Solenoid pin	H×1	
19	A9056013	Keep solenoid (TDS K10SL)	H×1	
20	HT270640	Driving shaft set bolt	H×1	
21	KN272400	Eccentric stopper	H×1	
22	HT270010	Thread support apron fixed stay	H×1	
23	HT230361	Driving shaft fixed plate	H×1	
24	HT270350	Thread hook disk driving pin	H×1	
25	HT270062	Set screw for thread support clamp	H3×4	
26		Flush screw M4 × 8		
27		Set screw M3 × 5		
28		Hex. socket bolt M6 × 3		
29		Hex. socket set screw M4 × 8		
30		Hex. nut M4		
31		Hex. socket bolt M3 × 10		
32		Hex. socket bolt M4 × 8		
33		Truss screw M4 × 16		
34		Hex. socket bolt (Plating) M3 × 6	H×4	
35	HT230830	Driving shaft fixed plate washer	H×1	



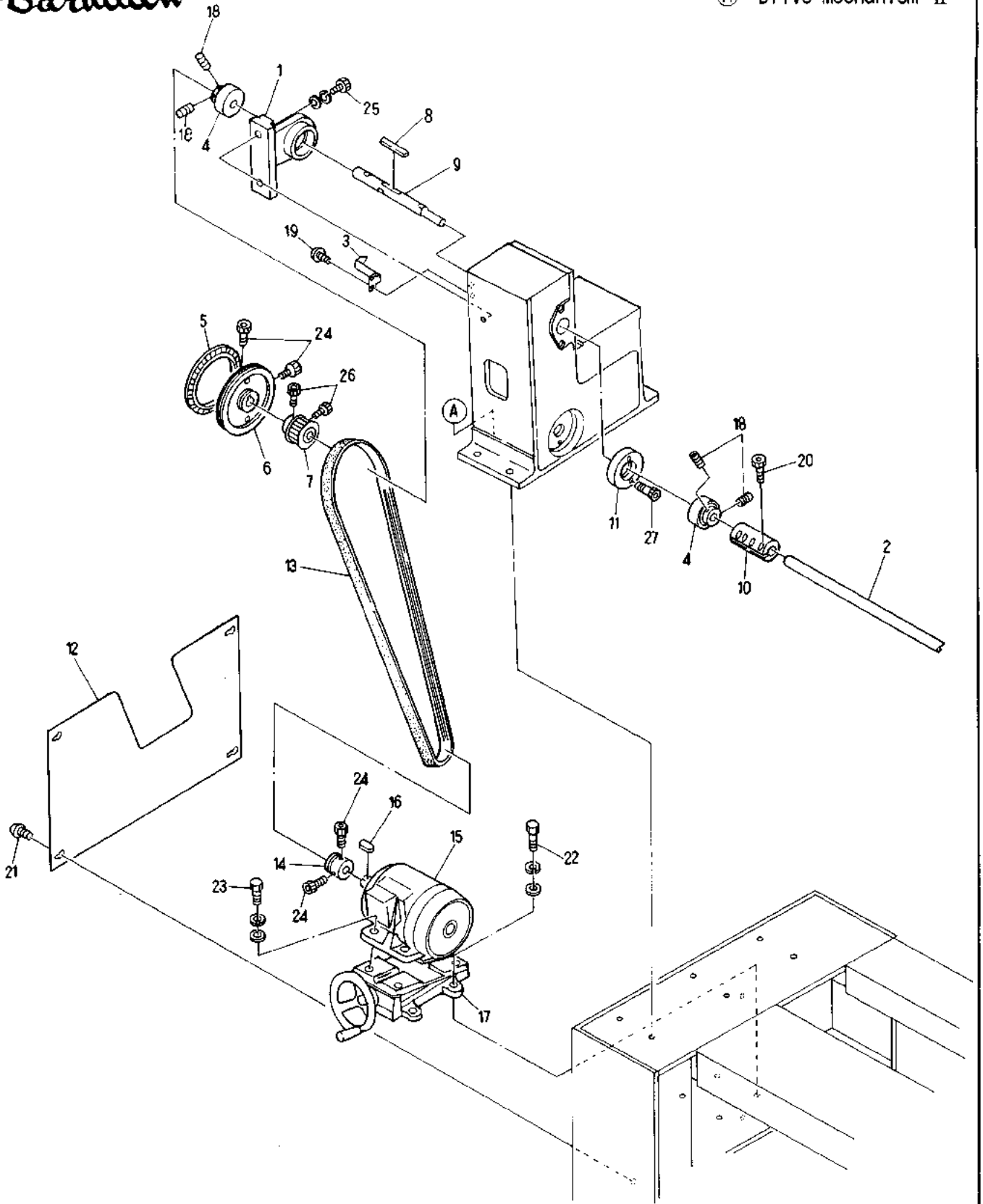
⑮ Thread cutting drive mechanism

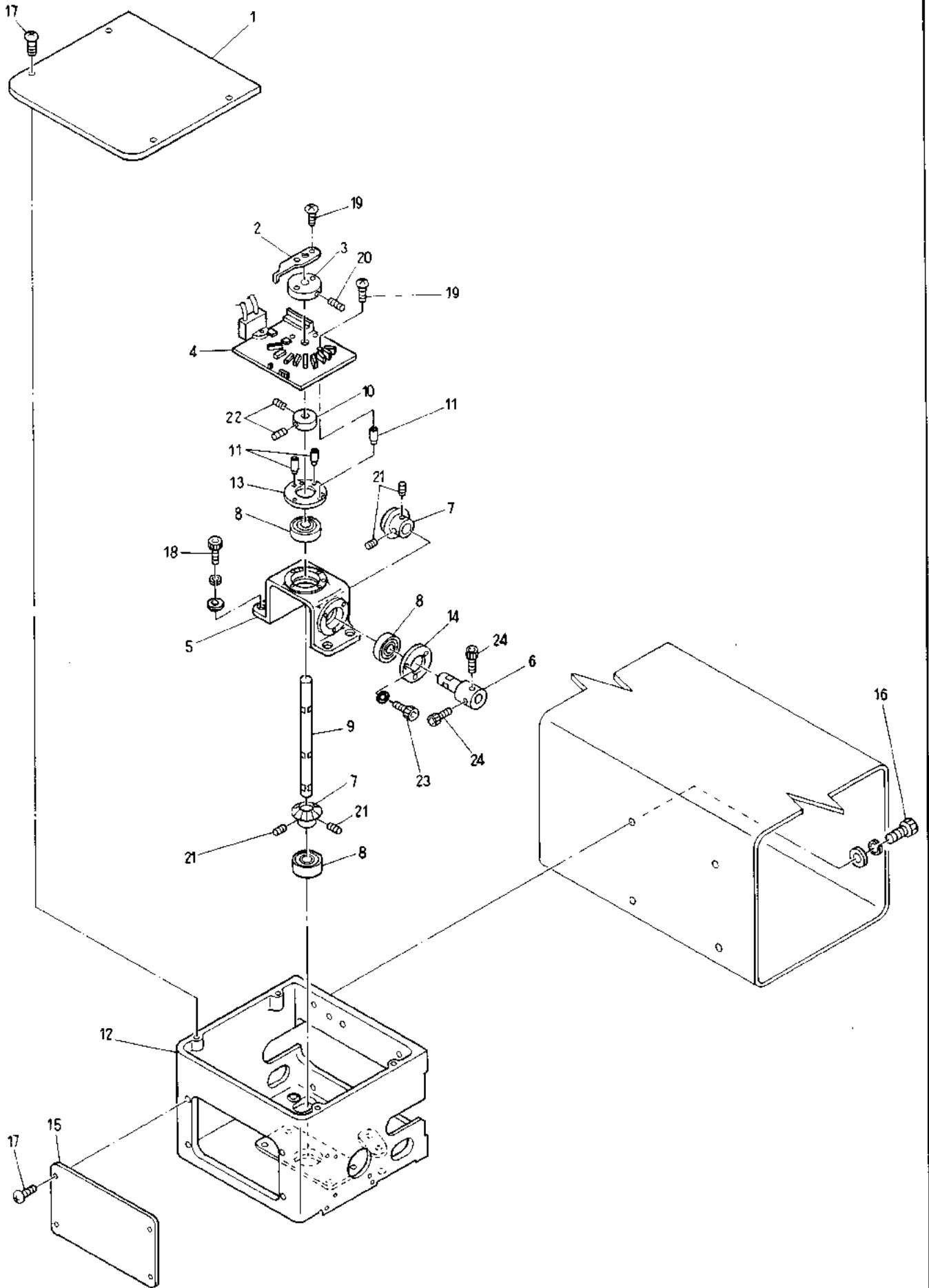
ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	KC271440	Drive service cover	1	
2	HS270030	Motor cam lever	1	
3	KC330180	Collar $\phi 10$	1	
4	A9052005	Micro switch (V-01GI2255)	1	
5	KN271781	Drive lever	2	
6	HS270040	Motor lever collar	1	
7	KN271750	Motor lever turret shaft	1	
8	A9012002	Uniball joint (PR-6)	1	
9	KC330510	Hex. connecting bar	1	
10	KC330410	Lock connecting rod (2M)	2	
11	HS270011	Motor bracket	1	
12	KC271430	Motor spacer	1	
13	A9065026	Reversible motor (RM-F7A12PEAA)(7RH-D30)	1	
14	HS270020	Motor bracket spacer	1	
15	HS270050	Motor bracket cover	1	
16	HS270060	Driving cam	1	
17	KN272350	Driving pin	1	
18		Flush screw M4×8		
19		Nut (C) M4		
20		Hex. nut M6		
21		Hex. socket bolt M6×12		
22		Hex. socket set screw M5×6		
23		Hex. socket bolt M6×55		
24		Hex. nut M8		
25		Truss screw M3×15, M3×20		
26		Hex. nut M5		
27		Hex. socket bolt M4×12		
28		Hex. socket set screw M5×8		
29		Pan screw M4×60		
30		Truss screw M3×6		
31		Hex. socket bolt M8×30		
32		Hex. nut M3		
33	A9054040	Condenser 6uF-200V	1	

