

# Barudan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

MODEL **BEMR-YS**  
**BEMS-YS**  
**BEMX-YS**

## PARTS LIST

**BARUDAN CO., LTD.**

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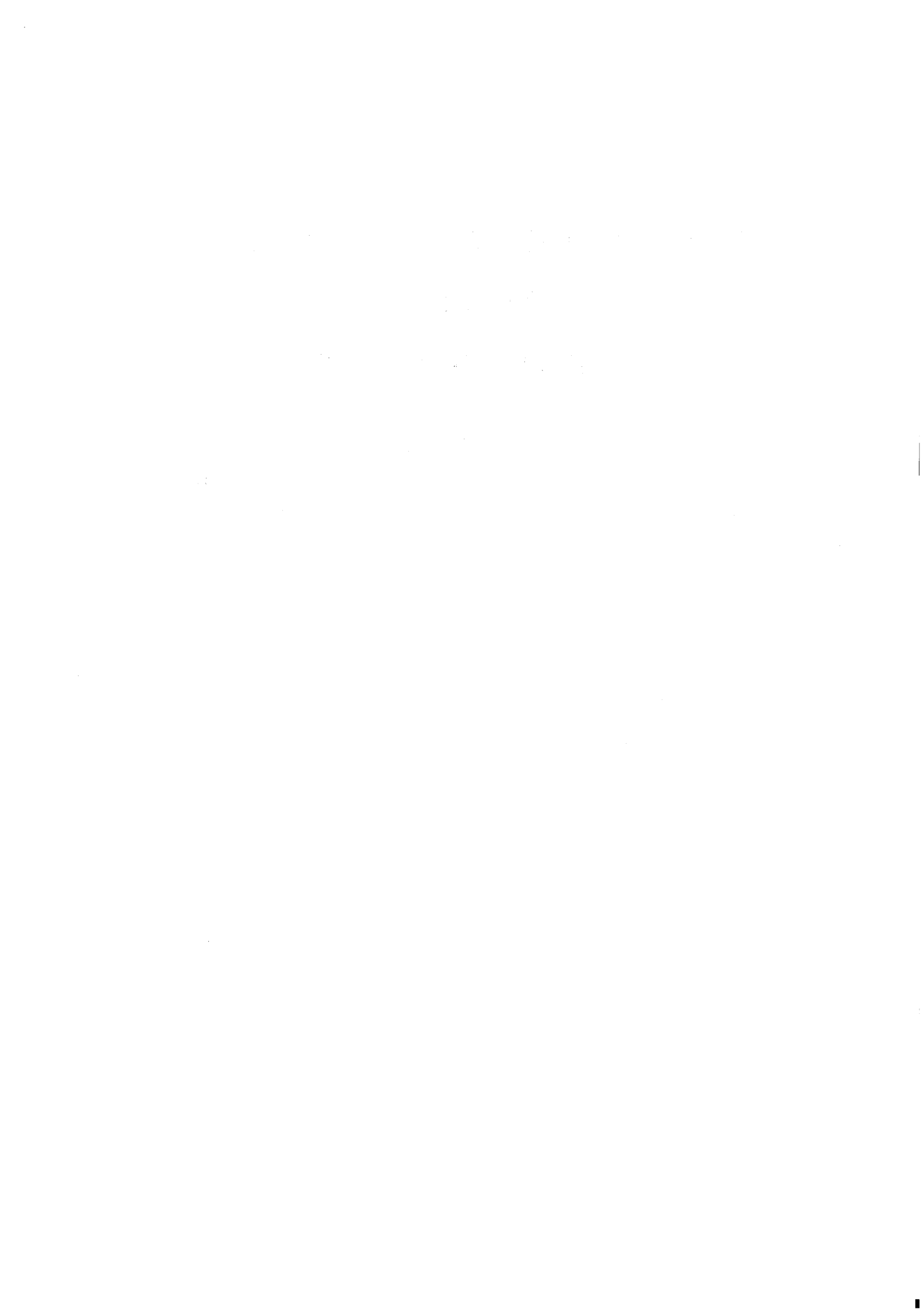


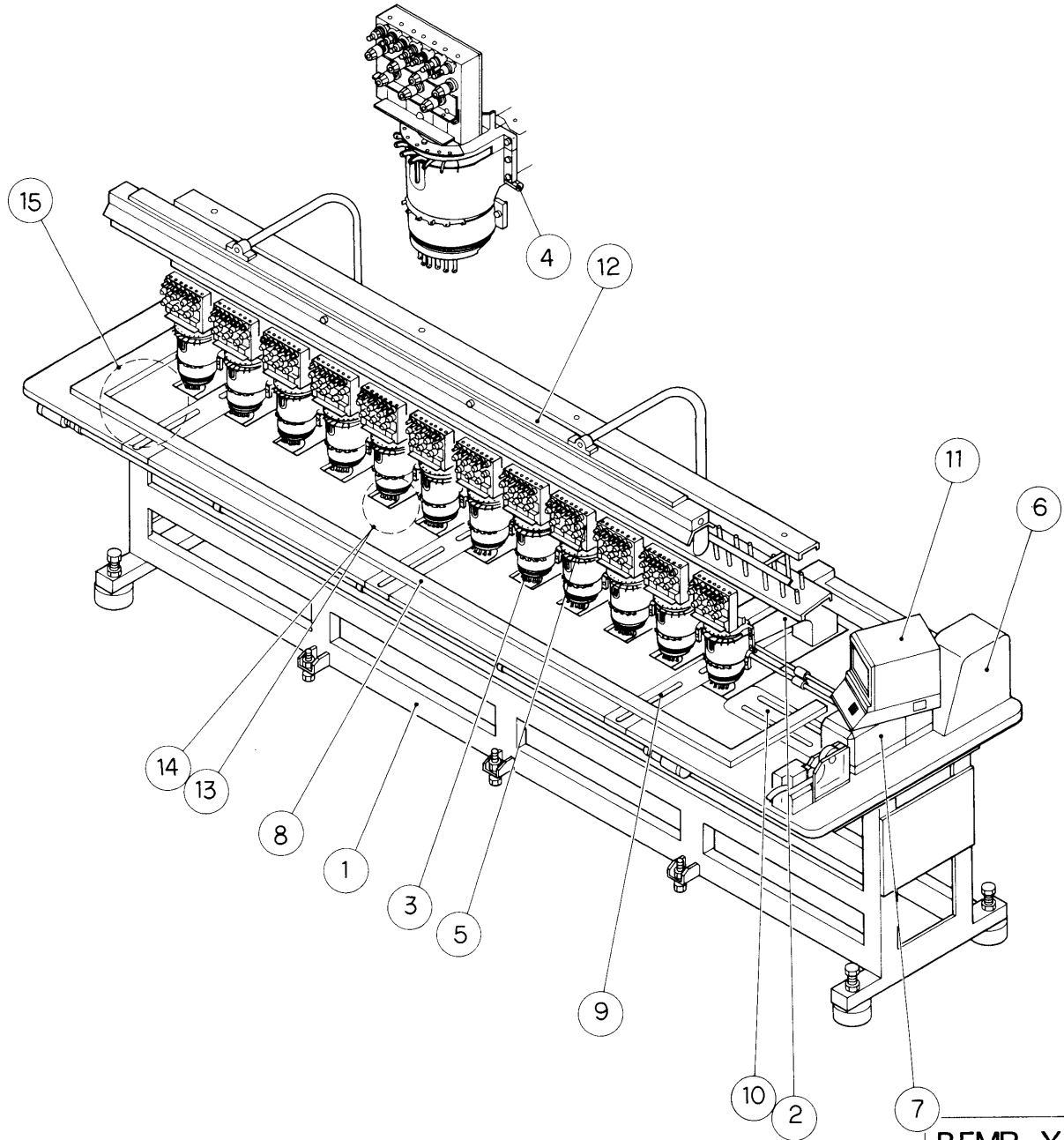
BEMR-YS • BEMS-YS  
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HIGH SPEED AUTOMATIC EMBROIDERY  
MACHINE PARTS LIST

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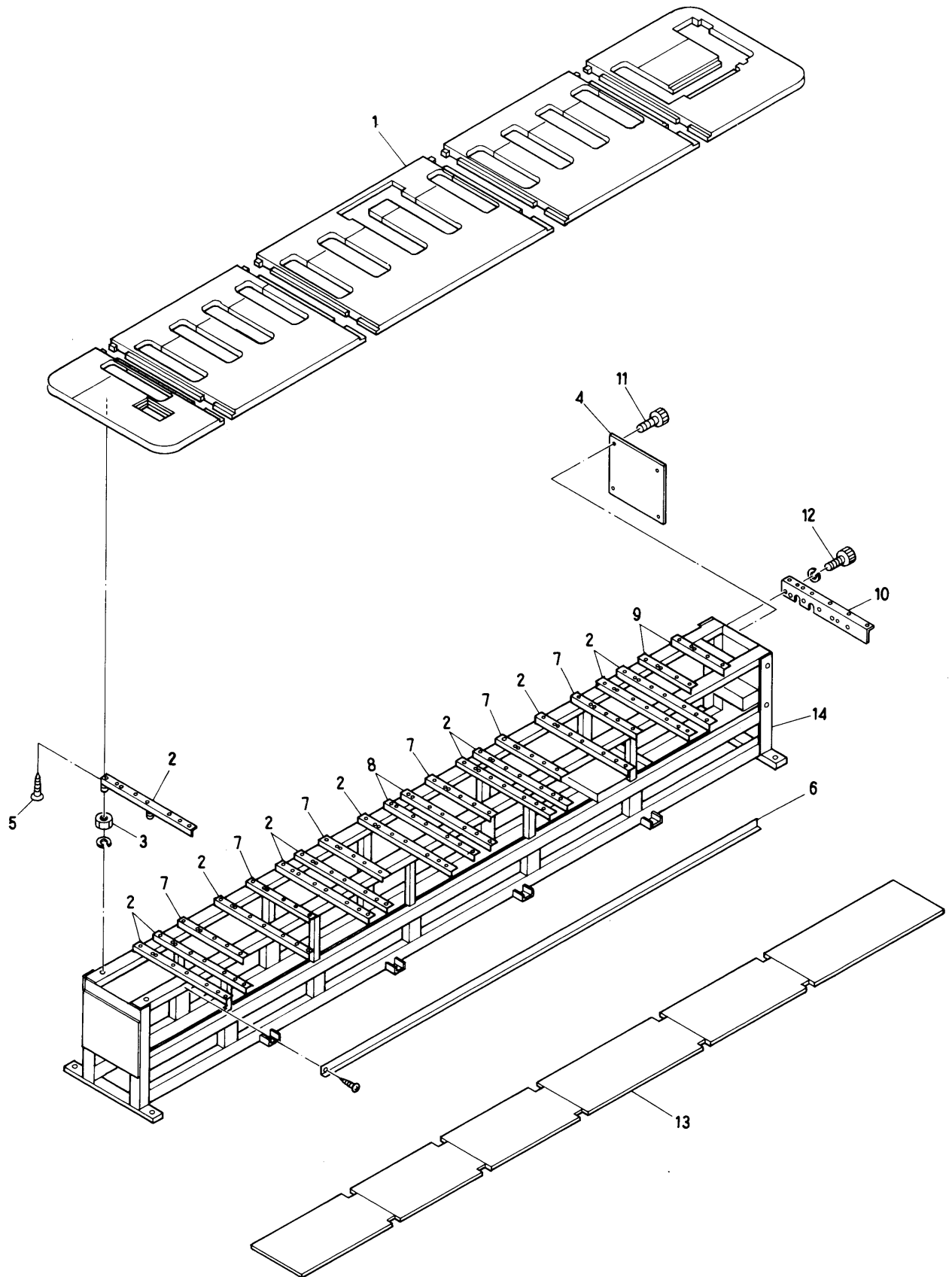
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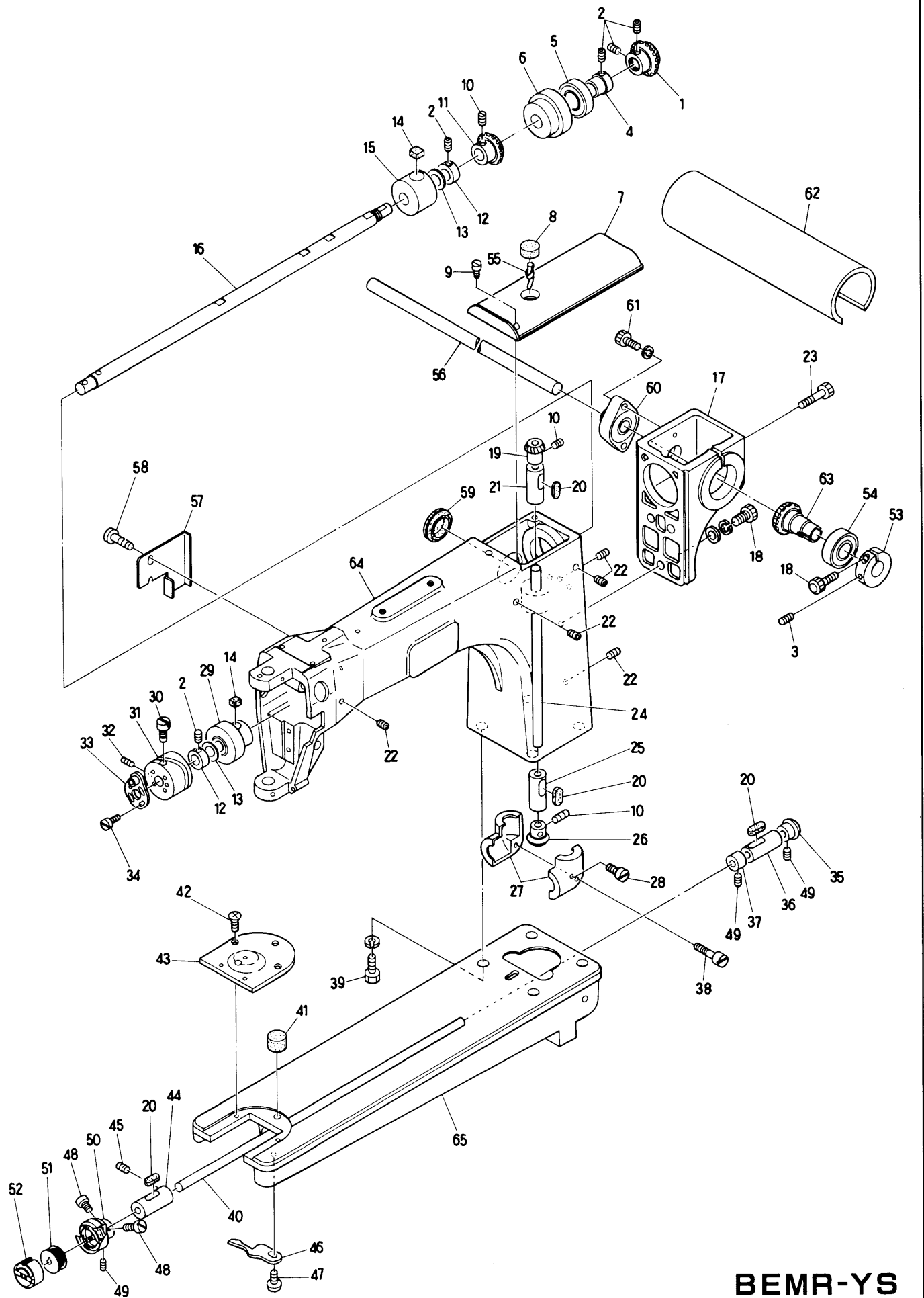
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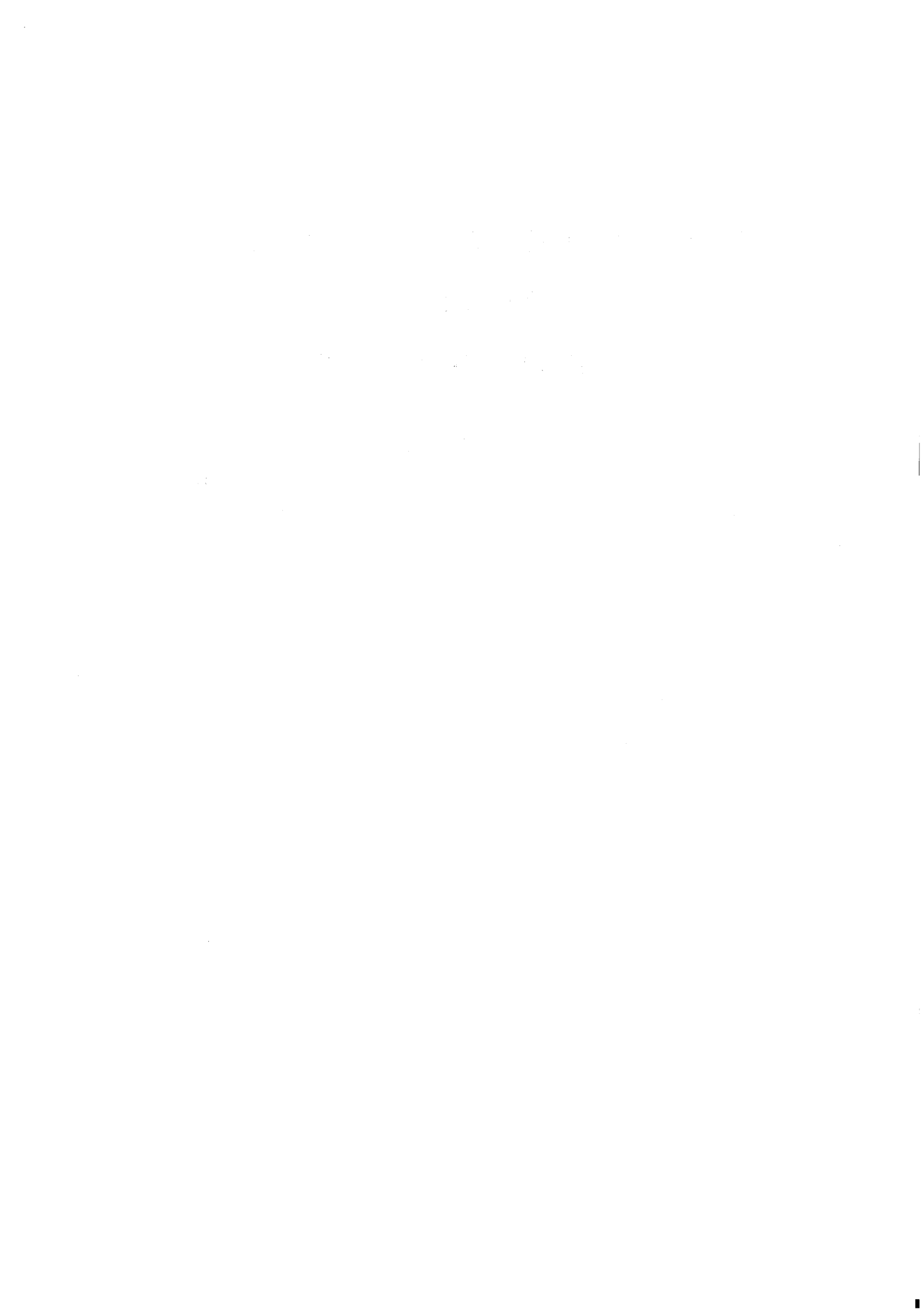


