

# Barudan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

MODEL

**BENRME-YN/YS**  
**BENSME-YN/YS**

## PARTS LIST

From the library of: Diamond Needle Corp

**BARUDAN CO., LTD.**

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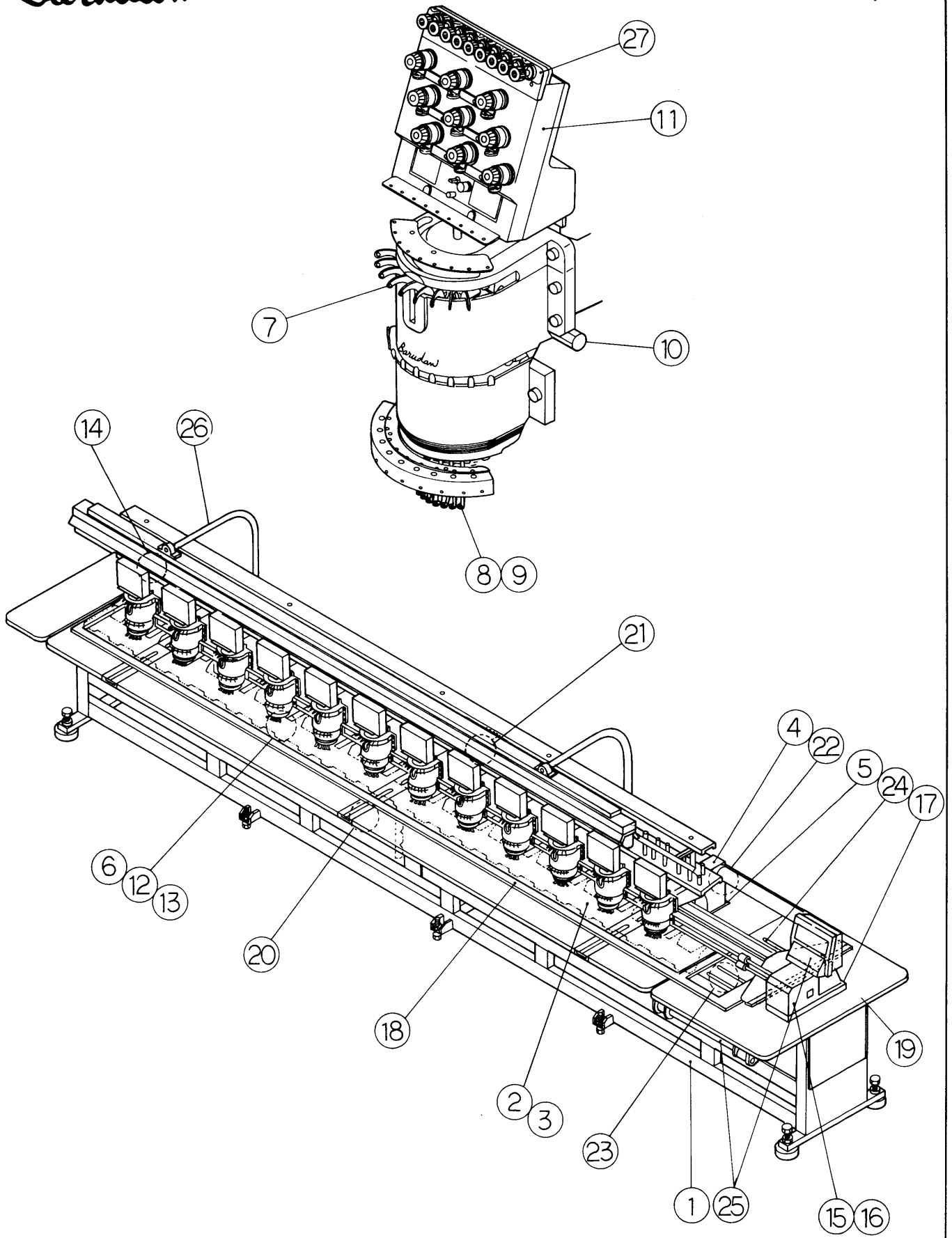