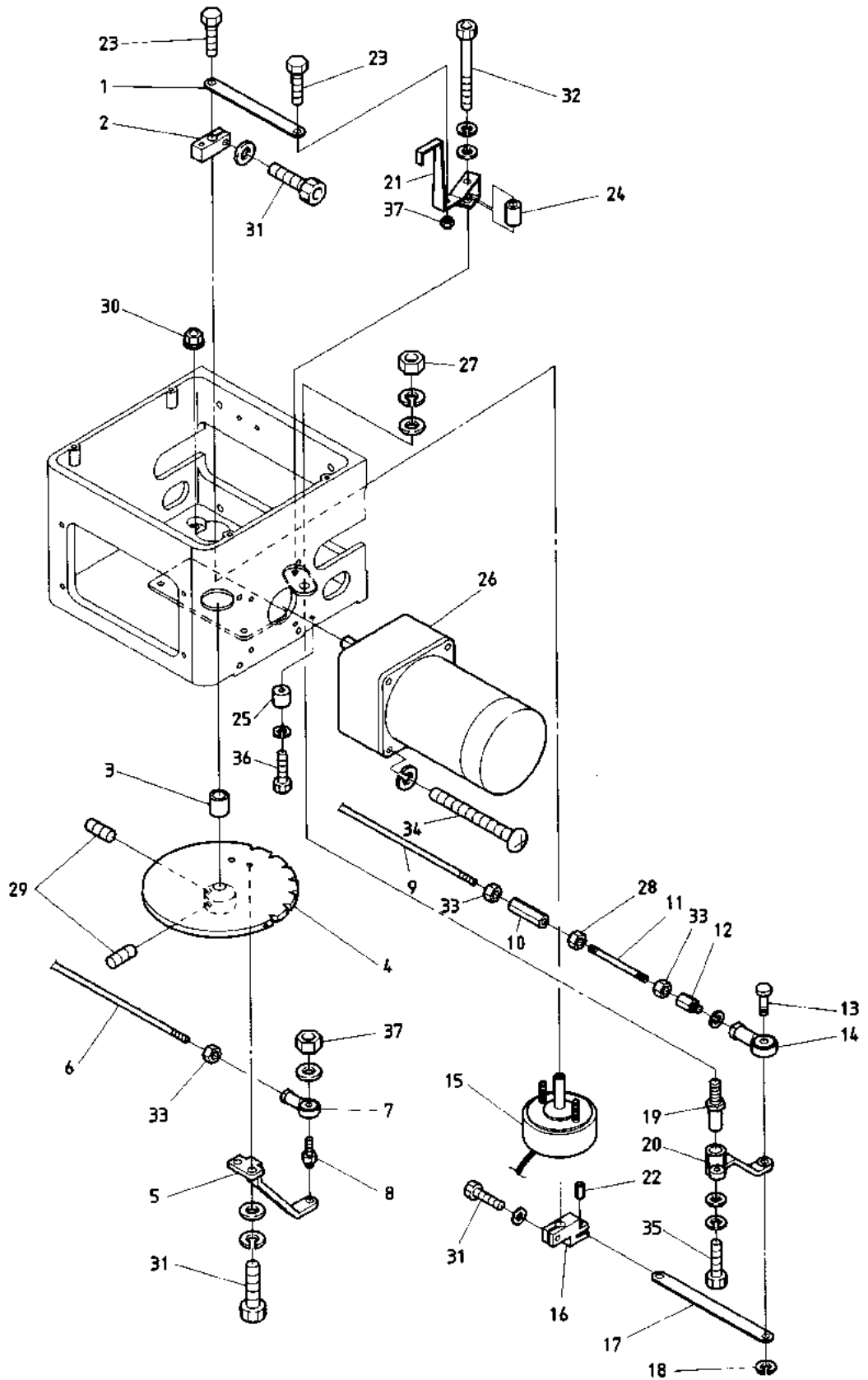


⑩ Drive mechanism I

LTEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HV310080	Drive pully cover	1	
2	HV310090	Belt cover	1	
3	HV310100	Gear box cover (L)	1	
4	HB310120	Bearing unit (For lower shaft)	1	
5	A9011040	Bearing (RB-204)	1	
6	HB310070	Timing pulley (8M-23)	1	
7	A9020131	Timing belt (250S8M760)	1	
8	HV310060	Lower shaft (Gear box L)	1	
9	HV310070	key 6 × 6 × 47	1	
10	A9011035	Bearing unit (UCFL204)	1	
11	HP321100	Lower shaft connecting cupling	1	
12	KC320820	Upper shaft connecting shaft 15×5700	1	
13	HV310020	Gear box (L)	1	
14	HB130020	Bridge fixing spacer T=1	1	
15	HB310160	Gear box front cover	1	
16	HS310020	Idler base (BENSHE-YN)	1	
17	HB310080	Idler pulley φ65	1	
18	HP310150	Idler shaft	1	
19	HS310030	Idler shaft (BENSHE-YN)	1	
20	HS310011	Idler timing pulley (BENSHE-YN)	1	
21	A9012068	C-Ring (For shaft φ15)	2	
22		Hex. socket bolt M10 × 45		
23		Hex. socket set screw M6 × 6		
24		Hex. socket bolt M6 × 12		Key side
25		Hex. socket bolt M6 × 20		
26		Hex. socket bolt M10 × 35		
27		Hex. socket bolt M12 × 40		
28		Hex. socket bolt M5 × 50		For small bobbin
		Hex. bolt M5 × 60		For middle bobbin
29		Hex. socket bolt M12 × 45		
30		Truss screw M5 × 10		
31		Hex. socket flang bolt M8 × 25		Key side
32		Truss screw M5 × 10		
33		Truss screw M5 × 10		