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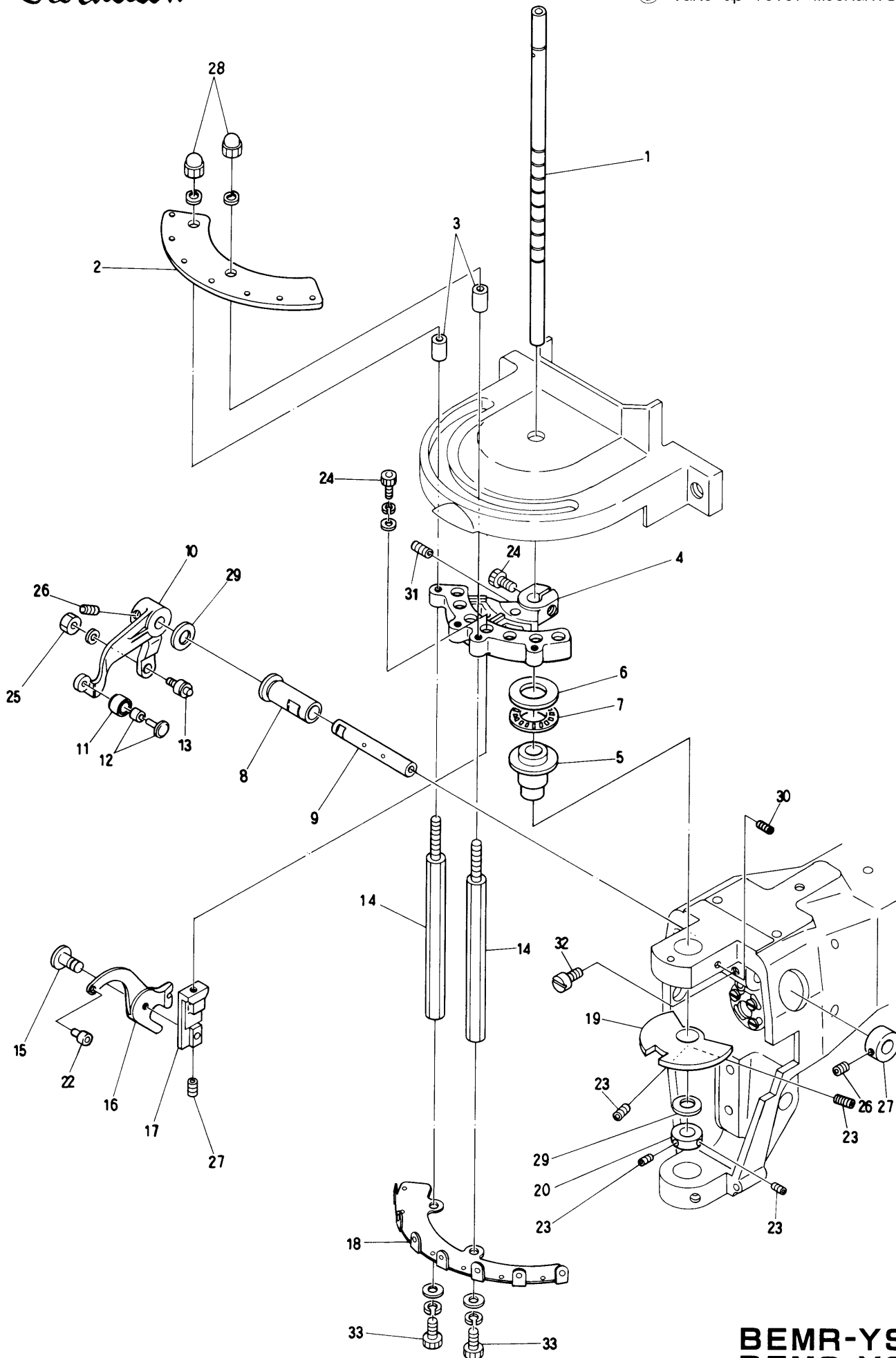


② Sewing head a'ssy

ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	KL 2 2 0 1 0 0	Top shaft gear	1	
2		Hex. socket set screw M6×6		
3		Hex. socket set screw M6×10		
4	KL 2 2 0 0 9 0	Top shaft bearing collar	1	
5	A 9 0 1 0 0 1 7	Bearing (6004ZZ)	1	
6	KL 2 2 0 0 4 0	Top shaft bearing case	1	
7	KL 2 5 0 0 4 0	Arm top cover	1	
8	KL 2 2 0 1 5 0	Oil felt D	1	
9		Screw M4×10		
10		Screw (SM1/4 40×4)		
11	KF 2 2 0 1 3 0	Bevel gear (Top shaft)	1	
12	KL 2 2 0 0 8 0	Top shaft collar	2	
13	HP 2 3 1 3 9 0	Thrust washer (Top shaft gear)	2	
14	KL 2 2 0 1 3 0	Oil felt B	2	
15	KL 2 2 0 0 3 0	Top shaft metal (Middle)	1	
16	KL 2 2 0 0 0 0	Top shaft	1	
17	KL 2 1 0 1 4 0	Arm gear case	1	
18		Hex. socket bolt M6×25		
19	KF 2 2 0 4 6 0	Bevel gear (Vertical shaft upper)	1	
20	KL 2 2 0 1 4 0	Oil felt C	4	
21	KL 2 2 0 0 5 0	Vertical shaft metal (upper)	1	
22		Hex. socket set screw M6×8		
23		Hex. socket bolt M6×60		
24	KL 2 2 0 0 1 0	Vertical shaft		
25	KL 2 2 0 0 6 0	Vertical shaft (Lower)	1	
26	KF 2 2 0 4 7 0	Bevel gear (Vertical shaft lower)	1	
27	KF 2 2 0 2 7 0	Gear cover set	1	
28		Screw (SM15/64 28×24)		
29	KL 2 2 0 0 2 0	Top shaft metal (Front)	1	
30	KF 2 3 0 4 2 0	Cam set screw	1	
31	KB 2 3 0 0 3 0	Take up lever cam K6	1	For small bobbin
	KB 2 3 0 0 4 0	Take up lever cam L1	1	For middle bobbin
32		Screw (SM15/64 28×10)		
33	KB 2 3 0 0 5 0	90° Clamping	1	
34	A 9 0 1 2 0 0 7	Screw	6	
35	KF 2 2 0 4 8 0	Bevel gear (Bottom shaft)	1	
36	KL 2 2 0 0 7 0	Bottom shaft metal (Rear)	1	
37	KF 2 2 0 2 9 0	Bottom shaft collar	1	
38		Screw (SM9/32 20×38)		
39		Hex. bolt M12×35		
40	KC 2 2 0 2 1 0	Bottom shaft	1	
41	KL 2 2 0 1 2 0	Oil felt A	1	
42	KF 2 5 0 9 0 0	Needle plate set screw (SM11/64 40×7)	2	
43	KN 2 5 0 1 3 1	Needle plate	1	
44	KF 2 2 0 2 3 0	Bottom shaft(Front)	1	

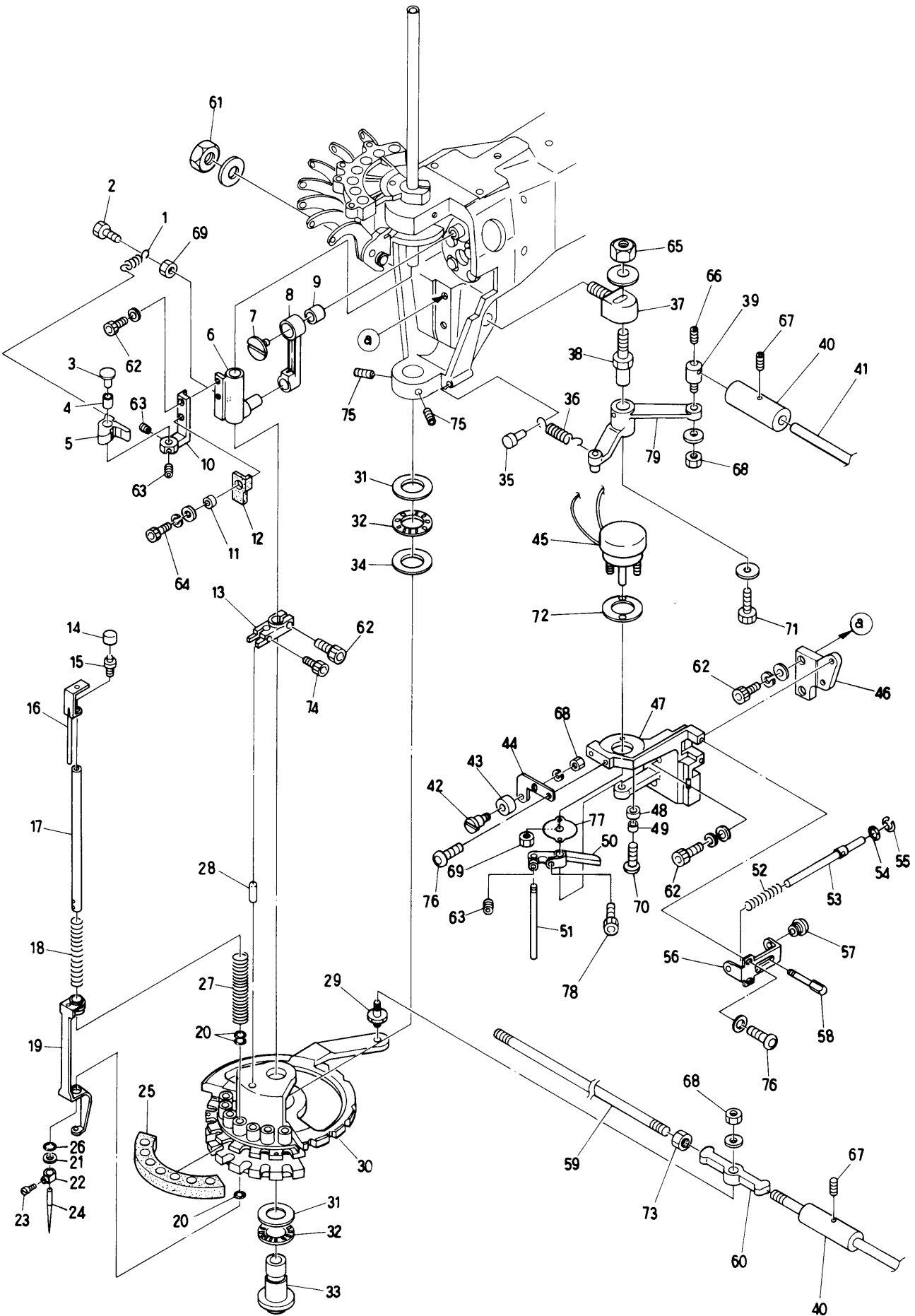






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④ Needle bar ▪ Jump mechanism (※Change the LIST No. by machine type)