HIGH SPEED AUTOMATIC EMBROIDERY  
 MACHINE PARTS LIST

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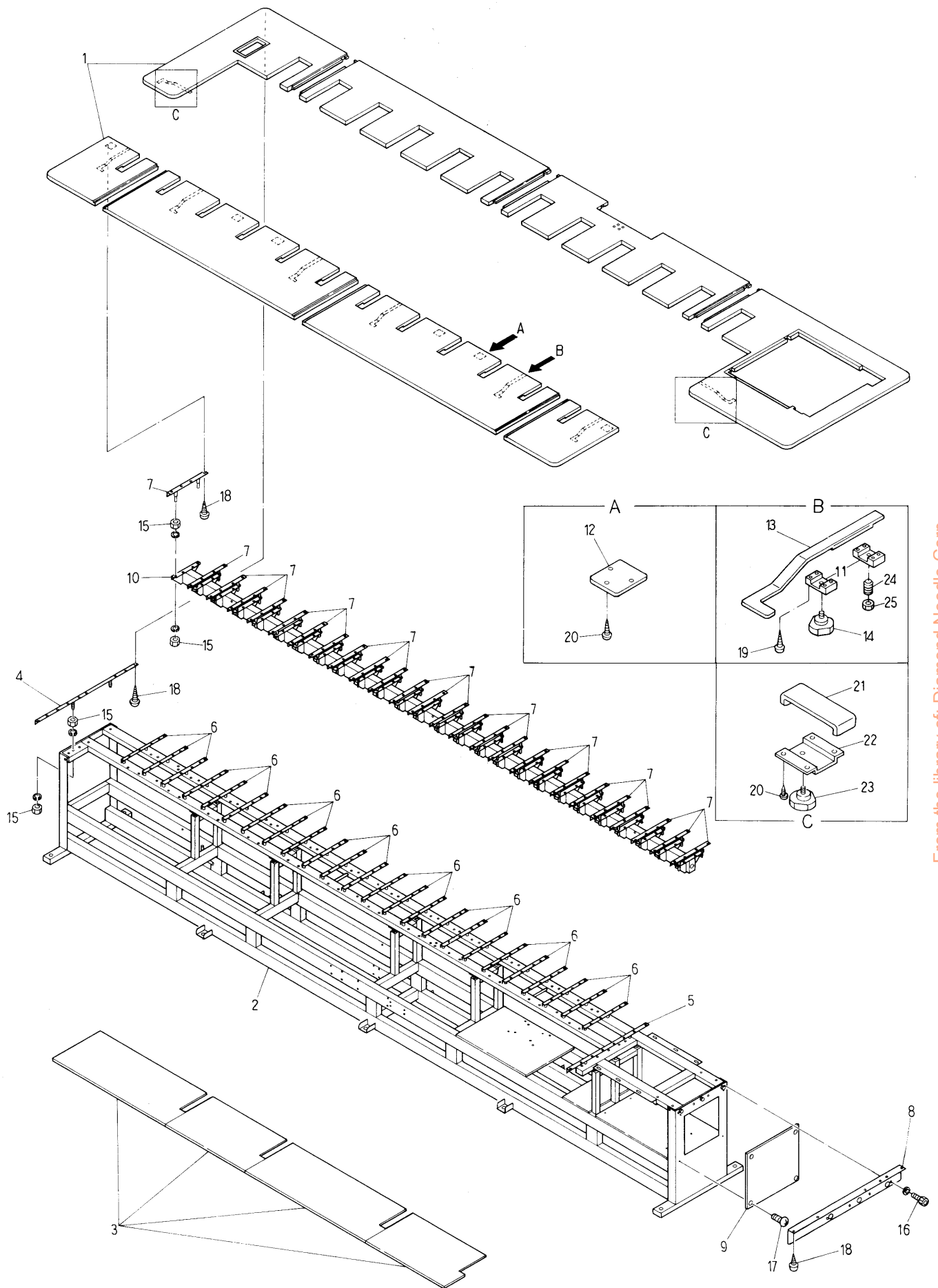
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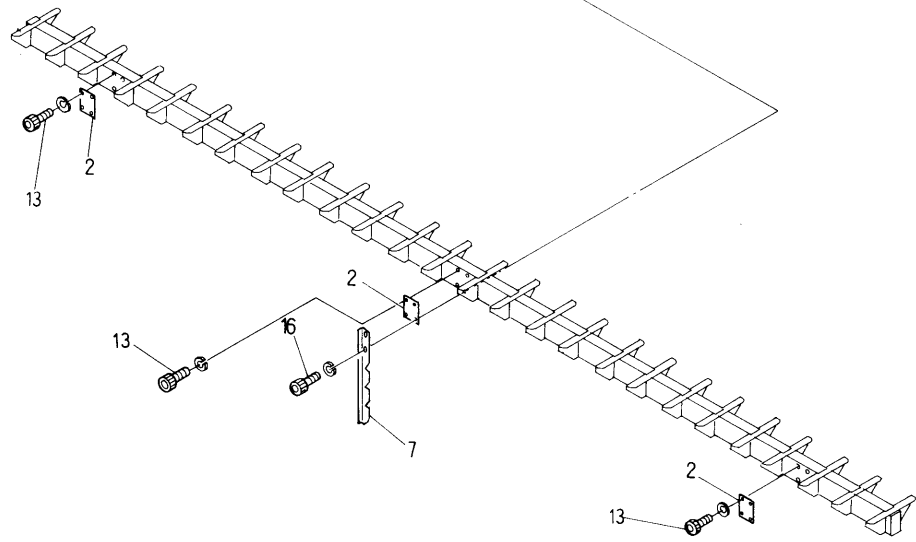