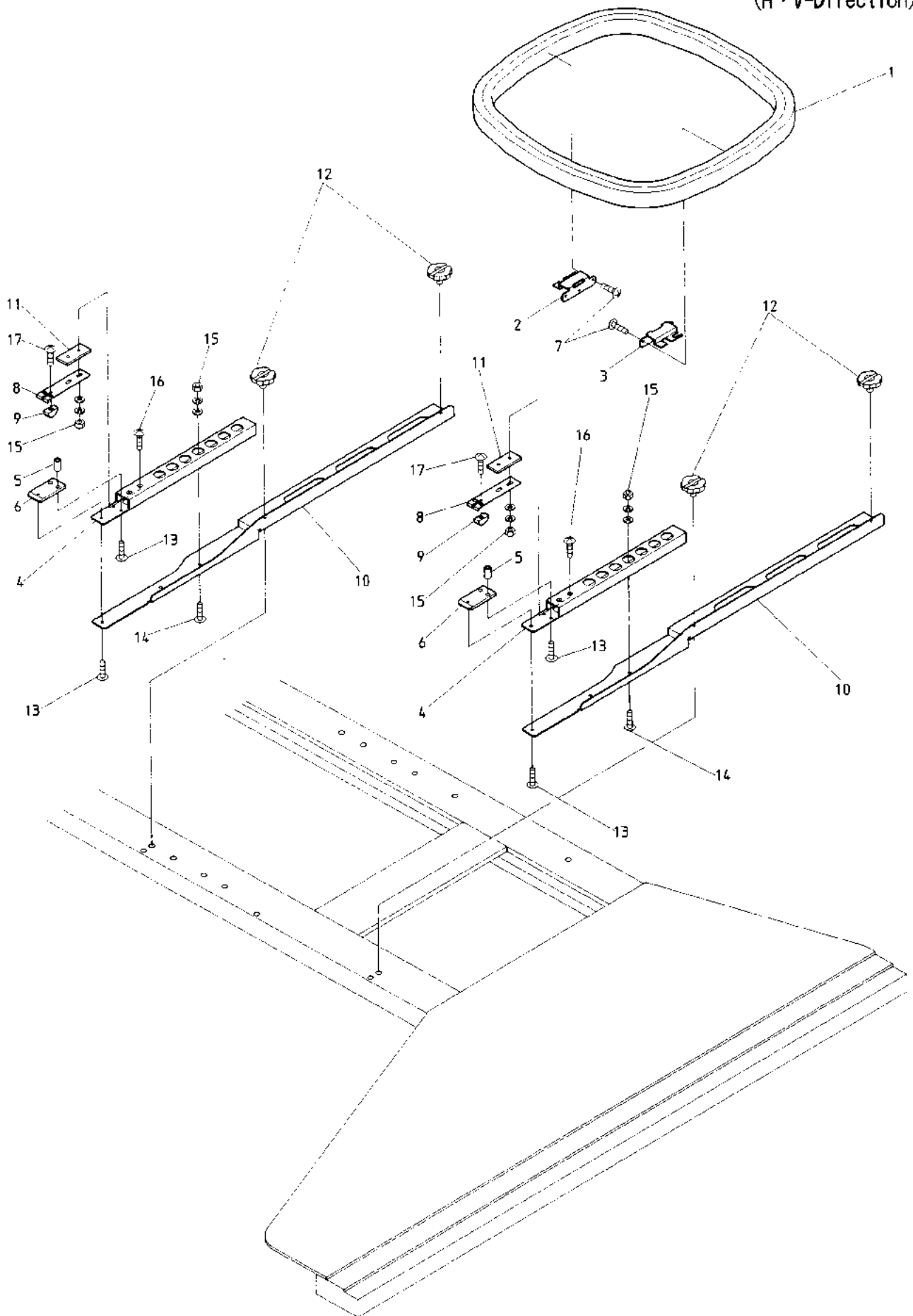


⑨ Color change mechanism II

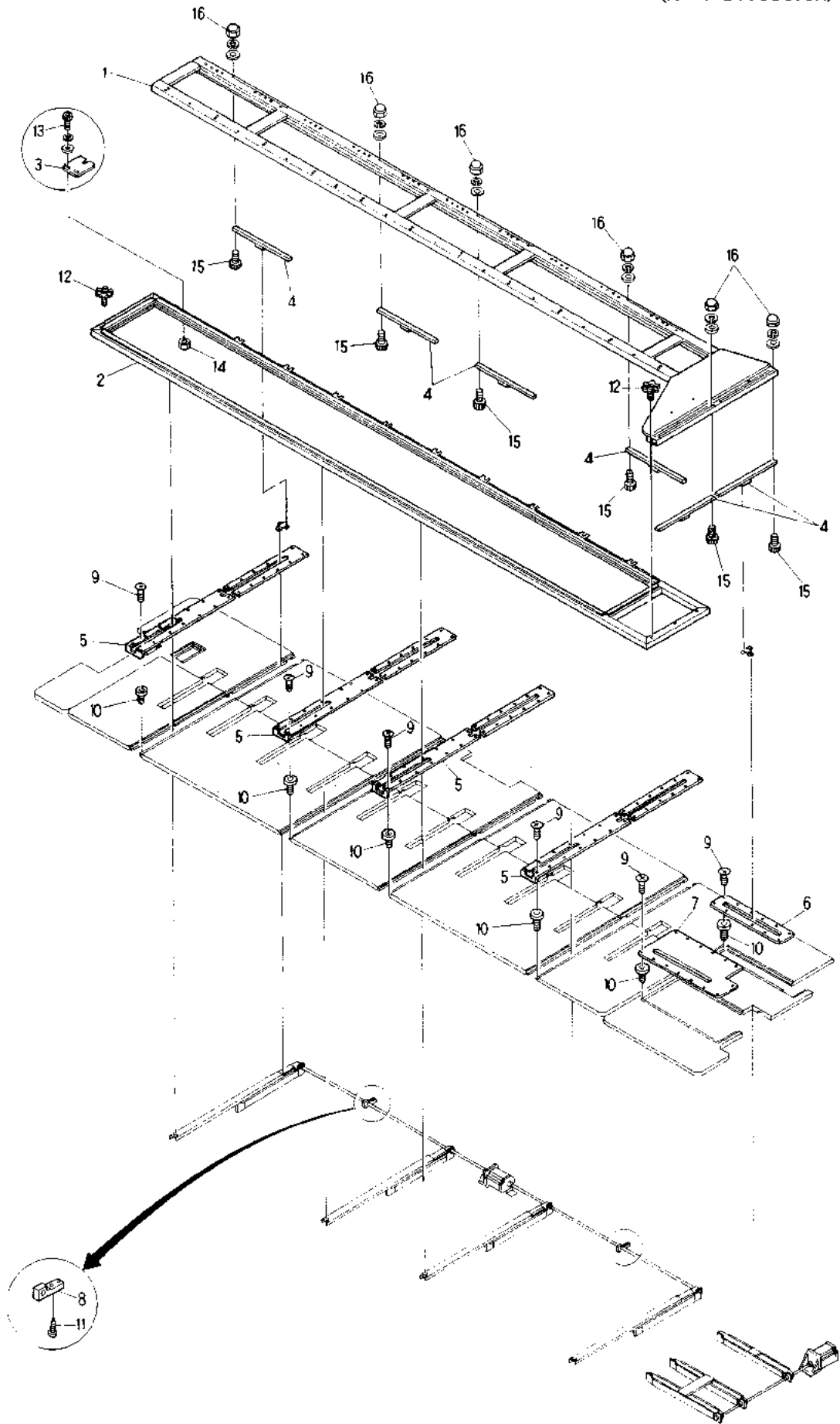
ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	HB330090	Lock confirmation lever (Driving plate)	1	
2	HB330070	Lock confirmation lever (Driving plate)	1	
3	HB330120	Turret plate position collar	1	
4	HT330001	Color change plate	1	
5	HB330040	Color change plate lever	1	
6	KC330310300	Turret plate connecting rod (L=250)	1	
7	A9012001	Uniball joint (RD4020R)	1	
8	HP331650	Joint pin	1	
9	KC330410	Lock connecting rod L=2000	2	
10	HH330770	Hex. connecting bar	1	
11	KC330420	Lock connecting rod	1	
12	HP331610	Hex. connecting bar	1	
13	HP331560	Lock lever pin	1	
14	A9012002	Uniball joint (PR-6)	1	
15	A9056011	Rotary solenoid (6SR25-27×3.4.9)	1	
16	HB330060	Lock solenoid lever	1	
17	HB330080	Link lock lever	1	
18	A9012055	E-Ring (φ4)	1	
19	KF230630	Lock lever shaft	1	
20	HB330050	Color change lock lever	1	
21	HB330101	Lock confirmation lever	1	
22	A9012143	Spring pin φ6×12	1	
23	HP331700	Lock confirmation lever pin	2	
24	HP331950	Lock confirmation roller	1	
25	HH330670	Eccentric stopper	1	
26	HII330810	Gear motor shaft (RM-F6A5PC3-AS-180)	1	
27		Hex. nut M8		
28		Hex. nut M5		
29		Hex. socket set screw M5×8 (With adhesion)	2	
30		Flange nut M5		
31		Hex. socket bolt M5×15		
32		Hex. socket bolt M4×30		
33		Hex. nut M5		
34		Pan screw M4×60		
35		Hex. socket bolt M5×10		
36		Hex. socket bolt M4×25		
37		Hex. nut M4		

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⑳ Pantograph drive mechanism
(H·V-Direction)