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
1	HB230400	Needle bar driver return spring	1	
2	HB230590	Screw for return spring	1	
3	HB230390	Needle bar driver fixing pin	1	
4	A9012190	DU Bush (MBO606DU)	1	
5	HB230381	Needle bar driver	1	
6	KB230080	Needle bar driver guide block	1	
7	KB230070	90° Crank left-handed screw	1	
8	KB230060	Crank rod	1	
9	A9011115	Needle bearing (K9×12×10T2)	1	
10	HB230371	Needle bar driver fixing base	1	
11	HB230420	Needle bar driver stopper set collar	1	
12	HB230414	Needle bar driver stopper	1	
13	HB230170	Driving shaft fixed plate	1	
14	KN231350	Needle bar cap	N×1	
15	HB230531	Needle bar guide fitting screw	N×1	
16	HB230521	Needle bar guide	N×1	
17	HB230510	Needle bar	N×1	
18	HB230540	Needle bar spring (upper)	N×1	
19	KG230020	Pressure foot	N×1	
20	KF230910	O-Ring (S)	N×3	
21	KF230930	Spacer	N×1	
22	KF230230	Needle Clamp	N×1	
23	KF230240	Needle clamp screw (SM9/64 40)	N×1	
24	KF230250	Needle (DBK5-11)	N×1	
25	KN231700	Turret plate oil pad	1	
26	KF230920	O-Ring (L)	N×1	
27	KF230210	Pressure foot spring	N×1	
28	A9012291	Parallel pin $\phi 5 \times 14 \ell$	1	
29	HB230550	Turret plate joint pin	1	
30	HB230441	Turret plate (5)	1	
	HB230431	Turret plate (7)	1	
31	A9011023	Thrust bearing outer (GS1528)	2	
32	A9011021	Thrust bearing (NTB-1528)	2	
33	HB230140	Driver shaft under metal	1	
34	A9011022	Thrust washer (AS-1528)	1	
35	KF230670	Lock lever spring pin	1	
36	KF230661	Lock lever spring	1	
37	KF230650	Lock lever bracket	1	
38	KF230630	Lock lever shaft	1	
39	KF230640	Lock connecting bar clamp	1	
40	KF330381	Lock bar hand grip	2	
41	KC330410	Lock connecting rod (2M)	3	
42	HB230460	Needle bar stopper fixixed pin	1	
43	HB230470	Needle bar stopper	1	
44	KB230170	Needle bar stopper fixed bracket	1	

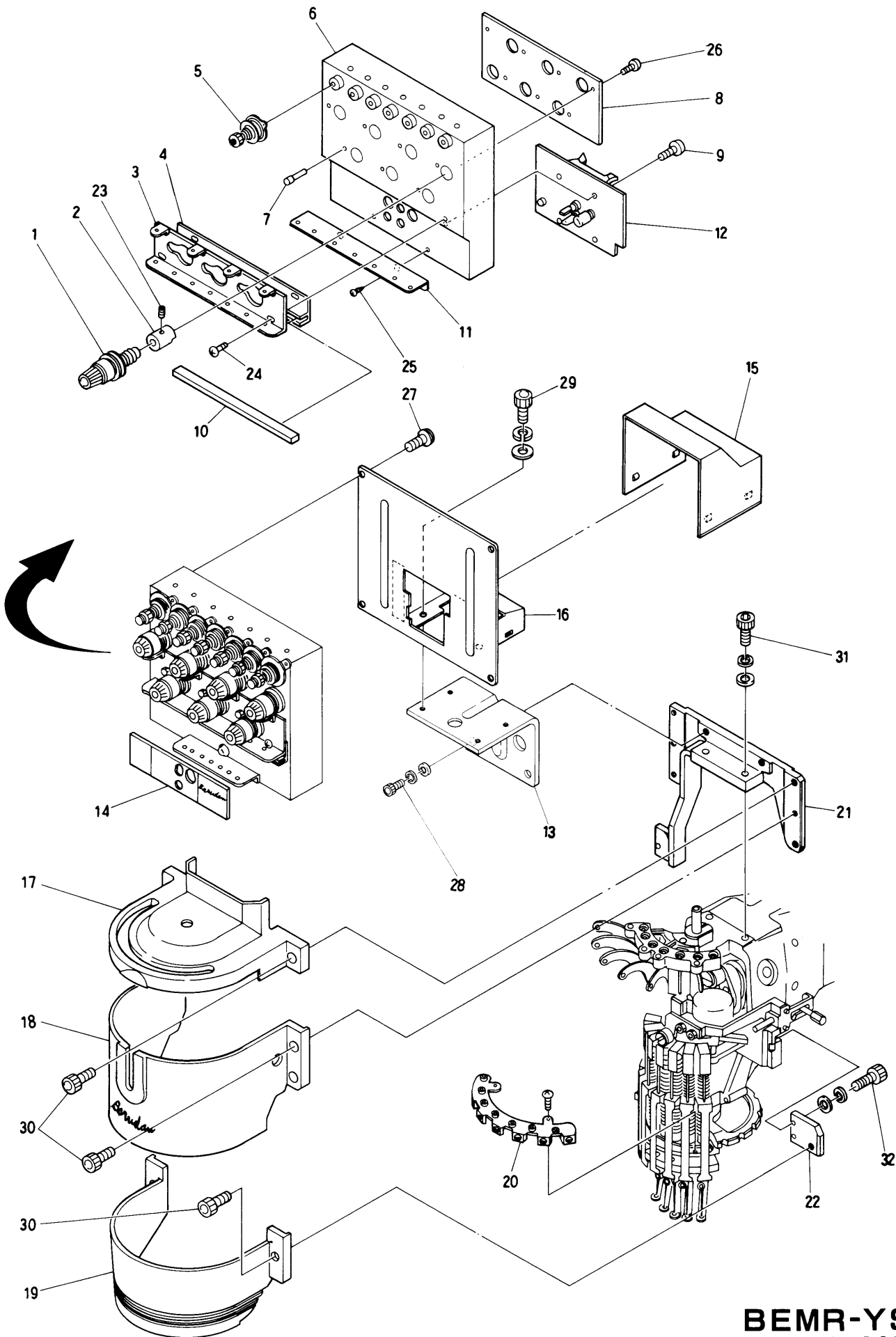






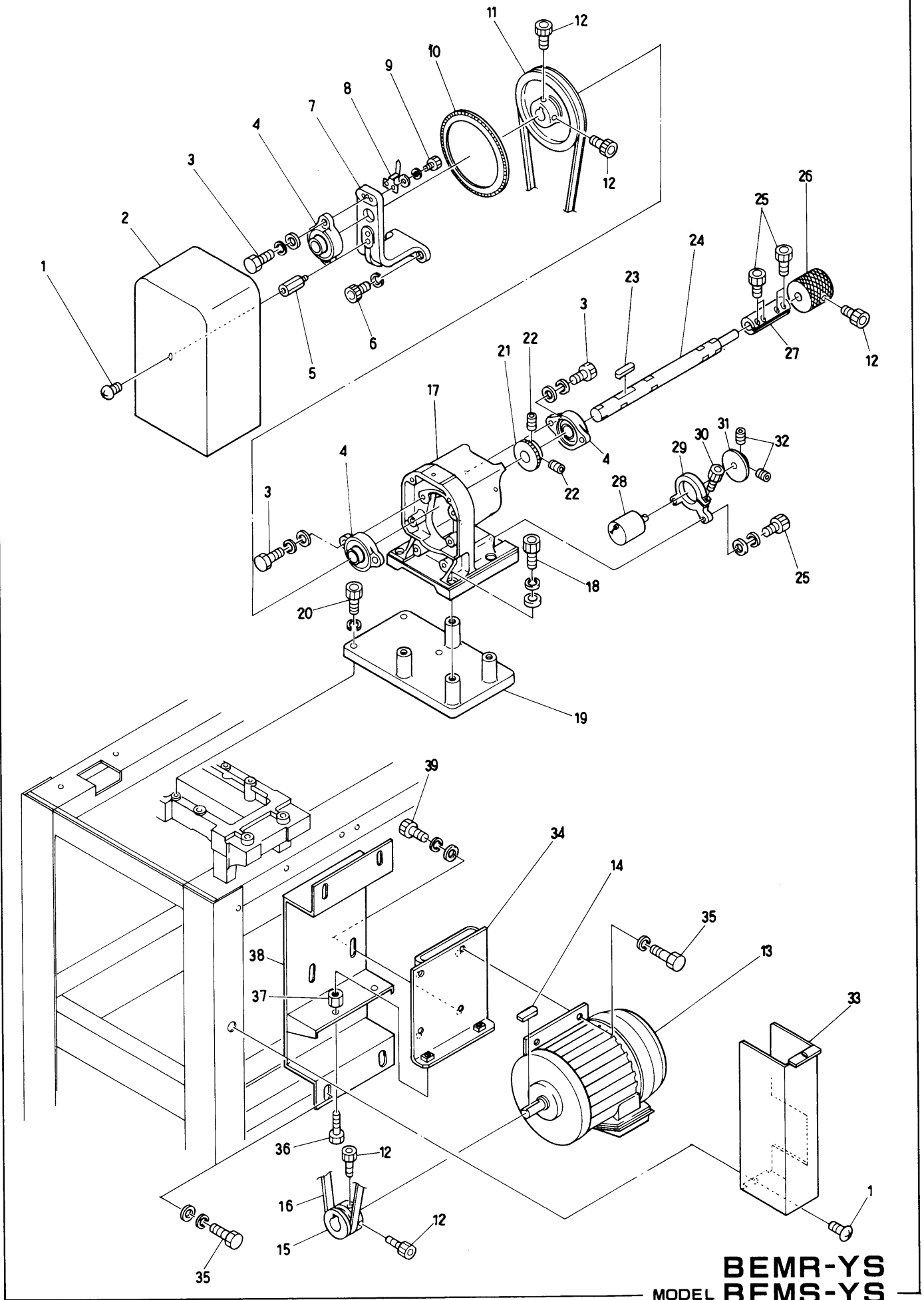
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⑤ Thread guide mechanism(7•5)



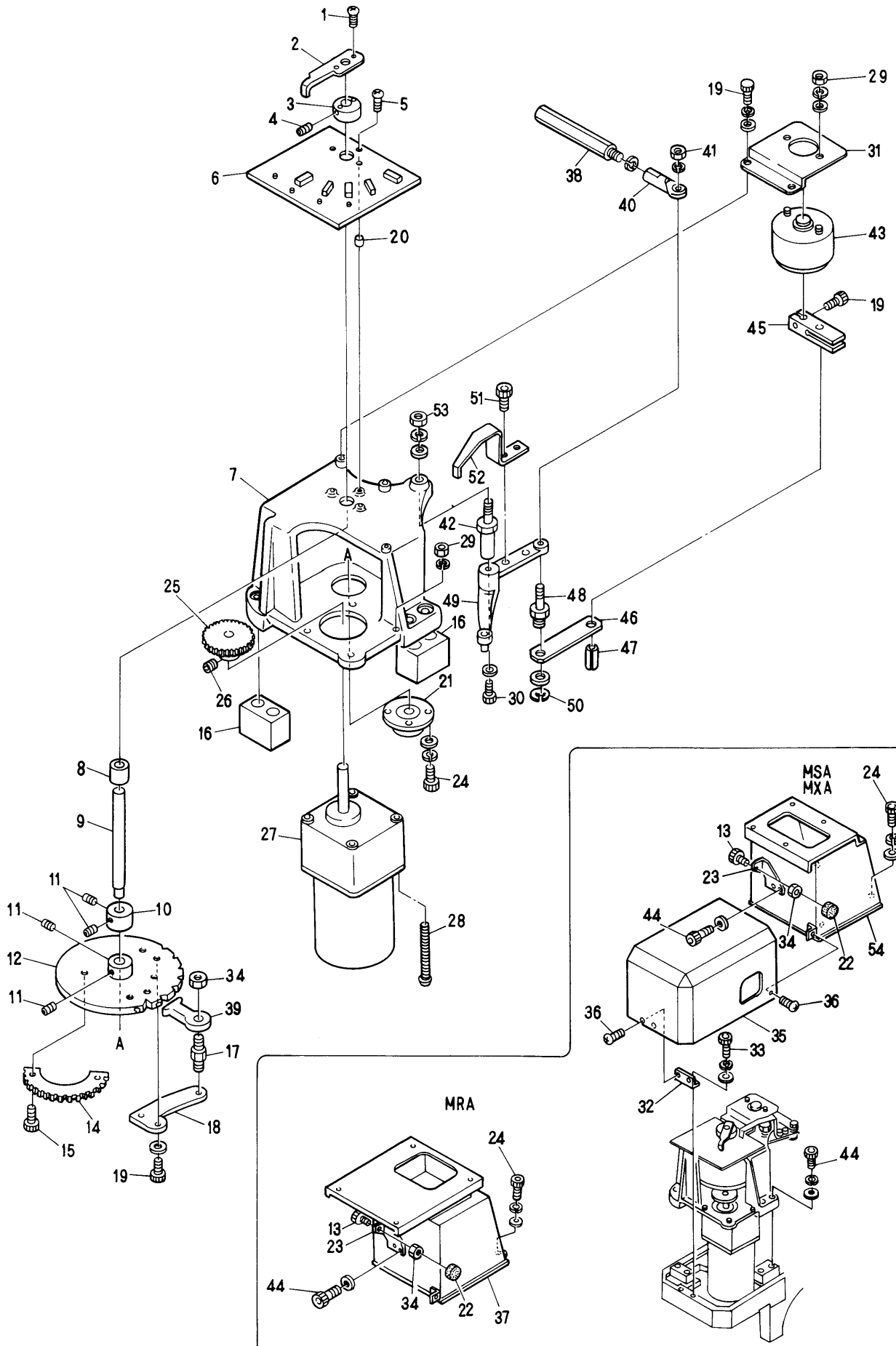
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⑦ Color change mechanism

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1		Flush screw M3×8		
2	KC330280	Detection plate	1	
3	KC330170	Detection plate collar	1	
4		Hex.socket set screw M5×10		
5		Flush screw M3×12		
6	EBY00180	3740 Needle positiner	1	
7	KC330130	Needle turning	1	
8	KC330190	Oil-less metal	1	
9	KC330160	Needle turning shaft	1	
10	KC330180	Collar φ10	1	
11		Hex.socket set screw M5×6		
12	KG330150	Control turning plate	1	
13		Hex.socket bolt M5×30		
14	KG330220	Needle turning gear No.2	1	
15		Hex.socket bolt M5×12		
16	KL330050	Unit base spacer	2	
17	KF230360	Turret plate joint pin	1	
18	KL330040	Turret plate lever	1	
19		Hex.socket bolt M5×15		
20	A9012208	Spacer 4×4	3	
21	KC330610	Oil-less bearing (OCHIAI) S/S LSB-G8-080V	1	
22	KF230150	Needle bar cap	1	
23	KL330020	Lock lever stopper	1	
24		Hex.socket bolt M6×12		
25	KC330210	Needle turning gear No.1 (0.8M50T)	1	
26		Hex.socket set screw M4×8		
27	KC330810	Geard moter (RM-F6A5PC3-AS-120)	1	
28		Flush screw M4×65		
29		Hex.nut M4		
30		Hex.socket bolt M5×12		
31	KC330260	Bracket lock rotary	1	
32	KC330910	Cover bracket	1	
33		Hex.socket bolt M5×10		
34		Hex.nut M5		
35	KL330010	Cover	1	
36		Truss screw M4×8		
37	KN332010	Automat bace(BEMRA)	1	
38	KC330510	Hex.connecting bar (L)	1	
39	A9012001	Uniball joint (NMB RD4 020R)	1	
40	A9012002	Uniball joint (NMB PR-6)	1	
41		Hex.nut M16		
42	KF230630	Lock lever shaft	1	
43	KC330850	Rotary solenoid 6SR-25 (27×4×9)	1	
44		Hex.socket bolt M6×30		
45	KN330240	Lock solenoid lever	1	