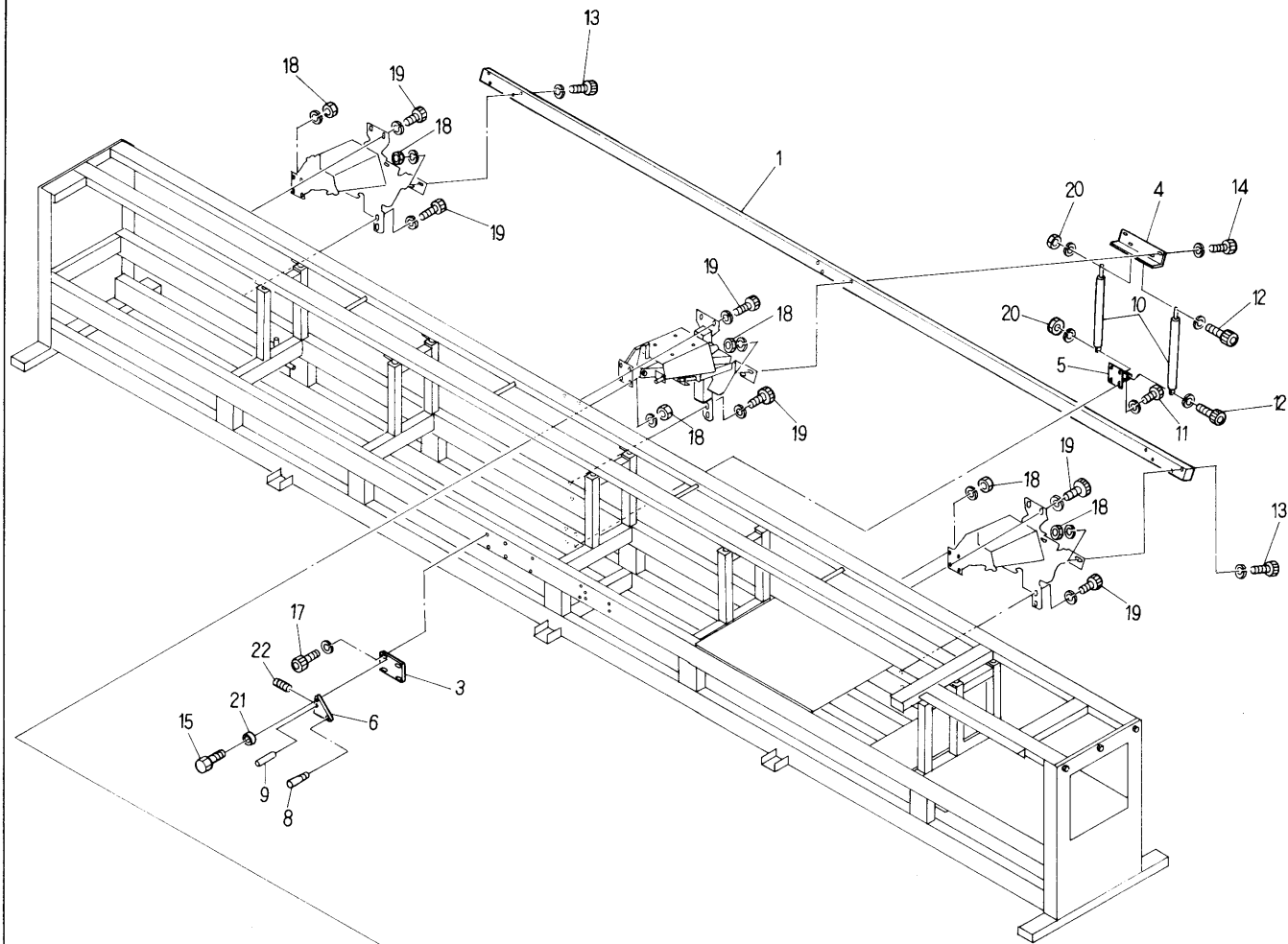
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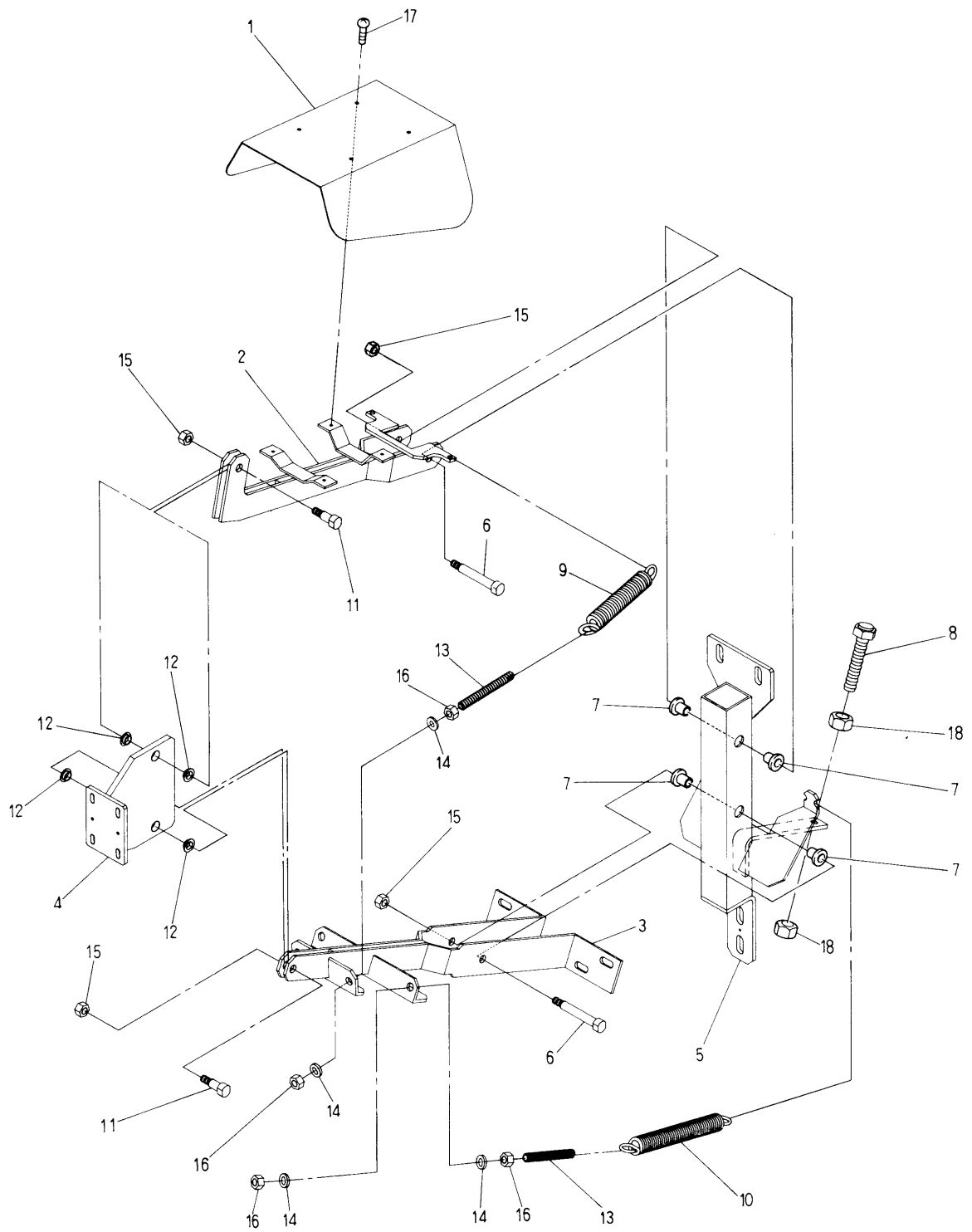