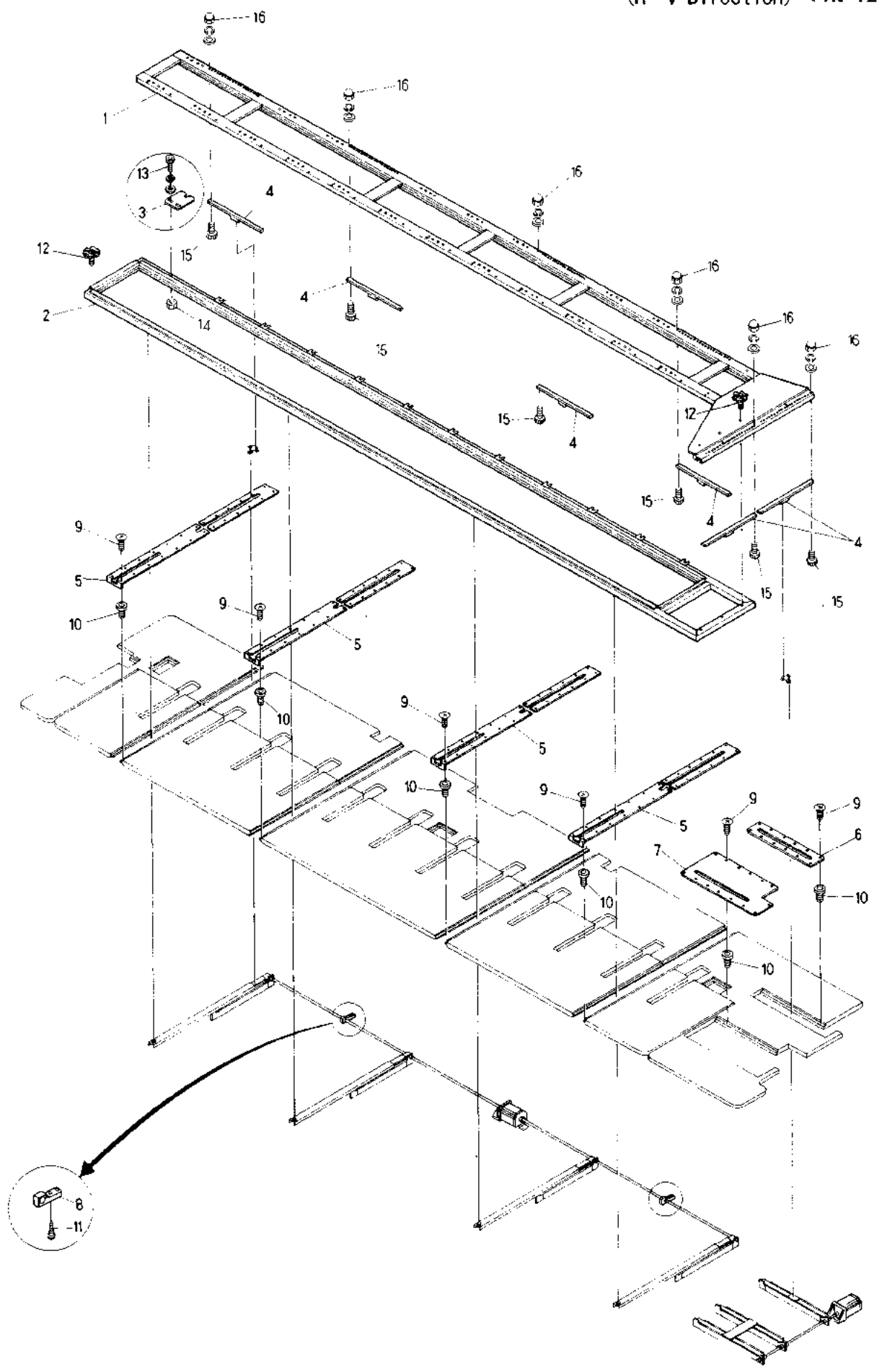


MODEL BENSHE-YN



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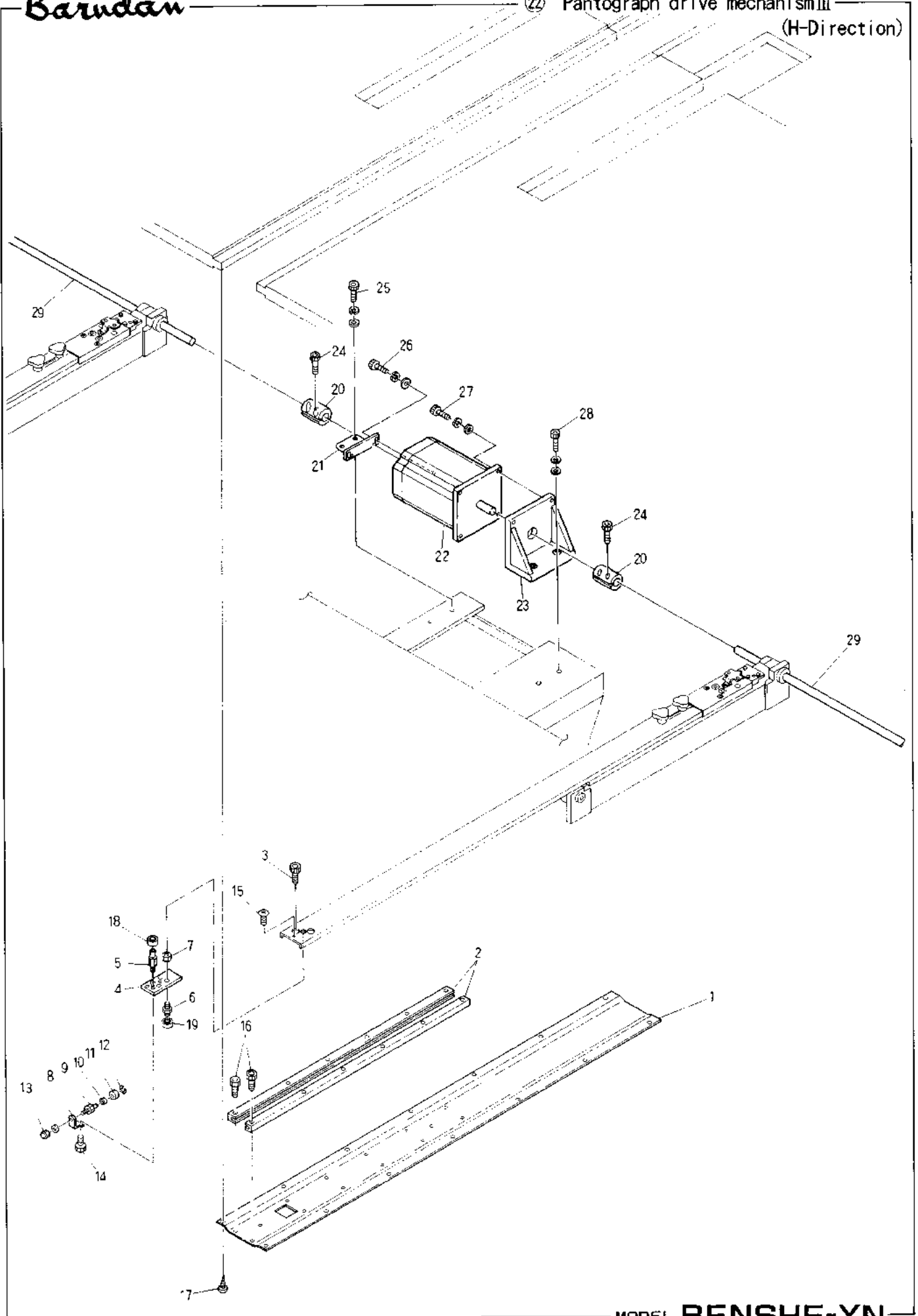
21 Pantograph drive mechanism II
(H · V-Direction) <YN-12>



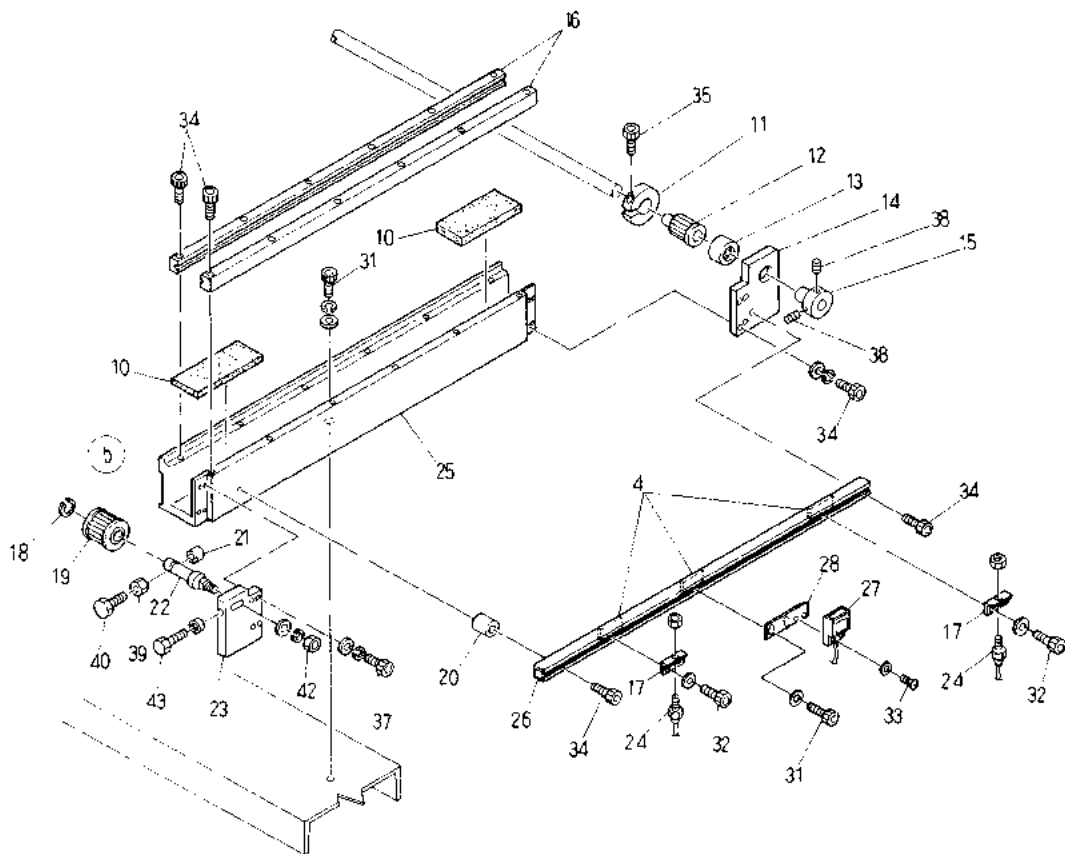
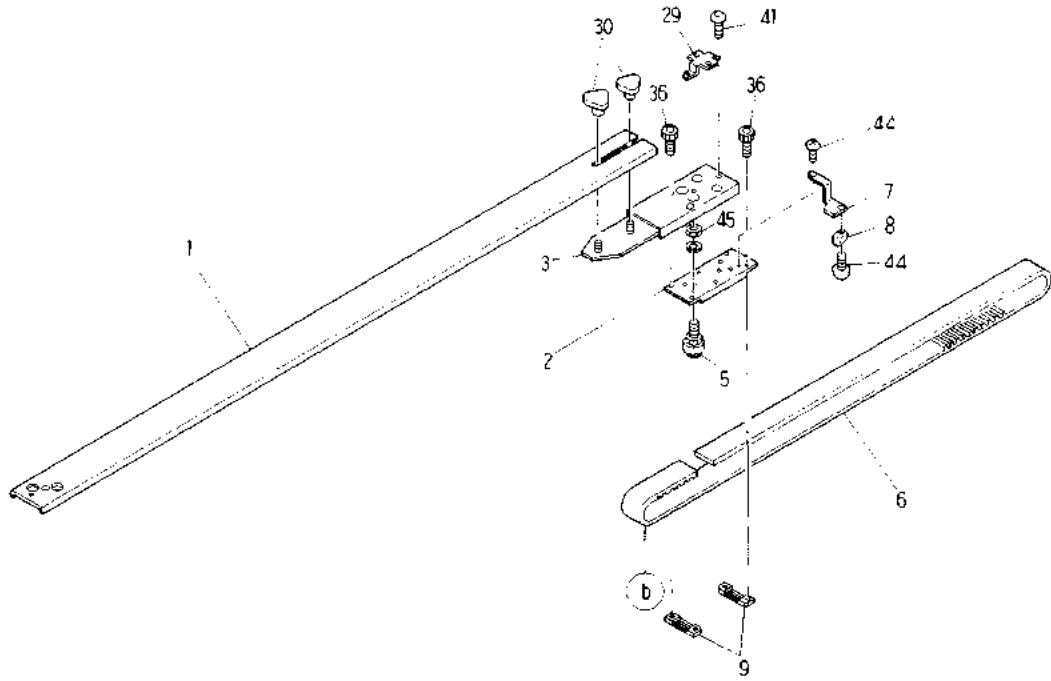
MODEL BENSHE-YN

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22 Pantograph drive mechanism III
(H-Direction)