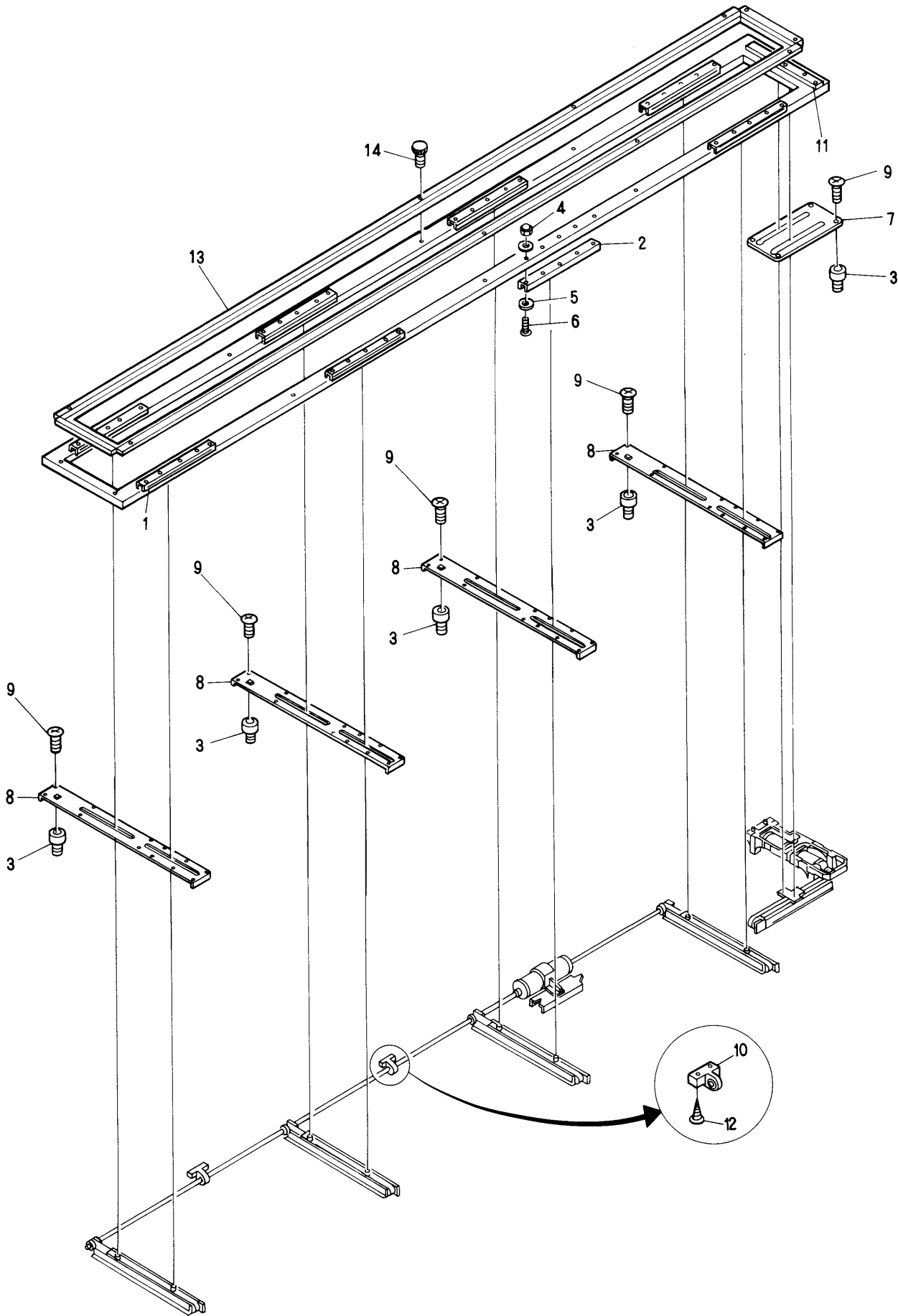






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⑧ Pantograph drive mechanism I (V · H-Direction)

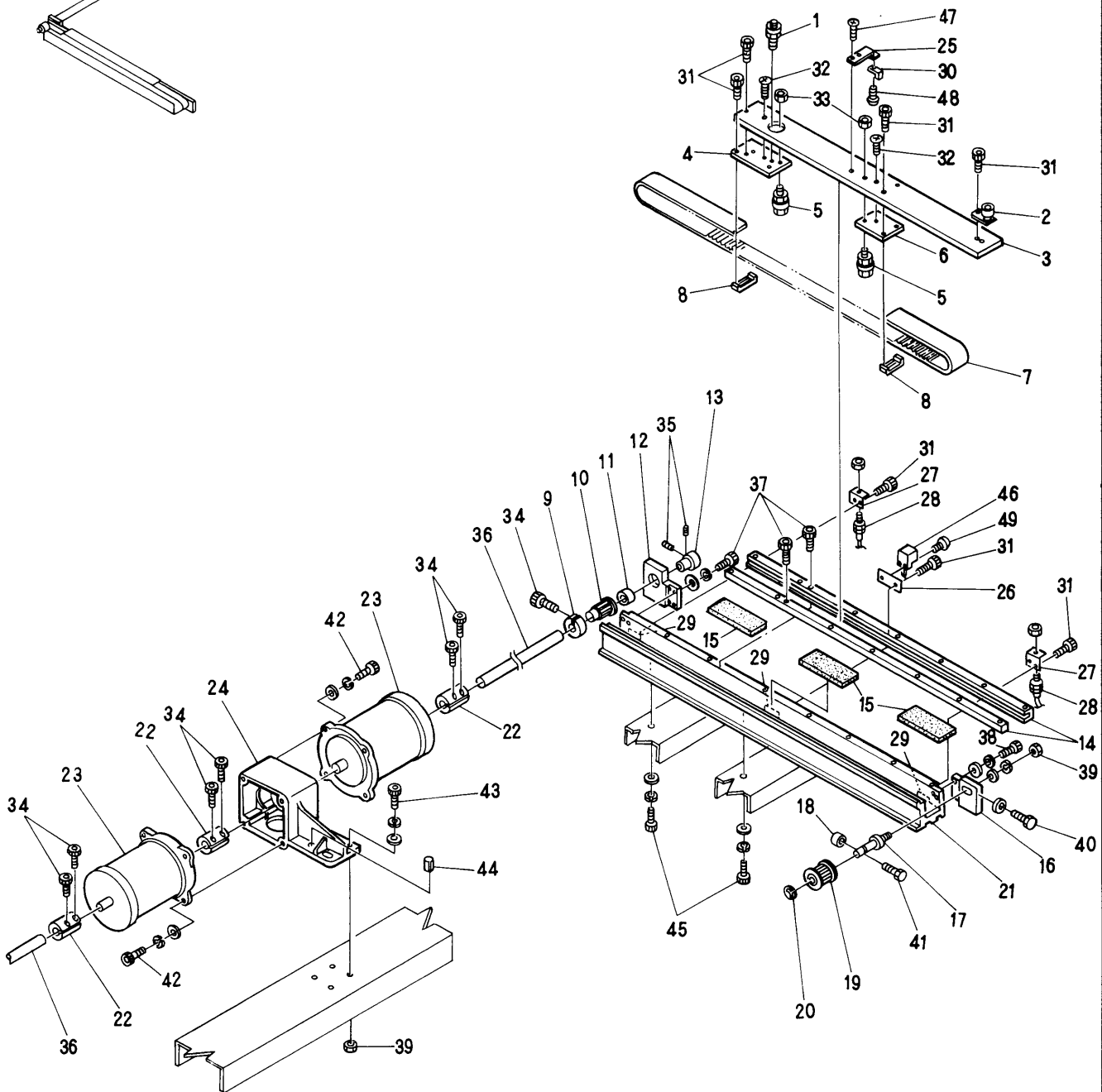
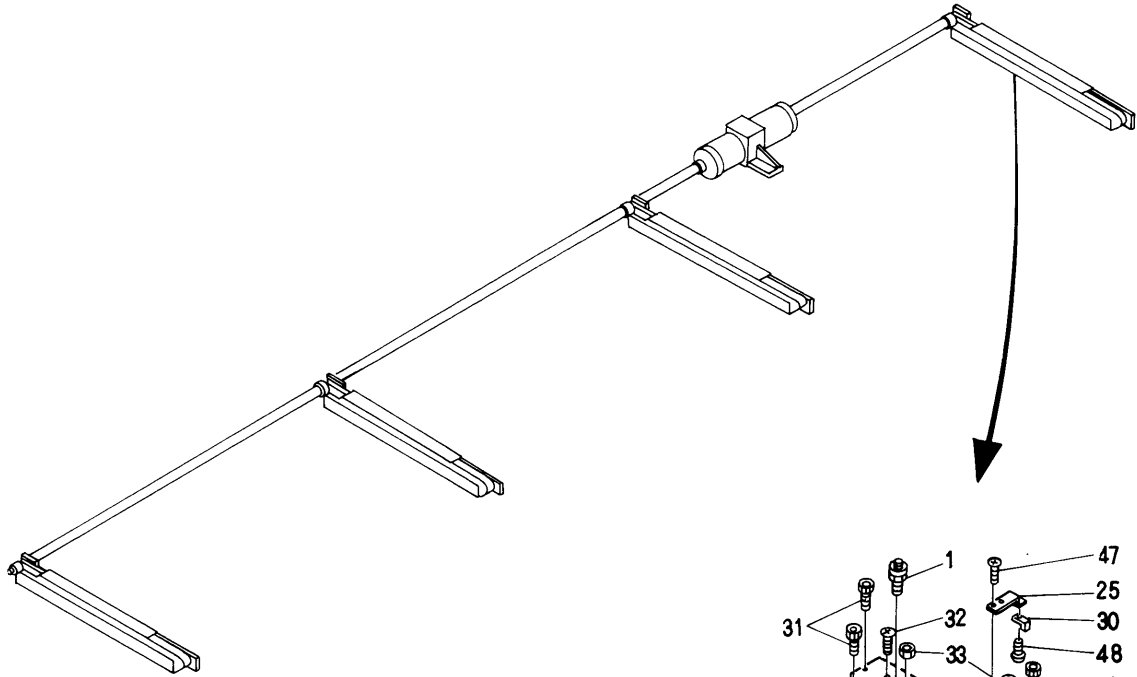


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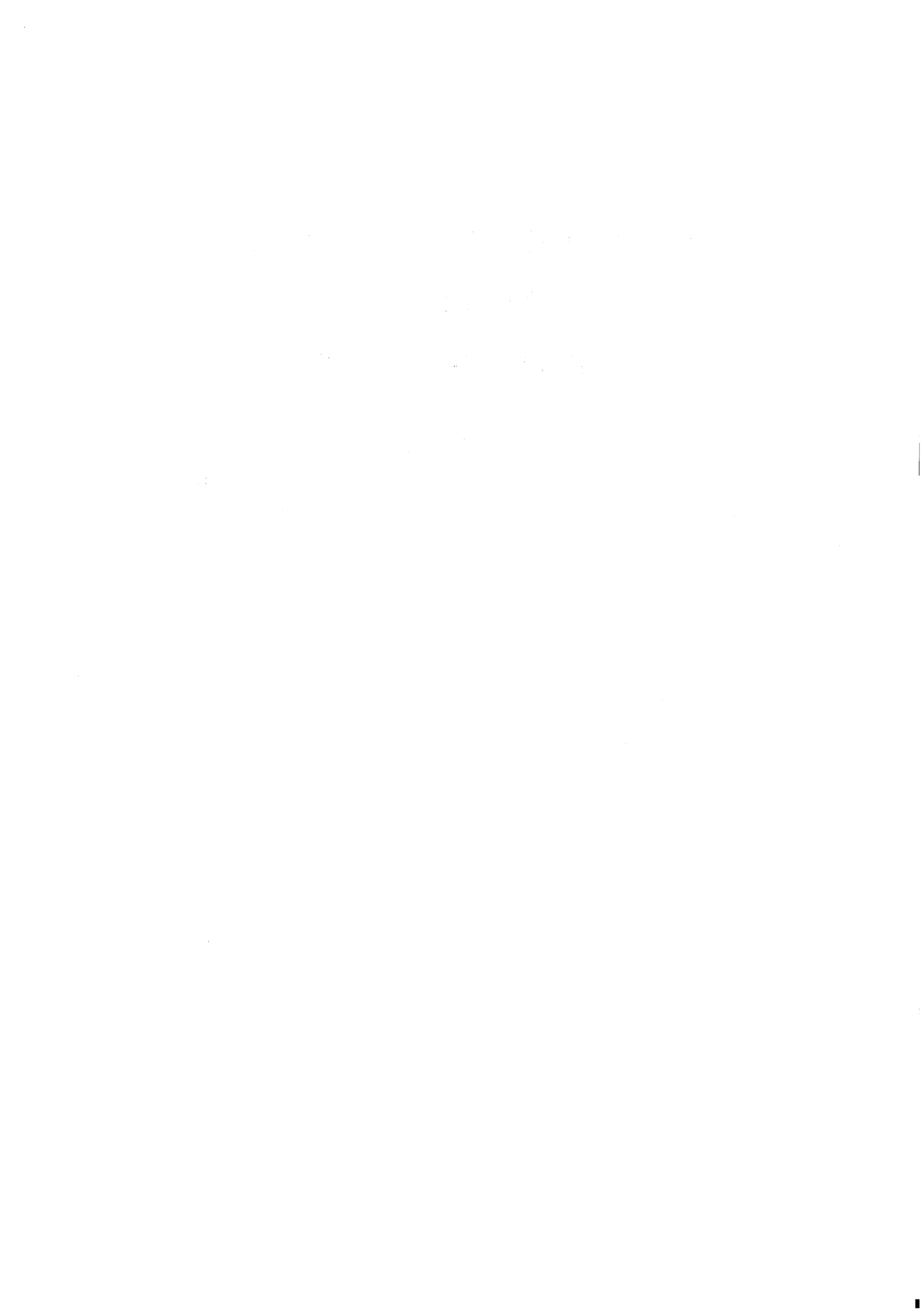
⑨ Pantograph drive mechanism II (H-Direction)



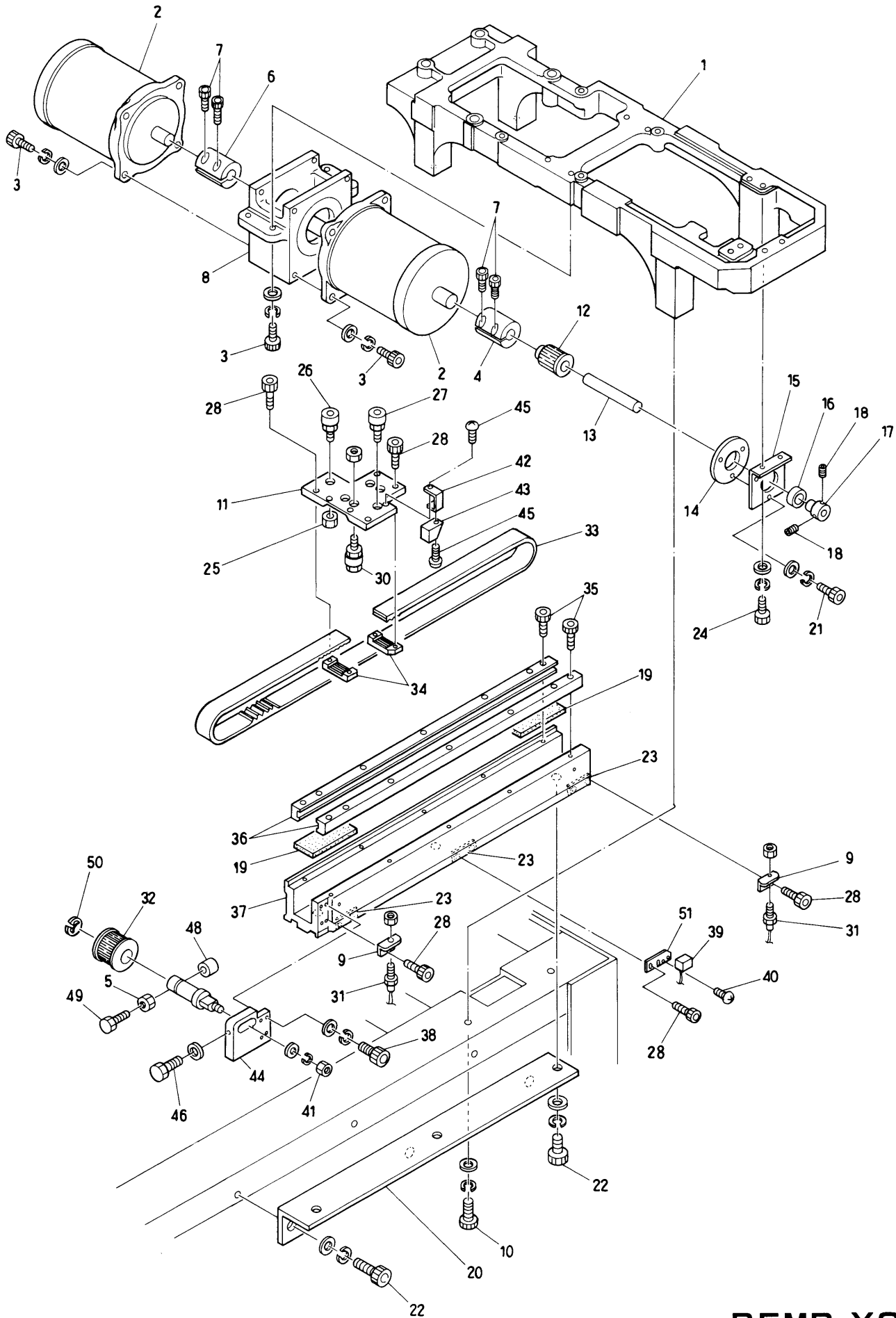
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⑨ Pantograph drive mechanism II (H-Direction)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HP 4 8 3 3 7 0	Guide rail bearing pin a'ssy	1	
2	HP 4 8 3 3 9 0	Guide rail bearing pin a'ssy (H)	1	
3	KN 4 8 3 4 4 2	H-member connecting channel (BESR, BEAT)	1	
	KN 4 8 3 4 6 0	H-member connecting channel (SR・AT)	1	
4	KN 4 8 2 8 7 1	H rollar base (rear)	1	
5	HP 4 8 2 9 5 0	Rollar pin a'ssy A	8	
6	KN 4 8 2 8 8 0	H rollar base (Front)	1	
7	A 9 0 2 0 0 9 8	Timing belt (300S5M2000)	1	
8	HP 4 8 2 9 4 0	Timing belt rack(5M)	2	
9	HH 4 8 1 9 8 0	φ19 Clamping	1	
10	HP 4 8 2 9 9 0	Pantograph driving pulley (Rear) (S5M)	1	
11	A 9 0 1 1 0 6 3	Needle bearing (TLA2016)	1	
12	KN 4 8 2 0 1 0	H guide rear pulley bracket	1	
13	HH 4 8 1 9 7 0	Pulse motor connecting shaft collar	1	
14	KN 4 8 3 4 5 0	V guide rail(L=660)	2	
15	KN 4 8 0 0 6 1	Rail base felt (SR100×38×6)	3	
16	KN 4 8 2 0 0 0	H guide front pulley bracket	1	
17	HH 4 8 1 9 9 1	Timing pulley shaft	1	
18	HH 4 8 2 1 1 0	Pulley shaft bolt cap	1	
19	HP 4 8 2 9 8 0	Pantograph driving pulley (Front) (S5M)	1	
20	A 9 0 1 2 0 5 2	E-ring (φ10)	1	
21	KN 4 8 3 4 0 0	H guide rail base (BESR)	1	
22	HH 4 8 1 9 3 1	Pulse motor coupling	3	
23	HH 4 8 1 9 0 0	Pulse motor (4M)	2	
24	KN 4 7 0 1 5 1	H pulse motor bracket	1	
25	KU 4 6 0 3 4 2	H Pantograph origin point magnet bracket	1	
26	KN 4 5 0 3 0 0	MH-601A Promixity switch fixing bracket	1	
27	MT 4 6 0 2 4 0	RS-001 bracket (V)	2	
28	A 9 0 5 2 0 2 4	Switch RS-001	2	
29	KU 4 6 0 2 7 0	Plate nut (M3)	3	
30	A 9 0 5 2 0 3 0	Magnet (M-102A-02)	1	
31		Hex.socket bolt M4×6		
32		Pan screw M4×8		
33		Hex,nut M5		
34		Hex.socket bolt M5×18		
35		Hex.socket set screw M5×8		
36		Pulse motor connecting shaft φ15	2	
37		Hex.socket bolt M4×15		
38		Hex.socket bolt M4×18		
39		Hex,nut M8		
40		Hex.socket bolt M4×25		
41		Hex.socket bolt M4×40		
42		Hex.socket bolt M6×25		
43		Hex.socket bolt M8×40		
44		Roll pin φ4×30	2	





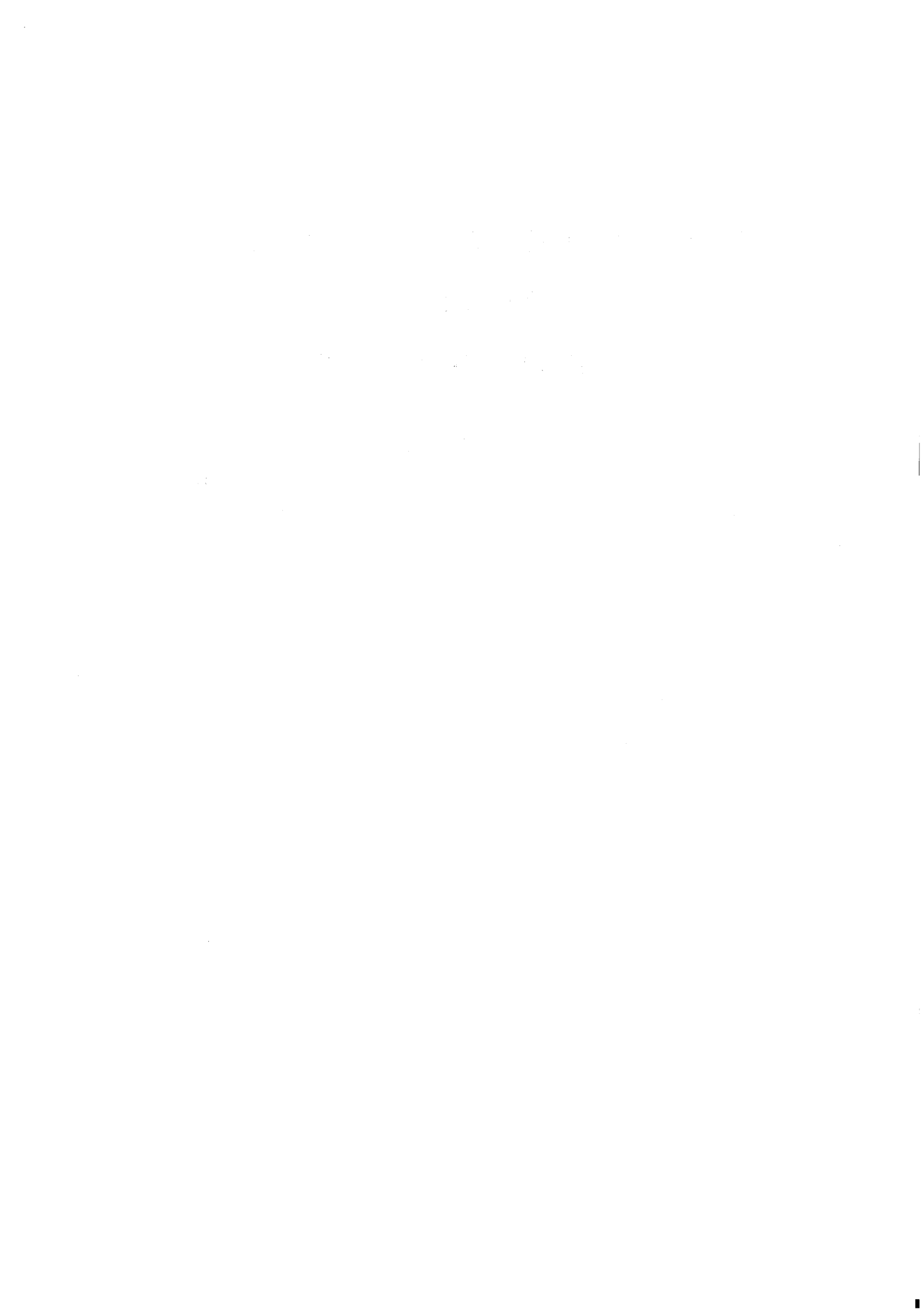


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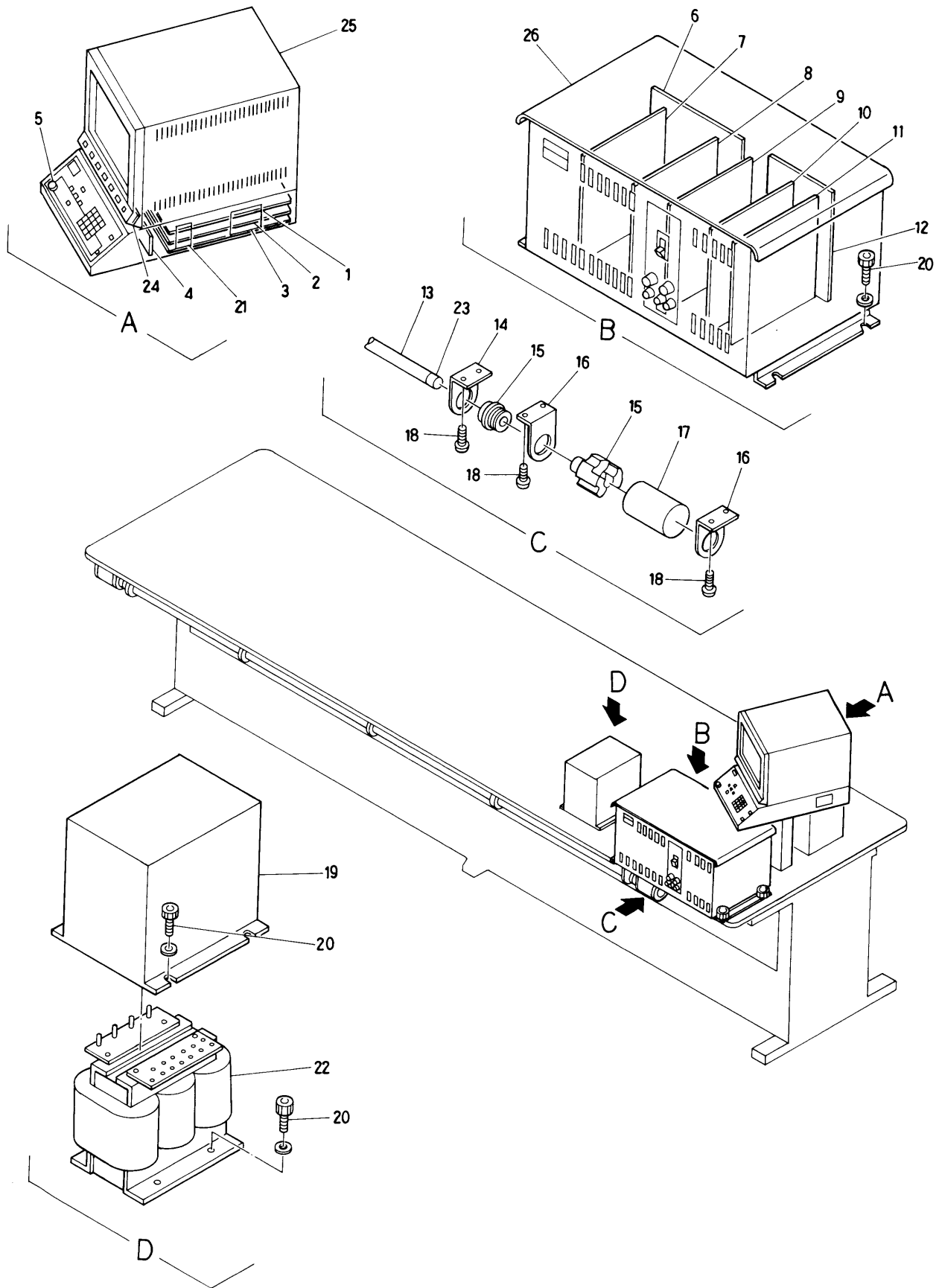


⑩ Pantograph drive mechanism III (V-Direction) (※Change the LIST No. by machine type)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KN 3 3 0 1 1 0	Contorol unit base	1	
2	HH 4 8 1 9 0 0	Pulse motor (4M)	2	
3		Hex. socket bolt M6×25		
4	KN 4 9 0 1 5 0	V Pulse motor coupling	1	
5		Hex. nut M4		
6	HH 4 8 1 9 3 1	Pulse motor coupling	1	
7		Hex. socket bolt M5×28		
8	KN 4 7 0 1 6 1	V Pulse motor bracket	1	
9	MT 4 6 0 2 4 0	RS-001 Bracket (V)	2	
10		Hex. socket bolt M8×20		
11	KN 4 8 2 8 9 0	V roller base	1	
12	HP 4 8 2 9 9 0	Pantograph driving pulley (rear) (S5M)	1	
13	KN 4 9 0 1 4 0	V timing belt shaft	1	
14	KN 4 9 0 1 3 0	V timing belt shaft bearing husing	1	
15	KN 4 9 0 1 2 1	Bearing bracket	1	
16	A 9 0 1 1 0 6 3	Needle bearing (TLA2016)	1	
17	HH 4 8 1 9 7 0	Pulse motor connecting shaft collar	1	
18		Hex. socket set screw M5×8		
19	KN 4 8 0 0 6 1	Rail base felt (SR100×38×6)	2	
20	KC 4 7 0 4 6 0	V guide rail base bracket	1	※
21		Hex. socket bolt M4×8		
22		Hex. socket bolt M8×20		
23	KU 4 6 0 2 7 0	Plate nut (M3)	3	
24		Hex. socket bolt M5×12		
25		Hex. nut M3		
26	HP 4 8 3 1 1 1	Guide rail bearing pin a'ssy B	1	
27	HP 4 8 3 3 7 0	Guide rail bearing pin a'ssy	1	
28		Hex. socket bolt M3×6		
29		Hex. nut M5		
30	HP 4 8 2 9 5 0	Roller pin a'ssy A	4	
31	A 9 0 5 2 0 2 4	Switch RS-001	2	
32	HP 4 8 2 9 8 0	Pantograph drive pulley (Front) (S5M)	1	
33	A 9 0 2 0 0 9 8	Timing belt (300S5M2000)	1	
34	HP 4 8 2 9 4 0	Timing belt rack (5M)	2	
35		Hex. socket bolt M4×15		
36	HP 4 8 3 4 5 0	V guide rail(L=660)	2	※
37	KN 4 8 3 4 1 0	V guide rail base (stroke 350)	1	※
38		Hex. socket bolt M4×18		
39	A 9 0 5 2 0 3 1	Magnetic memory promixing switch (MH-601A)	1	
40		Flush screw M3×10		
41		Hex. nut M8		
42	KN 4 5 0 3 1 1	V Pantograph origin point magnet bracket	1	
43	A 9 0 5 2 0 3 0	Magnet (M-102A-02)	1	
44	KN 4 8 2 0 0 0	H guide front pulley bracket	1	
45		Truss screw M3×6		