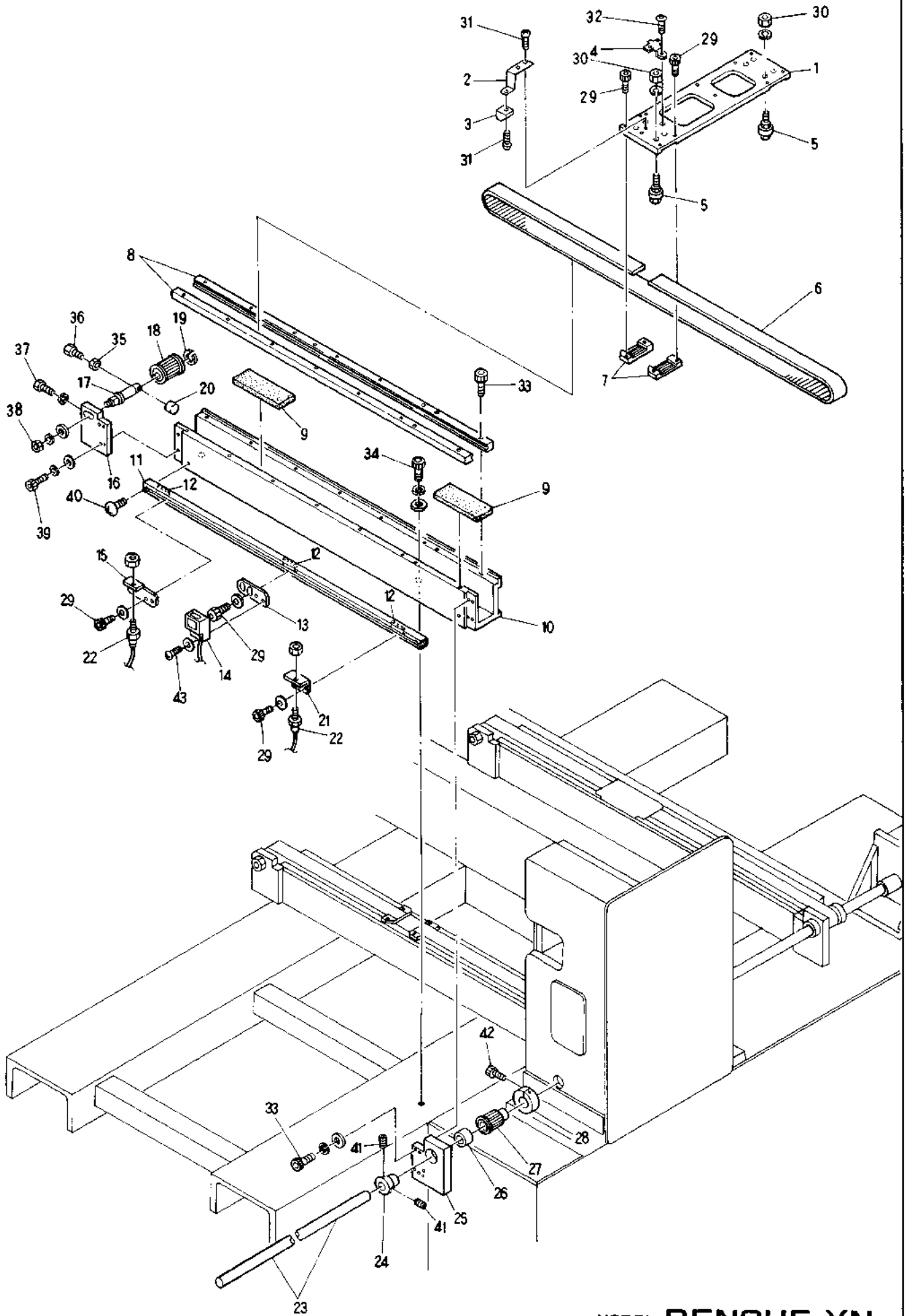


MODEL BENSHE-YN



② Pantograph drive mechanismIV (H-Direction)

ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	HS480051	H-Member connections channel (Front)(Stroke 450)	4	
2	HS480000	H Roller base (Rear) (BENSHE)	4	
3	HS480061	H-Member connections channel (BENSHE-YN)	4	
4	KU460270	Plate nut (M3)	3	
5	HP482950	Roller pin assy A	16	
6	A9020170	Timing belt (B300S5M)	4	
7	HP451080	H-Pantograph origin magnet bracket	1	
8	A9052030	Magnet (M-102-02)	1	
9	HP482940	Timing belt rack (5M)	8	
10	KN480061	Rail base felt (100×38×6)	8	
11	HH481980	Clamping $\phi 19$	4	
12	HV480040	Pantograph driving pulley (Rear)	4	
13	A9011063	Needle bearing (TLA2016)	1	
14	HV480030	H-guide rear pulley bracket	4	
15	HH481970	Pulse motor coupling shaft collar	4	
16	HP482910	V-Guide rail (L=1060)	8	
17	MT460240	RS-001 Bracket	2	
18	A9012052	E-Ring ($\phi 10$)	4	
19	HV480050	Pantograph driving pulley (Front)	4	
20	A9012219	Spacer 8×7	1	
21	HH482110	Pulley shaft bolt cap	4	
22	HH481991	Timing pulley shaft	4	
23	HS480280	H-Guide front pulley bracket (BENSHE)	4	
24	A9052024	Switch (RS-001)	2	
25	HS480090	H-Guide rail base (Stroke 450)	4	
26	HP45111645	H-Origin rail (Stroke 450)	1	
27	A9052031	Magnet proximity switch (MH-601A)	1	
28	KN450300	MH-601A Proximity swith fixing bracket	1	
29	HS460090	H-Pantograph driving rail fixing bracket	4	
30	A9012238	Knob nut KT-N M5	8	
31		Hex. socket bolt M8×25		
32		Hex. socket bolt M3×8		
33		Flush screw M4×6		
34		Hex. socket bolt M4×15		
35		Hex. socket bolt M5×18		
36		Hex. socket bolt M4×6		
37		Hex. socket bolt M4×18		
38		Hex. socket set screw M5×8		
39		Hex. nut M4		
40		Hex. bolt M4×40		
41		Hex. socket button bolt M4×6		
42		Hex. nut M8		
43		Hex. bolt M4×25		
44		Truss screw M3×6		
45		Hex. nut M5		

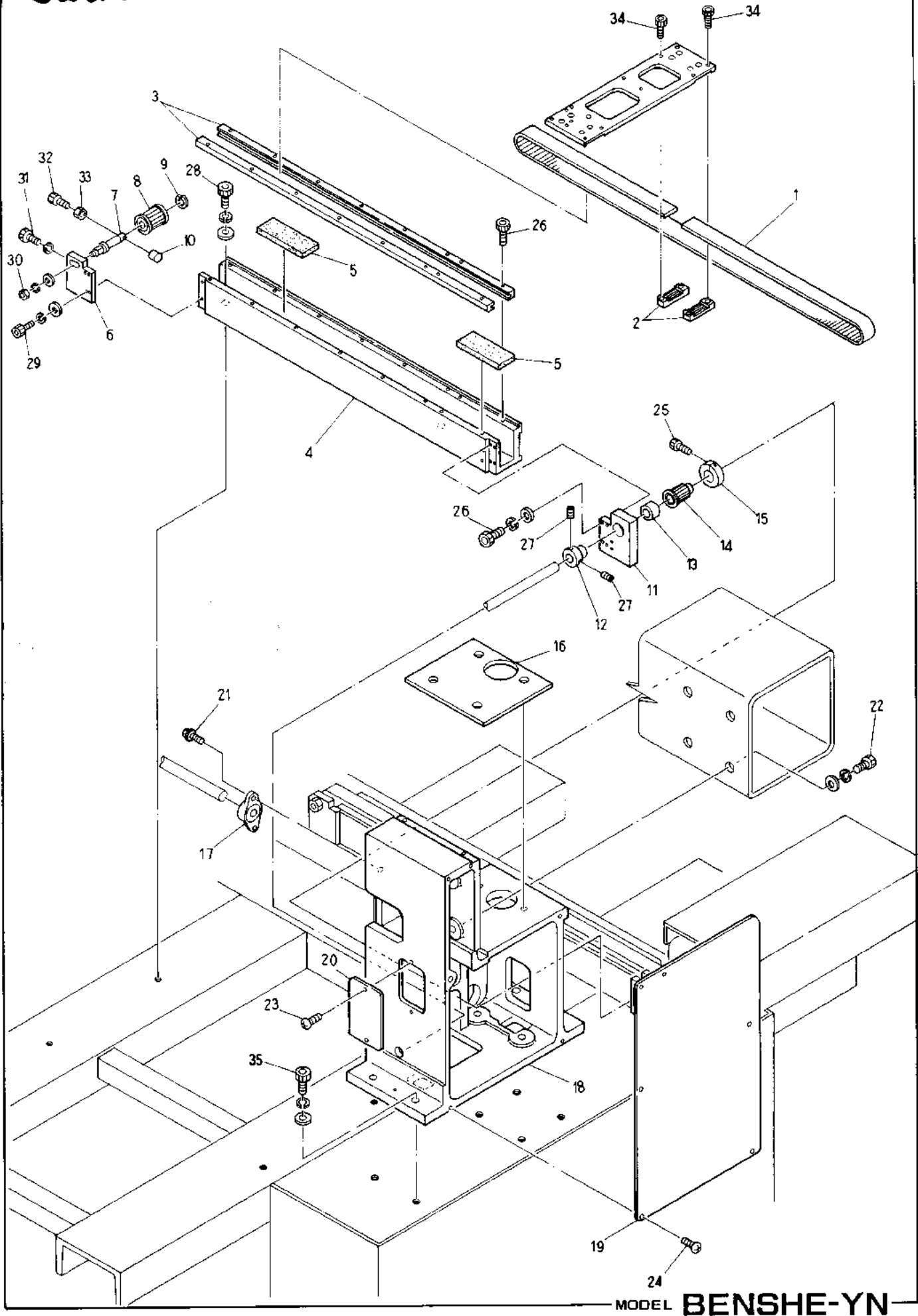


② Pantograph drive mechanism V (V-Direction)

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
1	IIS480020	V-Roller base (LMガイド)	1	
2	HP451100	V-Pantograph origin magnet bracket	1	
3	A9052030	Magnet (M-102-02)	1	
4	HS460100	V-Pantograph driving rail fixing bracket	1	
5	HP482950	Roller pin assy A	8	
6	A9020170	Timing belt (B300S5M)	1	
7	HP482940	Timing belt rack (5M)	2	
8	HP482910	V-Guide rail (L=1060)	2	
9	KN480061	Rail base felt (100×38×6)	2	
10	HP48217G380	V-Guide rail base (Stroke 380)	1	
11	HP45112G380	V Origin rail base (Stroke 380)	1	
12	KU460270	Plate nut (M3)	3	
13	KU450300	Proximity switch fixing bracket MH-601A		
14	A9052031	Magnet proximity switch (MH-601A)	1	
15	HS480260	RS-001 Bracket (V-L)	1	
16	HH482000	H-Guide front pulley bracket (BENSHE)	1	
17	HH481991	Timing pulley shaft	1	
18	HV480050	Pantograph driving pulley (Front)	1	
19	A9012052	E-Ring (φ10)	1	
20	HH482110	Pulley shaft bolt cap	1	
21	MT460240	RS 001 Bracket (V)	1	
22	A9052024	Switch RS-001	2	
23		V-Pulse motor shaft φ15	1	
24	HH481970	Pulse motor coupling shaft collar	1	
25	HV480030	H-Guide rear pulley bracket	1	
26	A9011063	Needle bearing (TLA2016)	1	
27	HV480040	Pantograph driving pulley (Rear)	1	
28	HH481980	Clamping φ19	1	
29		Hex. socket bolt M3×6		
30		Hex. nut M5		
31		Truss screw M3×6		
32		Hex. socket button bolt M4×6		
33		Hex. socket bolt M4×15		
34		Hex. socket bolt M8×25		
35		Hex. nut M4		
36		Hex. bolt M4×10		
37		Hex. bolt M4×25		
38		Hex. nut M8		
39		Hex. socket bolt M4×18		
40		Flush screw M4×6		
41		Hex. socket set screw M5×8		
42		Hex. socket bolt M5×18		
43		Truss screw M3×10		

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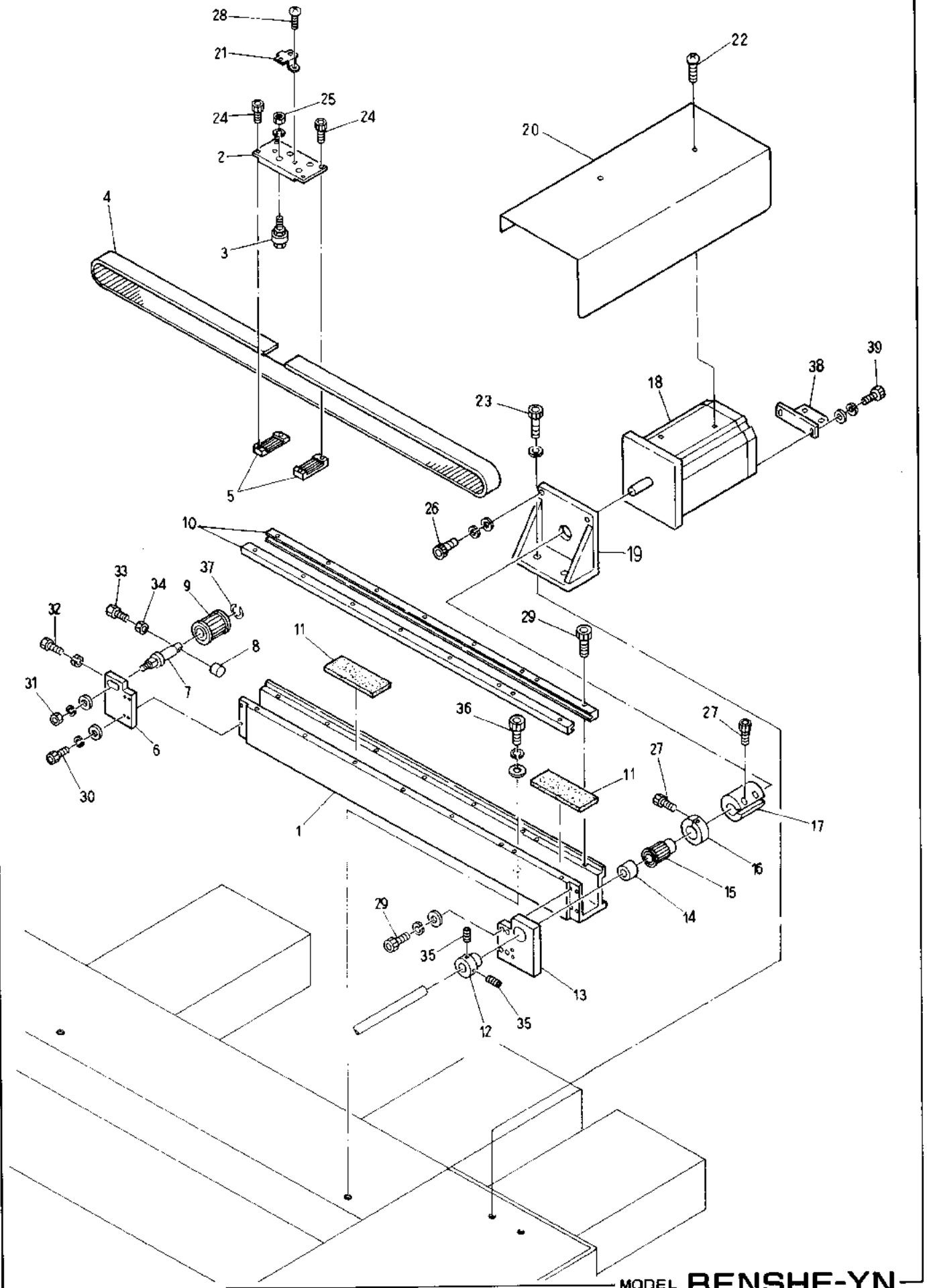
②⑤ Pantograph drive mechanism VI (V-Direction)