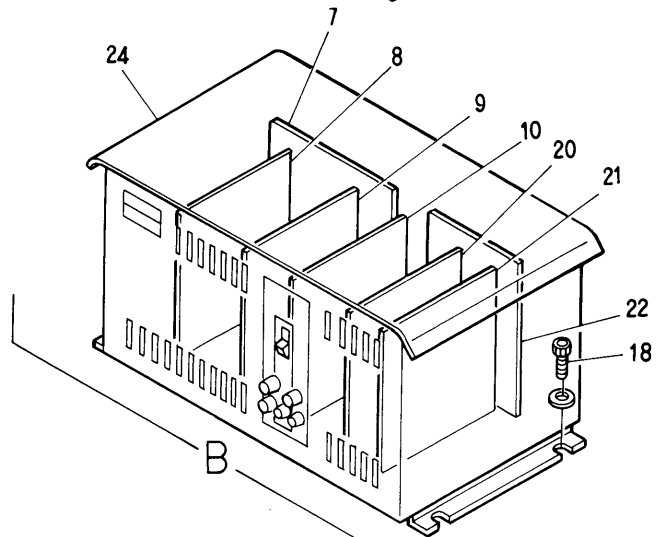
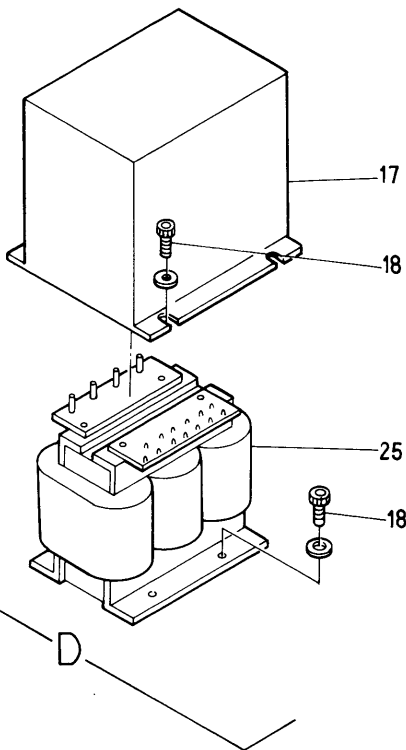
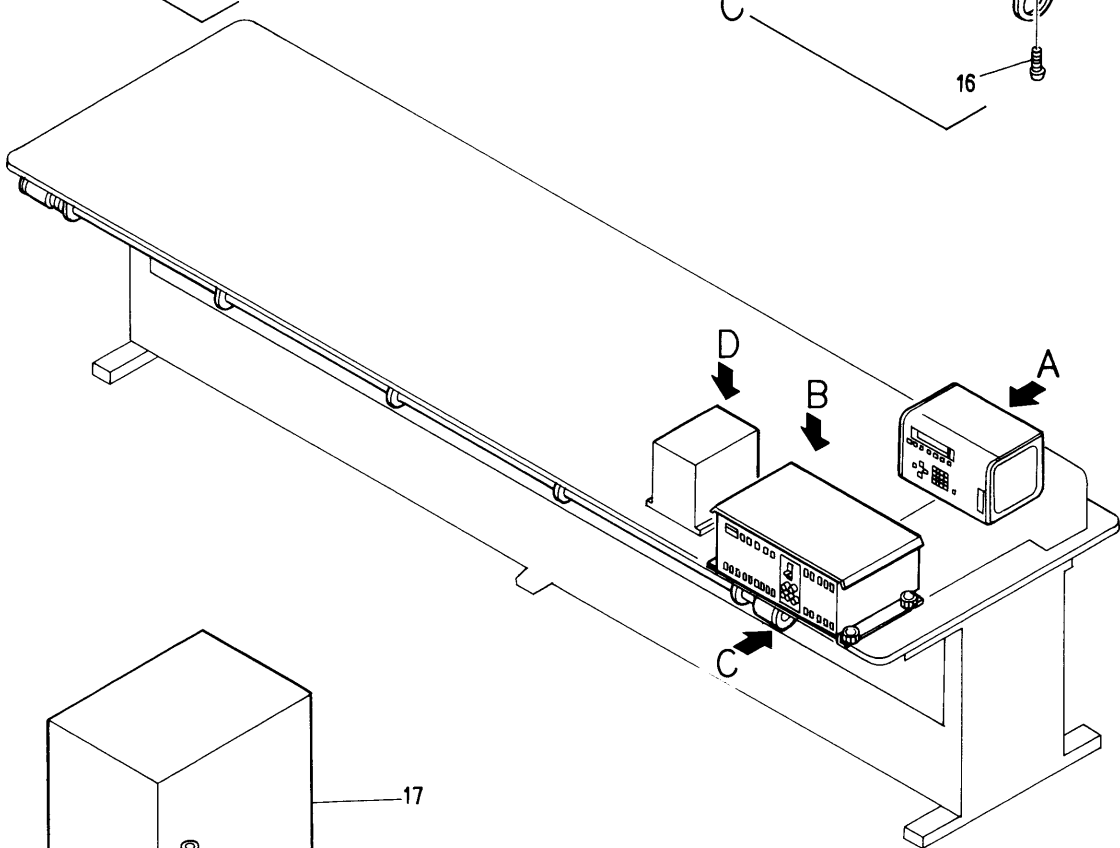
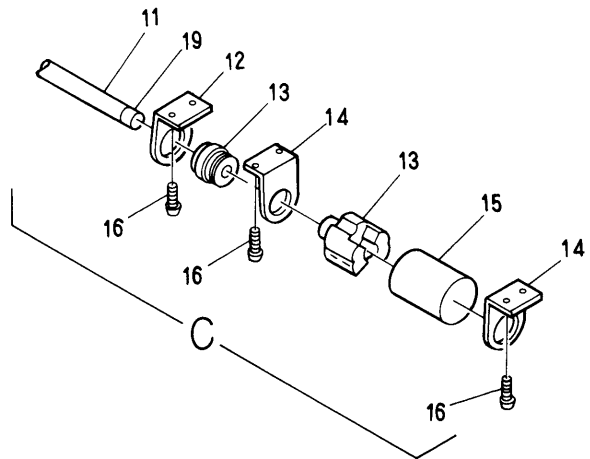
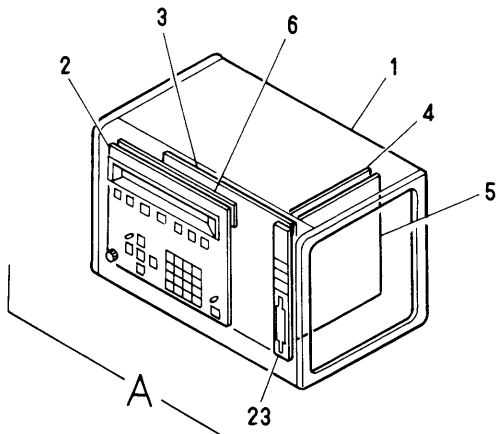






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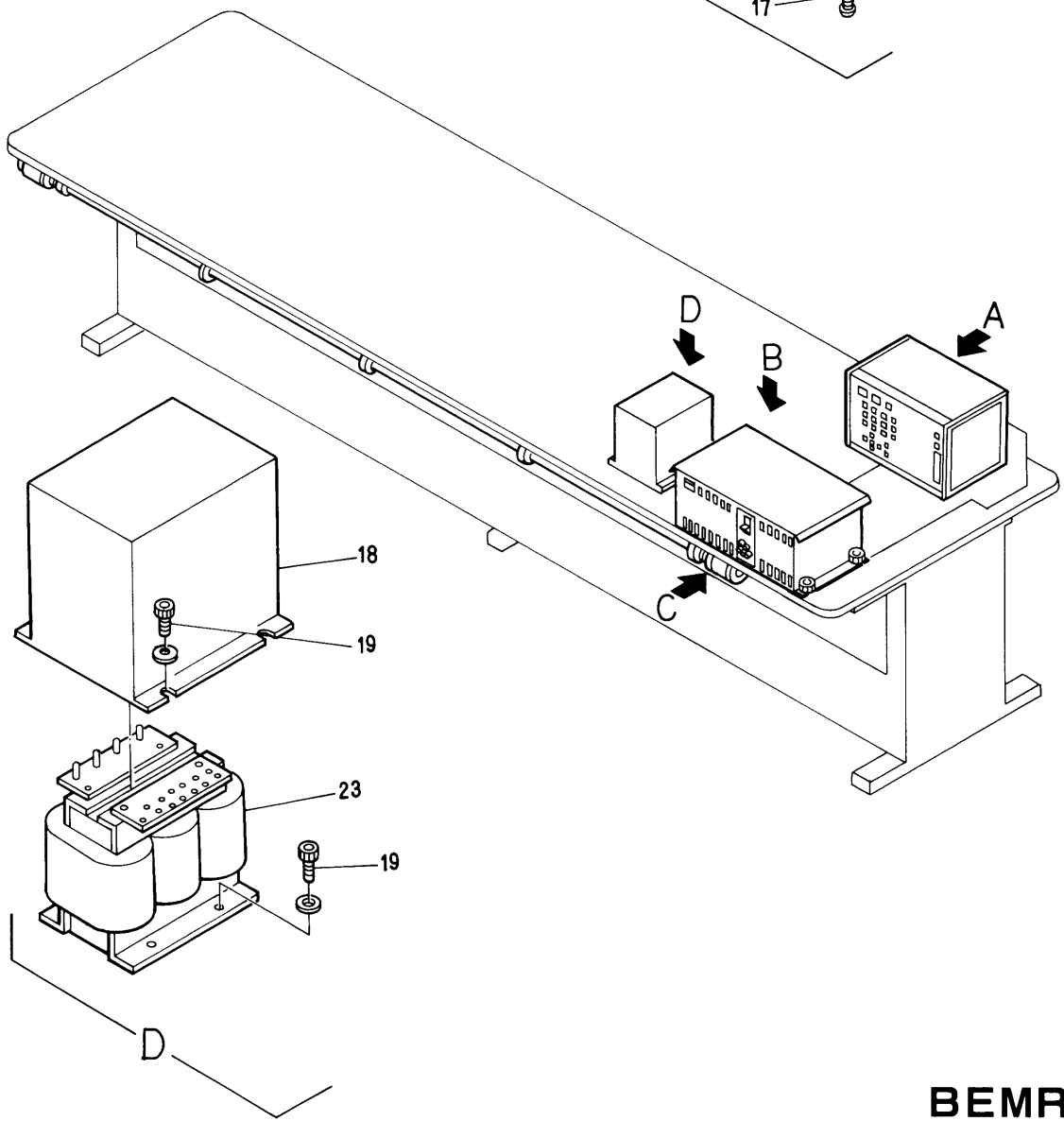
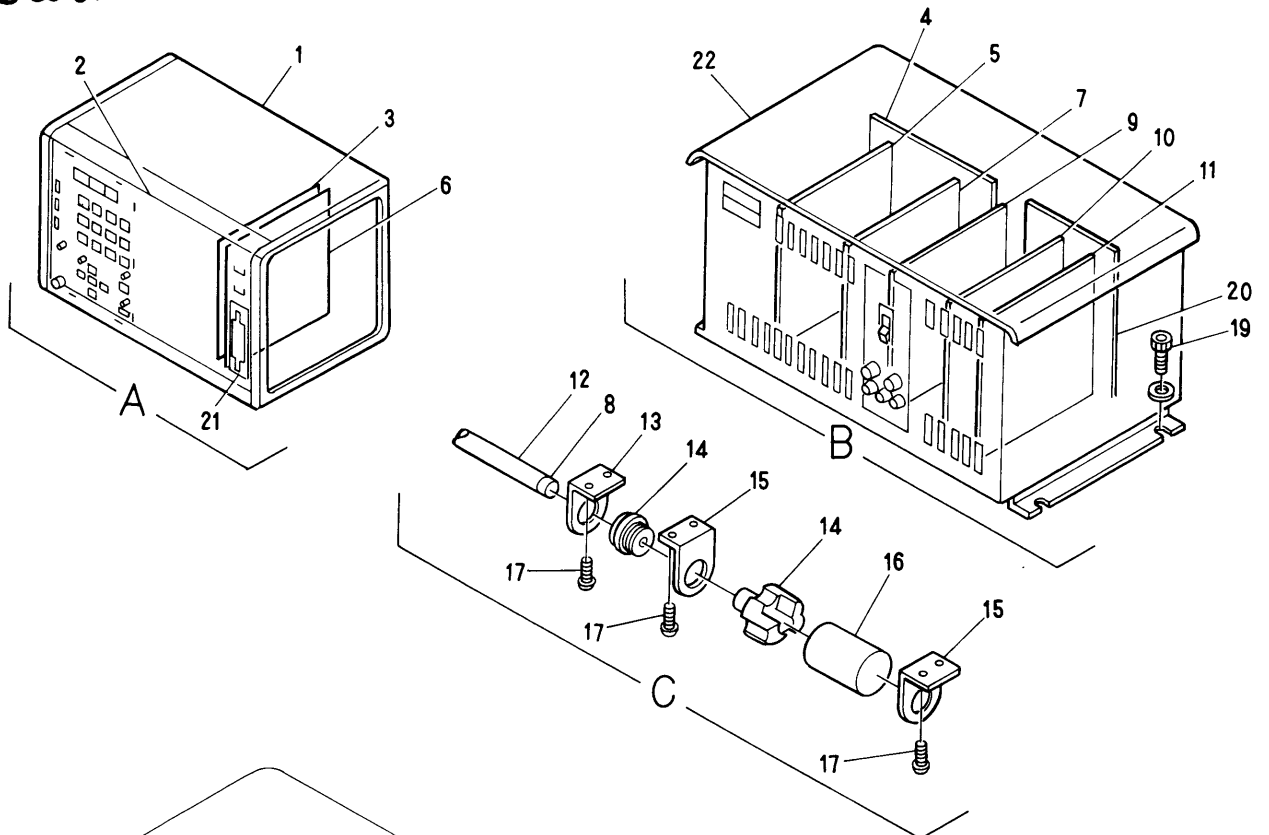


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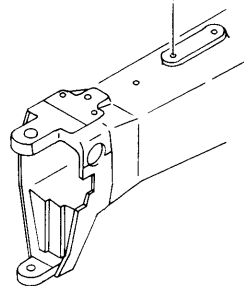
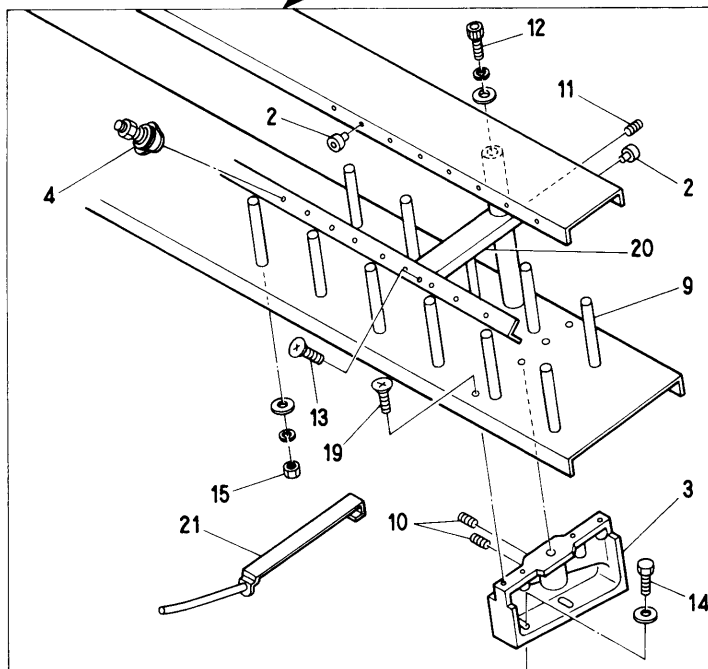
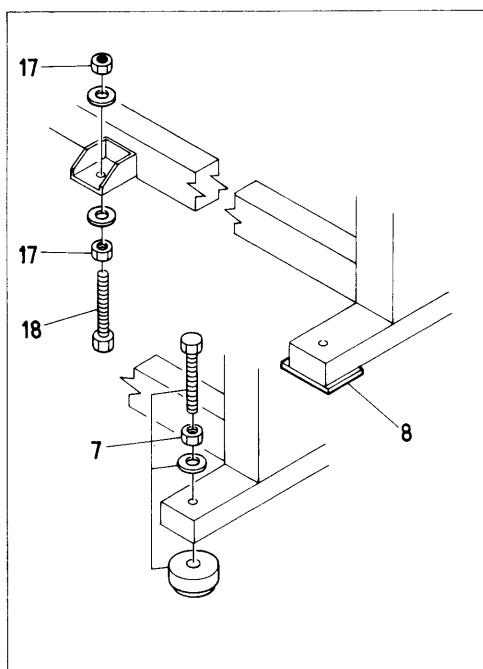
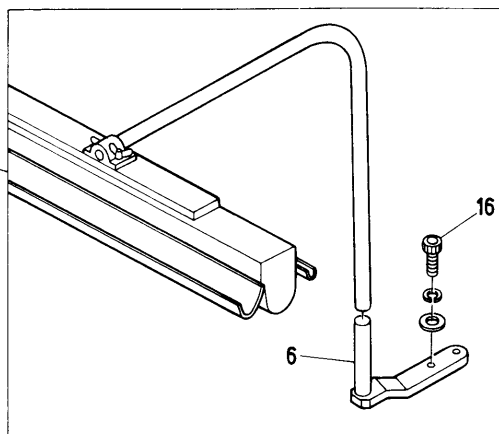
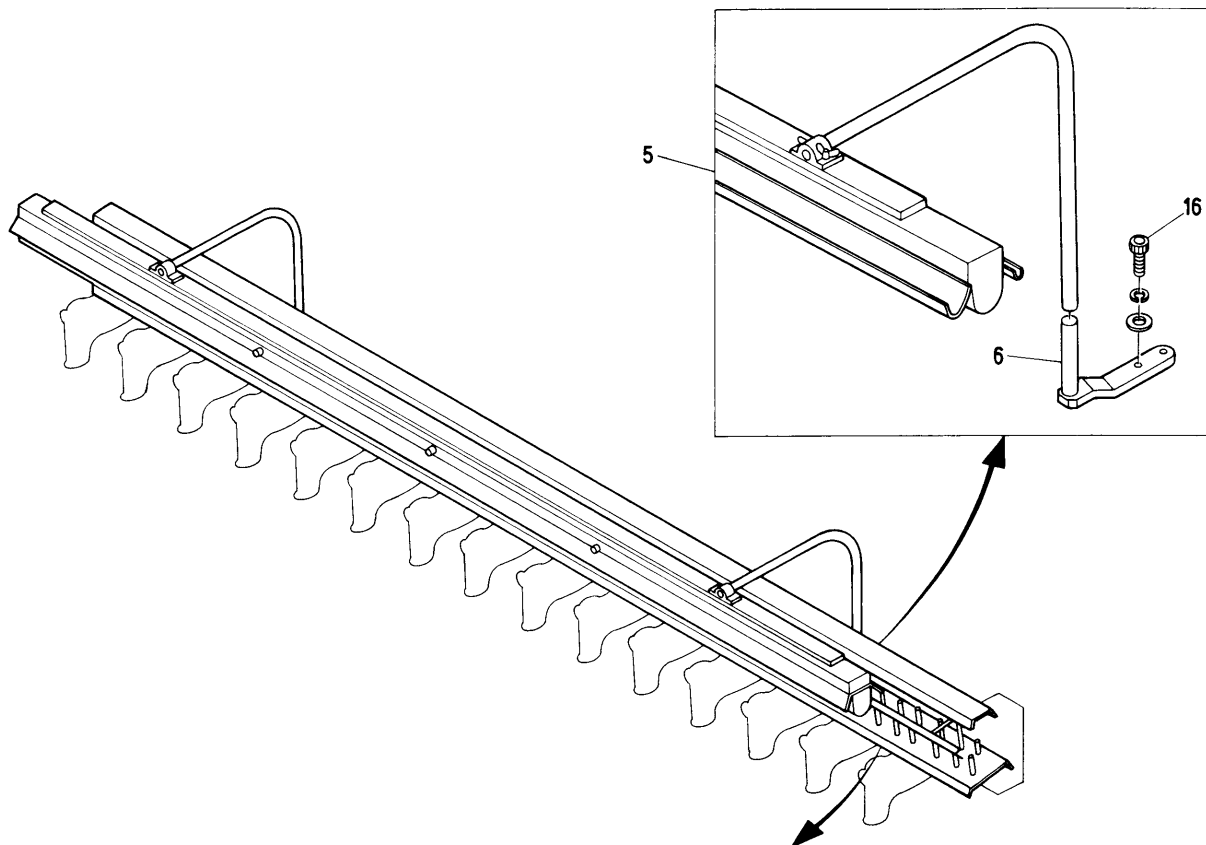
⑪ Control system <BEMX-YS>



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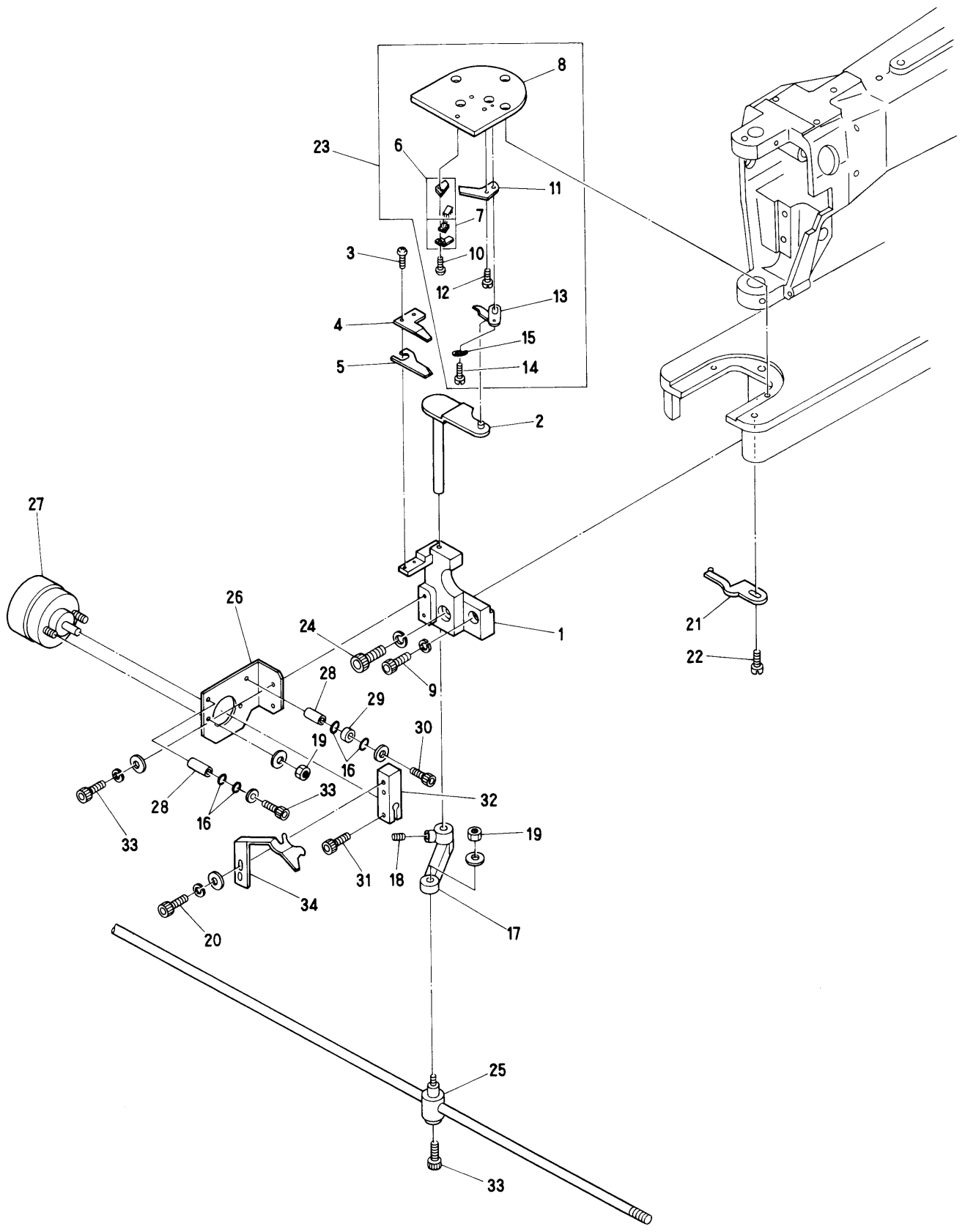






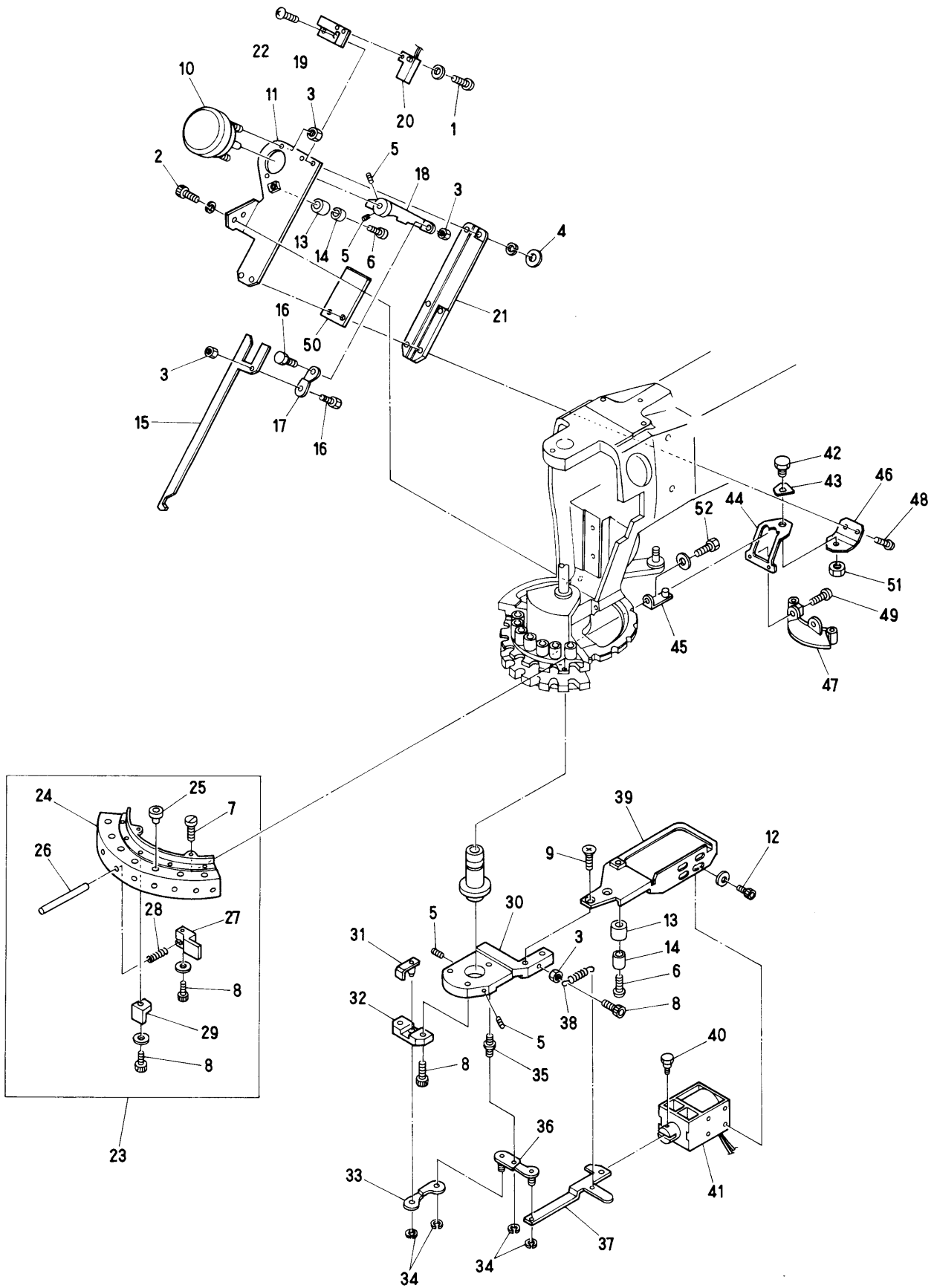
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**BEMR-YS**  
**BEMS-YS**  
**BEMX-YS**