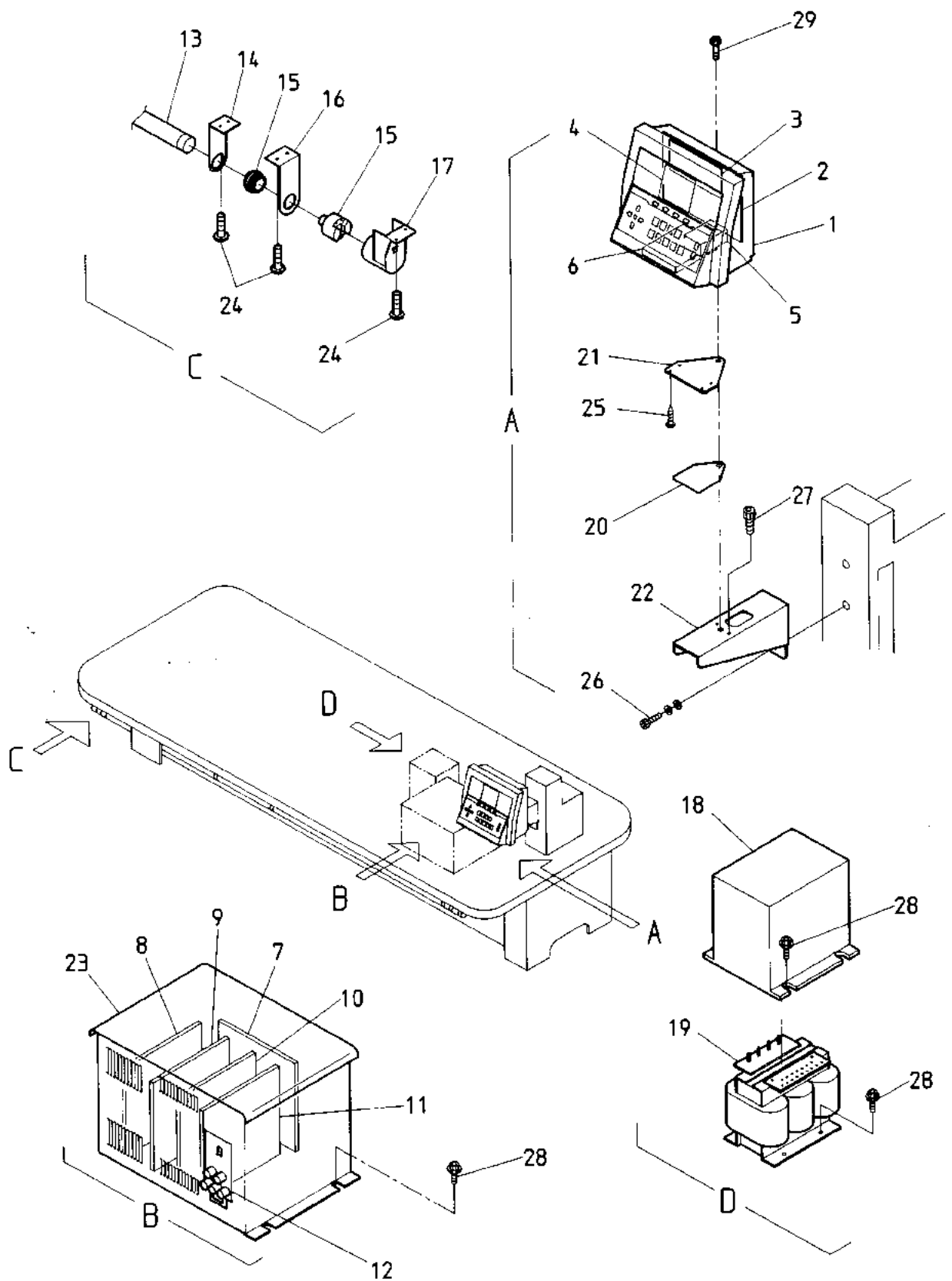
MODEL BENSHE-YN

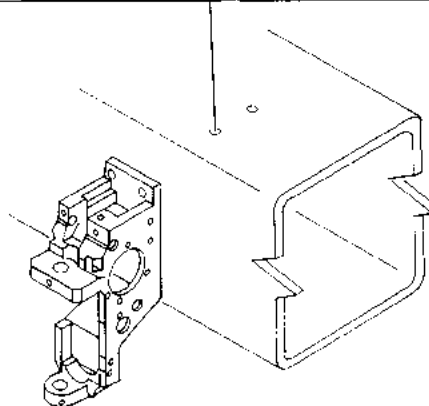
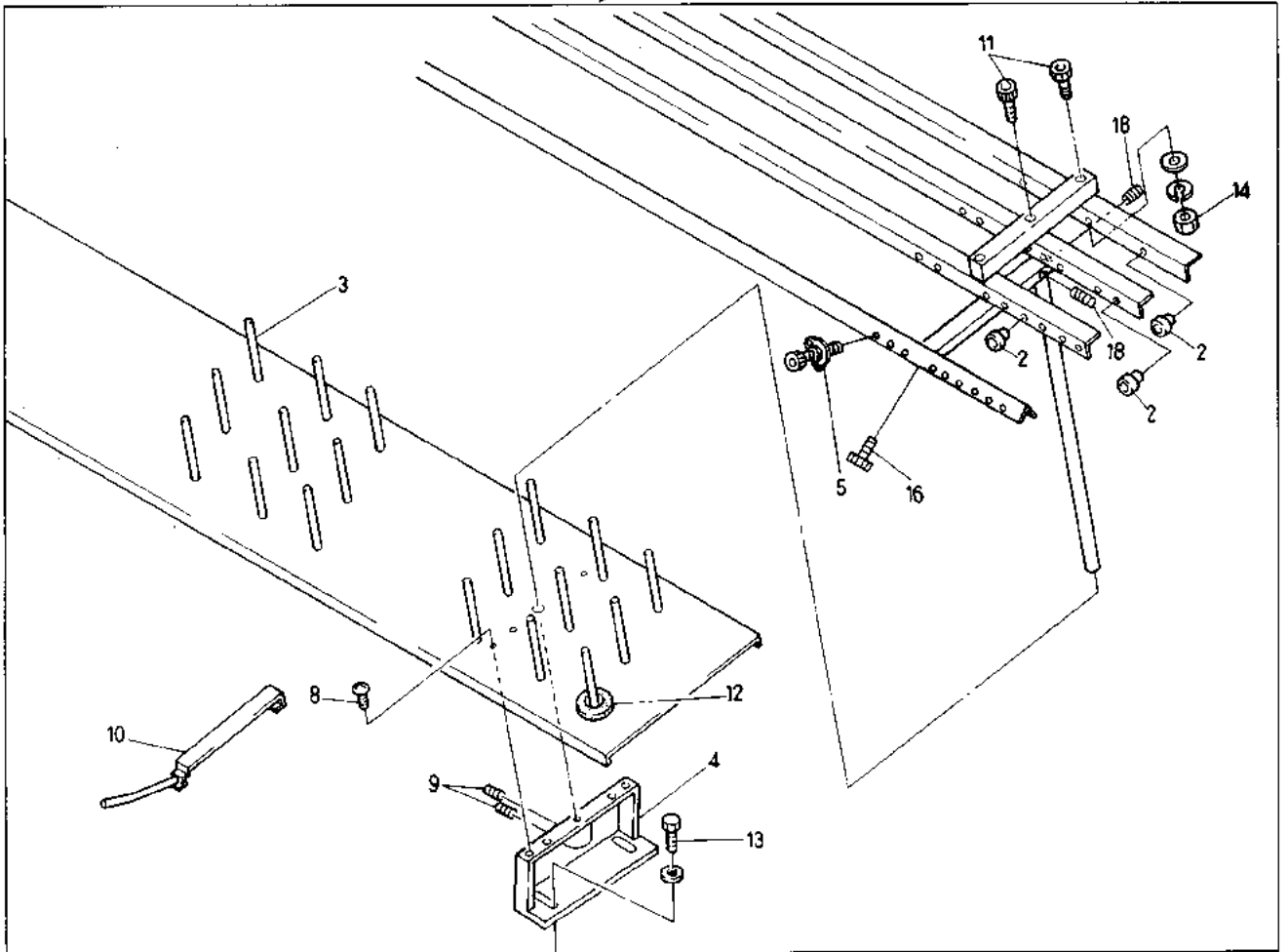
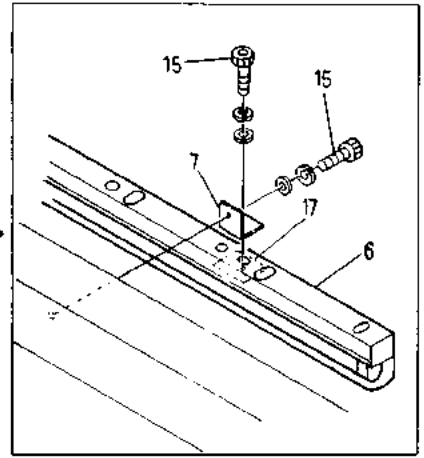
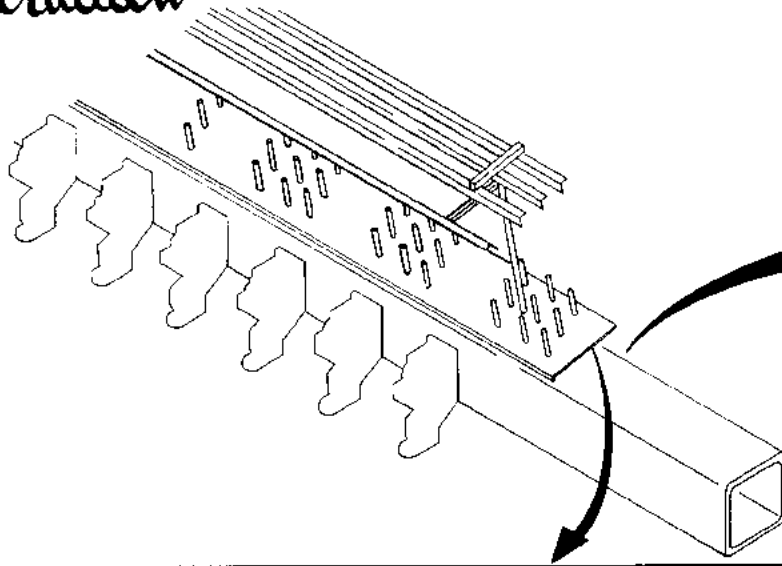
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26 Pantograph drive mechanism VII
(V-Direction)



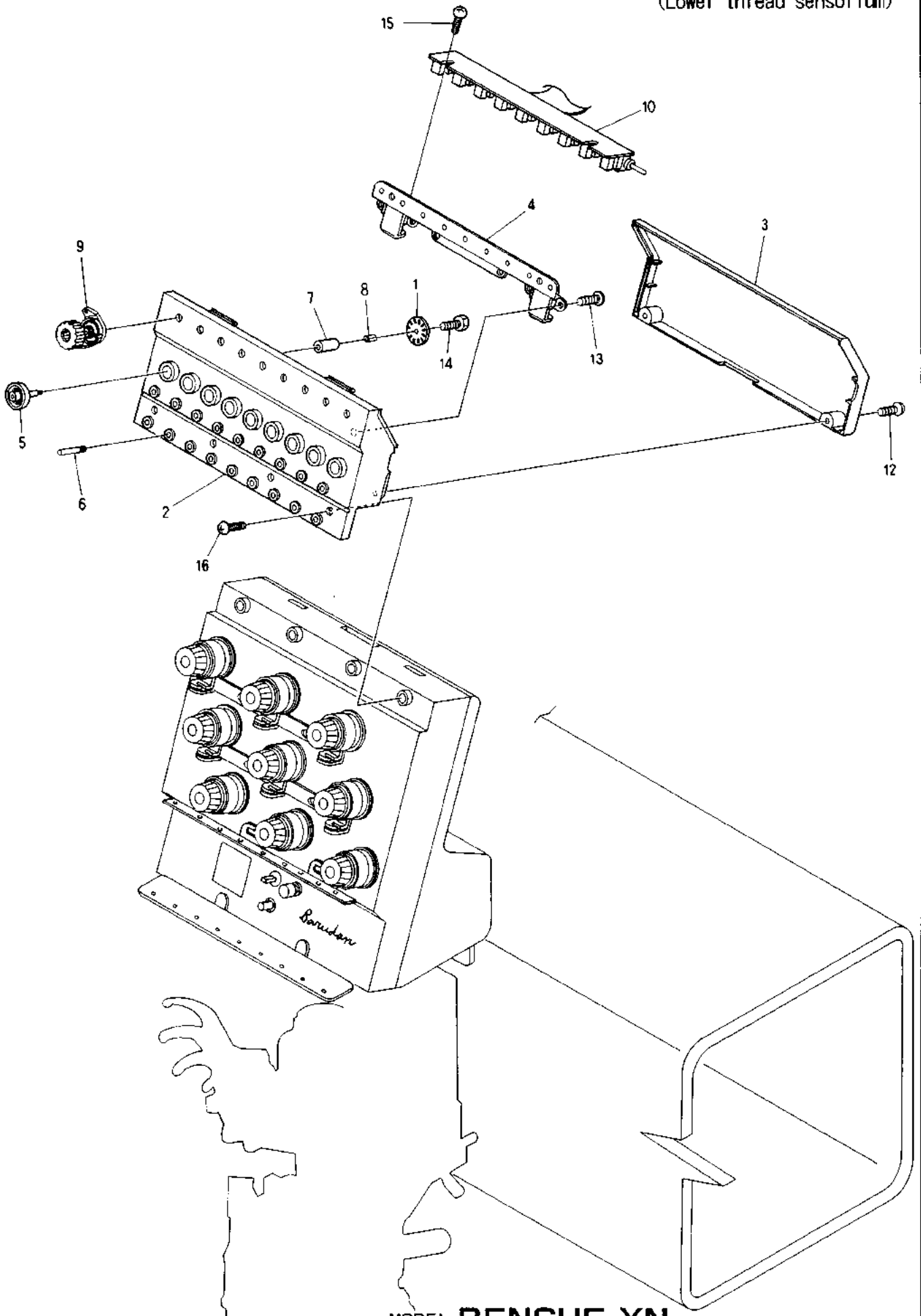
MODEL BENSHE-YN





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29 Thread guide mechanism
(Lower thread sensorium)