MODEL  
**BEMR-YS**  
**BEMS-YS**  
**BEMX-YS**

⑭ Thread cutting mechanism II

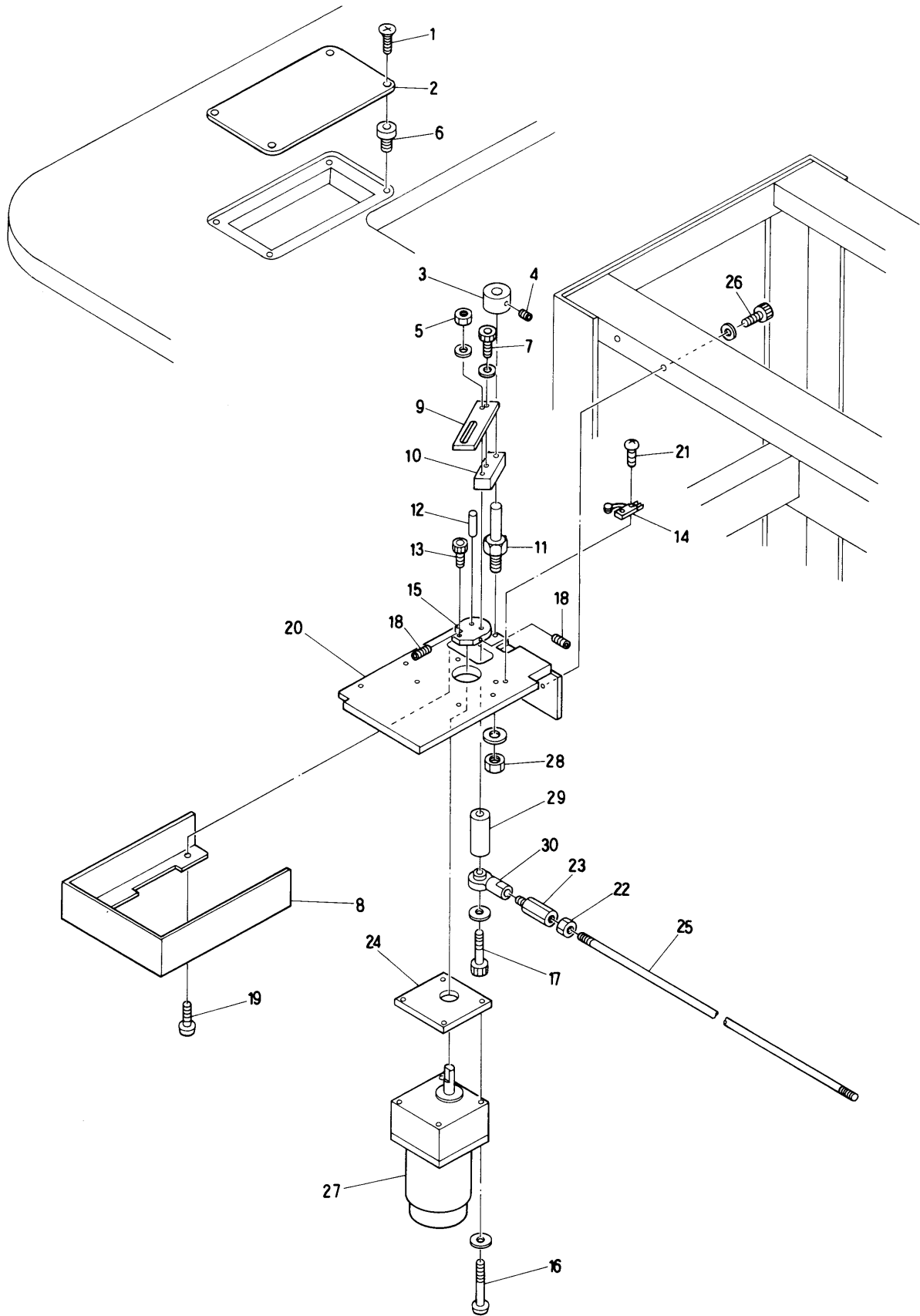
(N=Needle Q'ty)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1		Truss screw M3×6		
2		Hex.socket bolt M4×12		
3		Hex.nut M4		
4		Hex.nut M3		
5		Hex.socket set screw M4×8		
6		Truss screw M4×16		
7		Set screw (SM9/64 40)		
8		Hex.socket bolt M4×10		
9		Pan screw M4×8		
10	A 9 0 5 6 0 1 8	Rotary solenoid (4RE67.5-34×8×9)	1	
11	KL 2 7 0 0 8 1	Thread away base	1	
12		Hex.socket bolt M3×6		
13	KL 2 7 0 1 5 0	Eccentric cover	2	
14	KL 2 7 0 1 4 0	Stopper eccentric	2	
15	KL 2 7 0 1 0 1	Thread away hook	1	
16	KL 2 7 0 1 3 0	Lever connecting pin	2	
17	KL 2 7 0 1 2 0	Connecting plate	1	
18	KL 2 7 0 1 1 0	Thread away solenoid lever	1	
19	KL 2 7 0 2 6 0	Switch stay	1	
20	A 9 0 5 2 0 2 8	Limit switch (RS-603)	1	
21	KL 2 7 0 0 9 1	Thread away hook guide	1	
22		Truss screw M3×10		
23	KC 2 7 0 7 6 1	Thread support apron UF a'ssy(5)	1	
	KG 2 7 0 7 6 0	Thread support apron US a'ssy(7)	1	
24	KC 2 7 0 2 8 3	Thread support apron (5)	1	
	KG 2 7 0 2 8 2	Thread support apron (7)	1	
25	KF 2 3 0 5 8 0	Take up lever ceramic	N×1	
26	KG 2 7 0 3 1 0	Thread support pin (7)	N×1	
27	KC 2 7 0 3 0 1	Thread support clamp	N×1	
28	KC 2 7 0 2 7 1	Support spring	N×1	
29	KC 2 7 0 2 9 2	Thread support block	N×1	
30	KL 2 7 0 0 0 0	Fixing base	1	
31	KL 2 7 0 0 2 0	Thread support slider	1	
32	KL 2 7 0 0 1 0	Slide base	1	
33	KL 2 7 0 0 3 0	Driving plate	1	
34	A 9 0 1 2 0 5 6	E-ring φ3	4	
35	KL 2 7 0 0 4 0	Lever turret pin	1	
36	KL 2 7 0 0 5 0	Solenoid lever	1	
37	KL 2 7 0 0 6 0	Lever connecting plate	1	
38	KC 2 7 0 4 0 0	Thread support lever spring	1	
39	KL 2 7 0 0 7 0	Solenoid stay	1	
40	KC 2 7 0 1 0 1	Solenoid pin	1	
41	A 9 0 5 6 0 1 3	Keep solenoid (TDS-K10SL)	1	
42	KL 2 7 0 4 1 0	Thread hanger plate rotary shaft	1	
43	A 9 0 1 3 0 4 5	Wave washer (WW-5)	1	







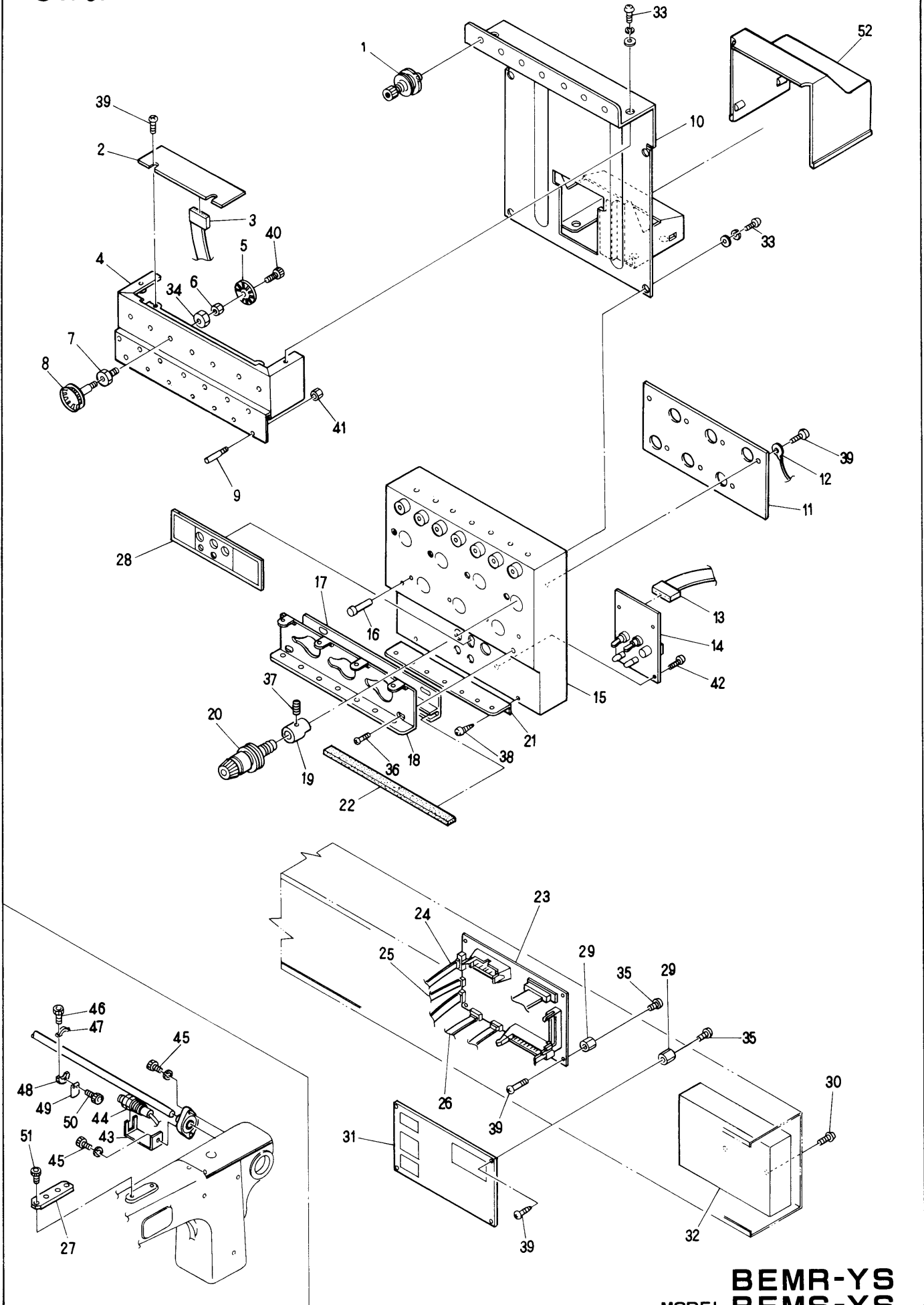


MODEL BEMR-YS  
BEMS-YS  
BEMX-YS



Бардан

⑬ Under thread cut sensorium mechanism (7·5)

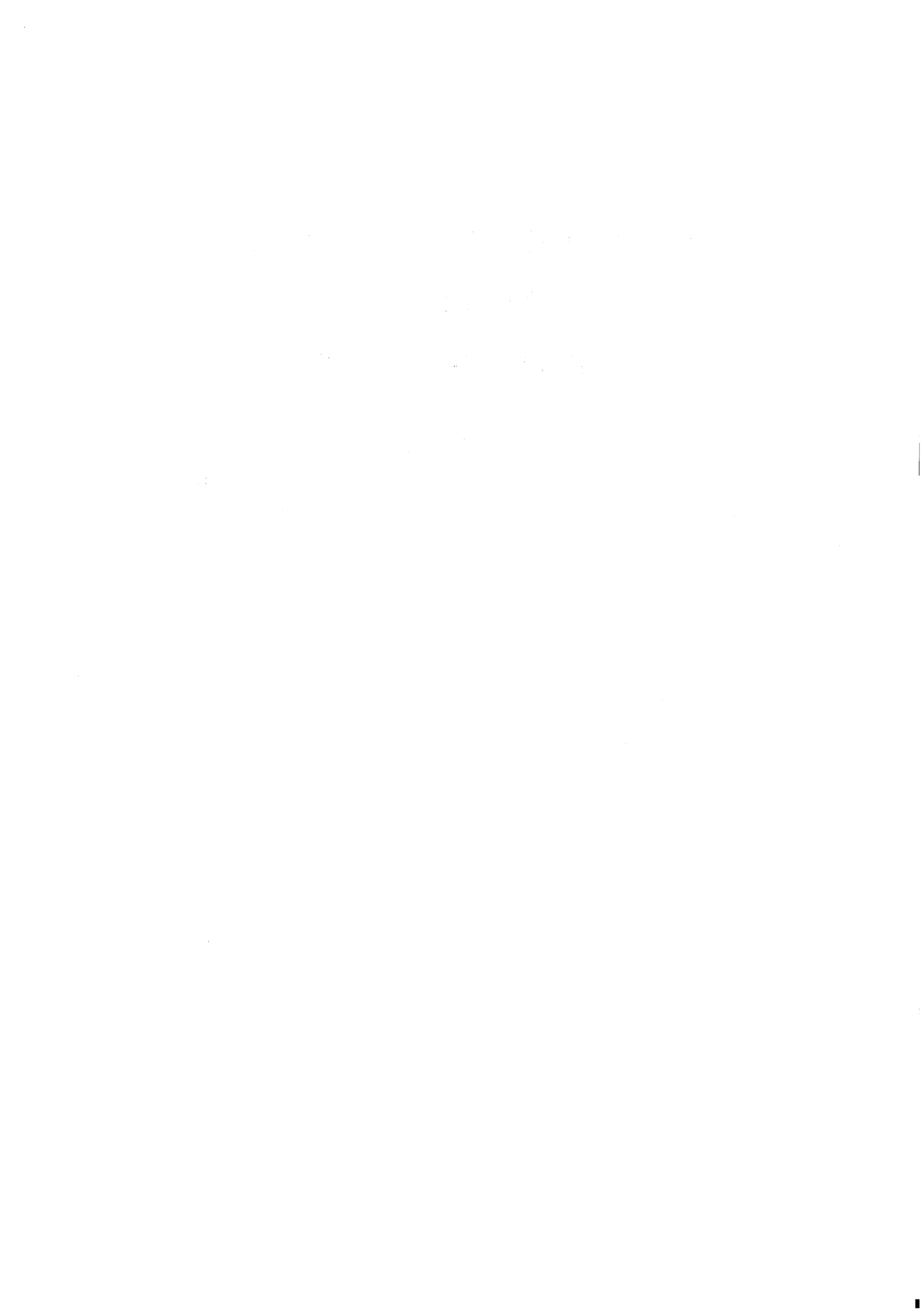


MODEL  
**BEMR-YS**  
**BEMS-YS**  
**BEMX-YS**

## ⑩ Under thread cut sensorium mechanism (7-5)

(N=Needle)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KG 2 4 1 0 3 1	Upper tension unit complete	N×1	
2	KN 5 4 0 6 4 0	P.C board BAP-302-7 (7)	1	
	KN 5 4 0 6 3 0	P.C board BAP-302-5 (5)	1	
3	KN 5 4 0 7 1 1	Sensor cable 2	1	
4	KN 5 4 0 5 4 0	Lower thread sensorium box (7)	1	
	KN 5 4 0 5 3 0	Lower thread sensorium box (5)	1	
5	KN 5 4 0 5 2 0	Lower thread sensorium sensor disk	N×1	
6	KN 5 4 0 5 1 0	Tension wheel nut M2	N×1	
7	KN 5 4 0 6 1 0	Wheel shaft metal	N×1	
8	KN 5 4 0 5 0 0	Tension wheel shaft a'ssy	N×1	
9	KN 5 4 0 5 9 0	Thread guide pin	N×2	
10	KB 2 4 0 0 8 1	Tension base (7)	1	
	KB 2 4 0 0 9 1	Tension base (5)	1	
11	HP 2 4 1 3 8 1	Tension earth plate (7)	1	
	HP 2 4 1 3 7 1	Tension earth plate (5)	1	
12	HP 2 4 1 3 9 0	Tension earth cable	1	
13	KN 5 4 0 7 2 1	Switch cable 3	1	
14	KN 5 4 0 6 5 0	P.C board BAP-303	1	
15	KN 5 4 0 5 8 1	Tension base (7)	1	
	KN 5 4 0 5 7 1	Tension base (5)	1	
16	HP 2 4 1 1 6 0	Upper thread sensorium pin	N×1	
17	HP 2 4 1 4 6 0	Thread guide felt fixing plate (7)	1	
	HP 2 4 1 4 5 0	Thread guide felt fixing plate (5)	1	
18	HP 2 4 1 1 8 0	First thread guide (7)	1	
	HP 2 4 1 1 7 0	First thread guide (5)	1	
19	HP 2 4 1 1 5 0	Base (with screw)	N×1	
20	KN 5 4 0 7 6 0	Dial type tension unit complete	N×1	
21	HP 2 4 1 2 0 0	Second thread guide plate (7)	1	
	HP 2 4 1 1 9 0	Second thread guide plate (5)	1	
22	HP 2 4 1 4 8 0	Thread guide felt (7)	1	
	HP 2 4 1 4 7 0	Thread guide felt (5)	1	
23	KN 5 4 0 6 2 0	P.C board BAP-301	1	
24	KN 5 4 0 7 5 0	Thread cut cable (5)	1	
25	KN 5 4 0 7 3 0	Jamp cable 4	2	
26	KN 5 4 0 7 0 1	Cable 1	2	
27	KN 5 4 1 0 8 0	Spool stand setting specer	1	
28	KN 5 4 0 7 8 0	Tension base label	1	
29	KN 5 4 0 6 0 0	Board fixing nut	8	
30		Truss screw M3×14		
31	KN 5 4 0 8 1 0	P.C board BAP-304	1	
32	KN 5 4 0 8 2 0	Power box K50-12	1	
33		Pan screw M4×8		
34		Hex. nut M8		
35		Truss screw M3×5		
36		Truss screw M4×6		









# I N D E X

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K C 7 1 0 4 1 0	2 9	2 1	K F 5 3 0 1 5 0	2 7	1 6
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# I N D E X

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K G 2 4 1 0 3 1	2 9	4	K L 2 7 0 4 0 0	3 3	4 7
K G 2 4 1 0 3 1	3 7	1	K L 2 7 0 4 1 0	3 3	4 2
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# I N D E X

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