MODEL BENSHE-YN

I N D E X

LIST No.	PAGE No.	ITEM	LIST No.	PAGE No.	ITEM
19056012	13	1	A9012127	49	12
1AHN1252052045H	5	2	A9012143	41	22
1BHN1252052045H	5	12	A9012163	15	16
1FHS1052052045H	45	2	A9012164	21	10
1FHS1252052045H	47	2	A9012219	51	20
1GHS1052052045H	45	1	A9012238	51	30
1GHS1252052045H	47	1	A9012367	21	27
1KHN1252052045H	5	1	A9012368	21	17
1SHS10520520K	3	10	A9013045	13	21
1SHS12520520K	5	10	A9014051	25	14
A9010001	39	8	A9014055	19	16
A9010017	15	15	A9014059	11	43
A9010100	11	32	A9020131	35	7
A9010101	11	31	A9020170	51	6
A9010102	11	33	A9020170	53	6
A9011021	17	5	A9020170	55	1
A9011021	19	19	A9020170	57	4
A9011022	19	20	A9020171	37	13
A9011023	19	18	A9052005	33	4
A9011035	35	10	A9052024	51	24
A9011040	35	5	A9052024	53	22
A9011040	37	4	A9052028	29	10
A9011063	51	13	A9052030	51	8
A9011063	53	26	A9052030	53	3
A9011063	55	13	A9052031	51	27
A9011063	57	14	A9052031	53	14
A9011111	11	11	A9054040	33	33
A9011152	17	4	A9056008	13	2
A9011173	13	27	A9056011	41	15
A9012001	41	7	A9056013	31	19
A9012002	33	8	A9056018	29	1
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A9012027	11	20	EBY01120	39	4
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A9012052	51	18	EBY01250	59	2
A9012052	53	19	EBY01260	59	4
A9012052	55	9	EBY01270	59	5
A9012052	57	37	EBY01290	59	12
A9012053	19	33	EBY01300	59	10
A9012055	41	18	EBY01320	59	11
A9012056	31	12	EBY01330	59	7
A9012068	35	21	EBY01340	59	9
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HB 1 3 0 0 3 0	5 5	1 6	HB 3 1 0 0 3 0	5 5	1 9
HB 2 2 0 0 1 0	1 1	1 5	HB 3 1 0 0 7 0	3 5	6
HB 2 3 0 0 1 1	1 5	1 3	HB 3 1 0 0 7 0	3 7	7
HB 2 3 0 0 2 0	1 5	1 1	HB 3 1 0 0 8 0	3 5	1 7
HB 2 3 0 0 3 0	1 5	1 4	HB 3 1 0 0 9 0	5 5	1 9
HB 2 3 0 0 4 0	1 5	1 9	HB 3 1 0 1 1 0	3 7	1
HB 2 3 0 0 5 0	1 5	1 0	HB 3 1 0 1 2 0	3 5	4
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HB 2 3 0 2 4 1	2 3	9	HB 3 3 0 0 4 0	4 1	5
HB 2 3 0 2 6 1	2 3	8	HB 3 3 0 0 5 0	4 1	2 0
HB 2 3 0 2 7 1	2 3	7	HB 3 3 0 0 6 0	4 1	1 6
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HB 2 4 0 0 2 0	2 5	4	HB 7 1 0 0 1 0	6 1	7
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HB 2 4 0 0 6 0	2 5	9	HG 4 8 0 0 0 1	4 7	6
HB 2 4 0 0 7 0	2 5	1 3	HH 3 2 0 5 5 0	3 7	1 0
HB 2 4 0 0 8 0	2 5	1 1	HH 3 3 0 6 7 0	4 1	2 5
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HB 2 4 0 1 5 1	1 7	2	HH 4 8 1 9 3 1	4 9	2 0

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HH 4 8 1 9 7 0	5 3	2 4	HP 3 3 1 9 2 2	1 1	3 7
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HH 4 8 1 9 7 0	5 7	1 2	HP 4 5 1 0 8 0	5 1	7
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HH 4 8 2 0 0 0	5 5	6	HP 4 8 2 8 8 0	4 9	4
HH 4 8 2 0 0 0	5 7	6	HP 4 8 2 9 1 0	4 9	2
HH 4 8 2 1 1 0	5 1	2 1	HP 4 8 2 9 1 0	5 1	1 6
HH 4 8 2 1 1 0	5 3	2 0	HP 4 8 2 9 1 0	5 3	8
HH 4 8 2 1 1 0	5 5	1 0	HP 4 8 2 9 1 0	5 5	3
HH 4 8 2 1 1 0	5 7	8	HP 4 8 2 9 1 0	5 7	1 0
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HS 1 4 0 6 8 0	3	7	HS 2 1 0 1 0 0	1 3	1 8
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HS 2 1 0 0 3 0	1 1	1 9	HS 4 8 0 0 7 2	4 9	1
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HS 4 8 0 2 2 1	4 5	7	HT 2 3 0 4 5 0	2 1	6
HS 4 8 0 2 2 1	4 7	7	HT 2 3 0 4 6 0	2 1	7
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HS 4 8 0 2 8 0	5 1	2 3	HT 2 3 0 4 9 0	2 1	1
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HS 5 1 0 0 0 0	5	1 7	HT 2 3 0 5 1 0	2 1	1 2
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HT 2 3 0 1 5 1	1 9	2 8	HT 2 3 0 8 3 0	3 1	3 5
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HT 2 4 0 2 8 0	6 3	4	HV 3 3 0 0 2 0	5 9	2 1
HT 2 4 0 2 9 0	6 3	5	HV 4 8 0 0 1 0	4 9	2 3
HT 2 4 0 3 0 0	6 3	6	HV 4 8 0 0 1 0	5 7	1 9
HT 2 4 0 3 1 0	6 3	7	HV 4 8 0 0 2 0	4 9	2 1
HT 2 4 0 3 3 1	2 7	1 8	HV 4 8 0 0 2 0	5 7	3 8
HT 2 4 0 3 4 0	6 3	9	HV 4 8 0 0 3 0	5 1	1 4
HT 2 4 0 3 9 0	2 7	1 1	HV 4 8 0 0 3 0	5 3	2 5
HT 2 4 0 4 3 0	2 7	2 3	HV 4 8 0 0 3 0	5 5	1 1
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HT 2 7 0 0 3 0	3 1	1	HV 4 8 0 0 5 0	5 5	8
HT 2 7 0 0 4 0	3 1	4	HV 4 8 0 0 5 0	5 7	9
HT 2 7 0 0 6 2	3 1	2 5	HV 4 8 0 0 6 0	4 9	2 2
HT 2 7 0 0 7 0	2 9	3	HV 4 8 0 0 6 0	5 7	1 8
HT 2 7 0 0 8 0	3 1	1 1	HV 4 8 0 0 7 0	4 5	8
HT 2 7 0 0 9 0	3 1	1 4	HV 4 8 0 0 7 0	4 7	8
HT 2 7 0 1 0 0	3 1	1 0	HV 5 1 0 0 1 0	5 9	2 2
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HT 2 7 0 1 6 0	1 3	1 5	KC 2 2 0 6 5 0	1 1	1 3
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HT 2 7 0 6 4 0	3 1	2 0	KC 2 7 0 2 7 1	3 1	6
HT 3 3 0 0 0 1	4 1	4	KC 2 7 0 2 9 2	3 1	7
HT 7 1 0 0 0 0	6 1	3	KC 2 7 0 9 5 0	1 3	2 0
HV 3 1 0 0 1 0	5 5	1 8	KC 2 7 0 9 6 0	1 3	1 4
HV 3 1 0 0 2 0	3 5	1 3	KC 2 7 0 9 7 0	1 3	2 2
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HV 3 1 0 0 4 0	3 7	9	KC 2 7 1 0 0 1	1 3	1 2
HV 3 1 0 0 5 0	3 7	1 6	KC 2 7 1 4 3 0	3 3	1 2
HV 3 1 0 0 6 0	3 5	8	KC 2 7 1 4 4 0	3 3	1
HV 3 1 0 0 7 0	3 5	9	KC 2 7 1 9 4 0	1 3	7
HV 3 1 0 0 7 0	3 7	8	KC 2 7 1 9 5 0	1 3	6
HV 3 1 0 0 8 0	3 5	1	KC 3 2 0 8 2 0	3 5	1 2
HV 3 1 0 0 9 0	3 5	2	KC 3 2 0 8 2 0	3 7	2
HV 3 1 0 1 0 0	3 5	3	KC 3 3 0 1 7 0	3 9	3
HV 3 1 0 1 1 0	3 7	3	KC 3 3 0 1 8 0	3 3	3
HV 3 1 0 1 2 0	3 7	1 2	KC 3 3 0 2 8 0	3 9	2

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K C 3 3 0 5 1 0	3 3	9	KL 2 7 0 4 5 0	2 9	1 2
K C 5 2 0 0 2 0	5 9	1 8	KL 2 7 0 5 2 0	3 1	1 6
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K C 5 3 0 2 4 0	5 9	1 4	KN 2 7 1 7 5 0	3 3	7
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K F 2 3 0 6 3 0	4 1	1 9	KN 4 8 0 0 6 1	5 3	9
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