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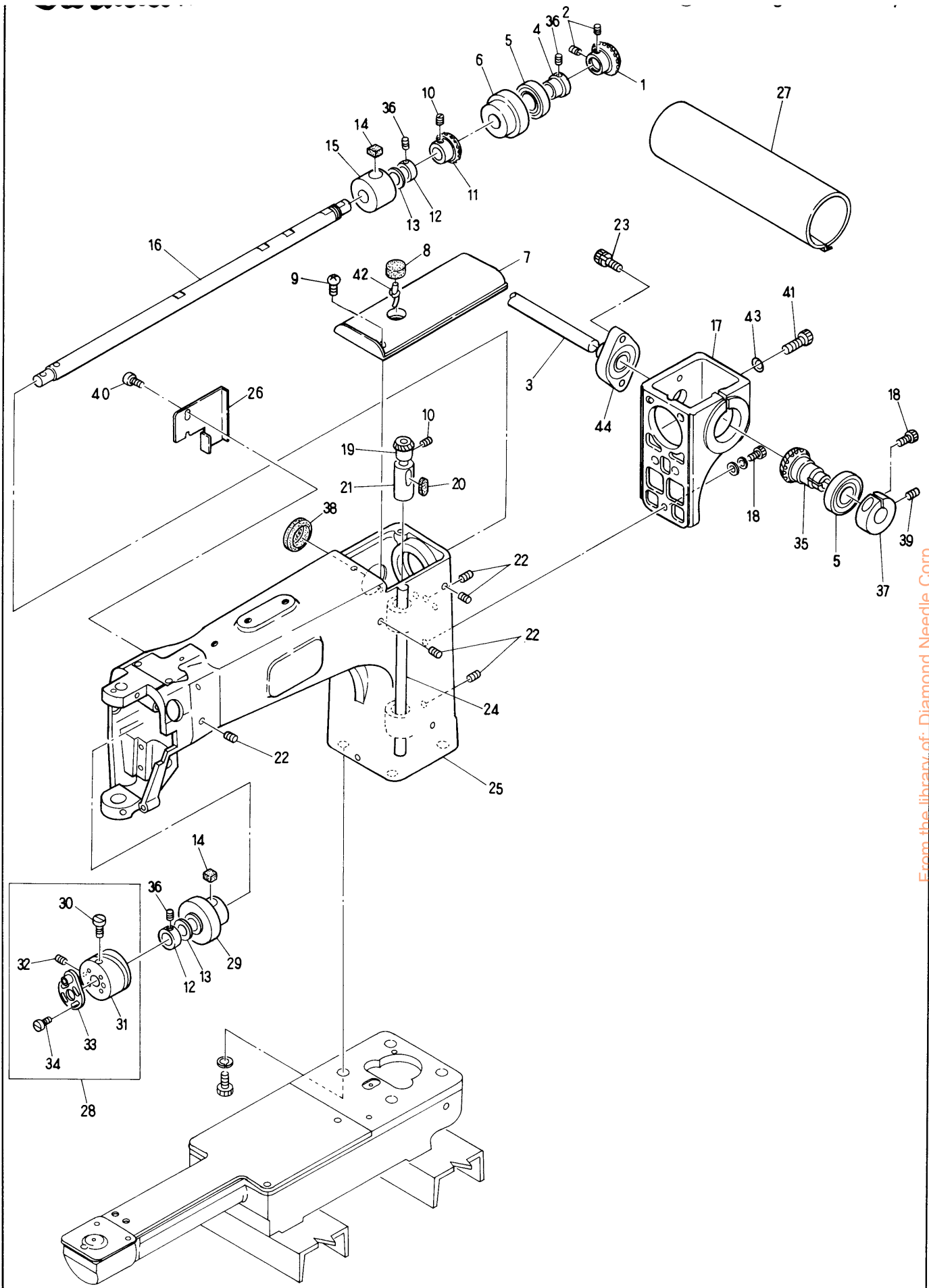




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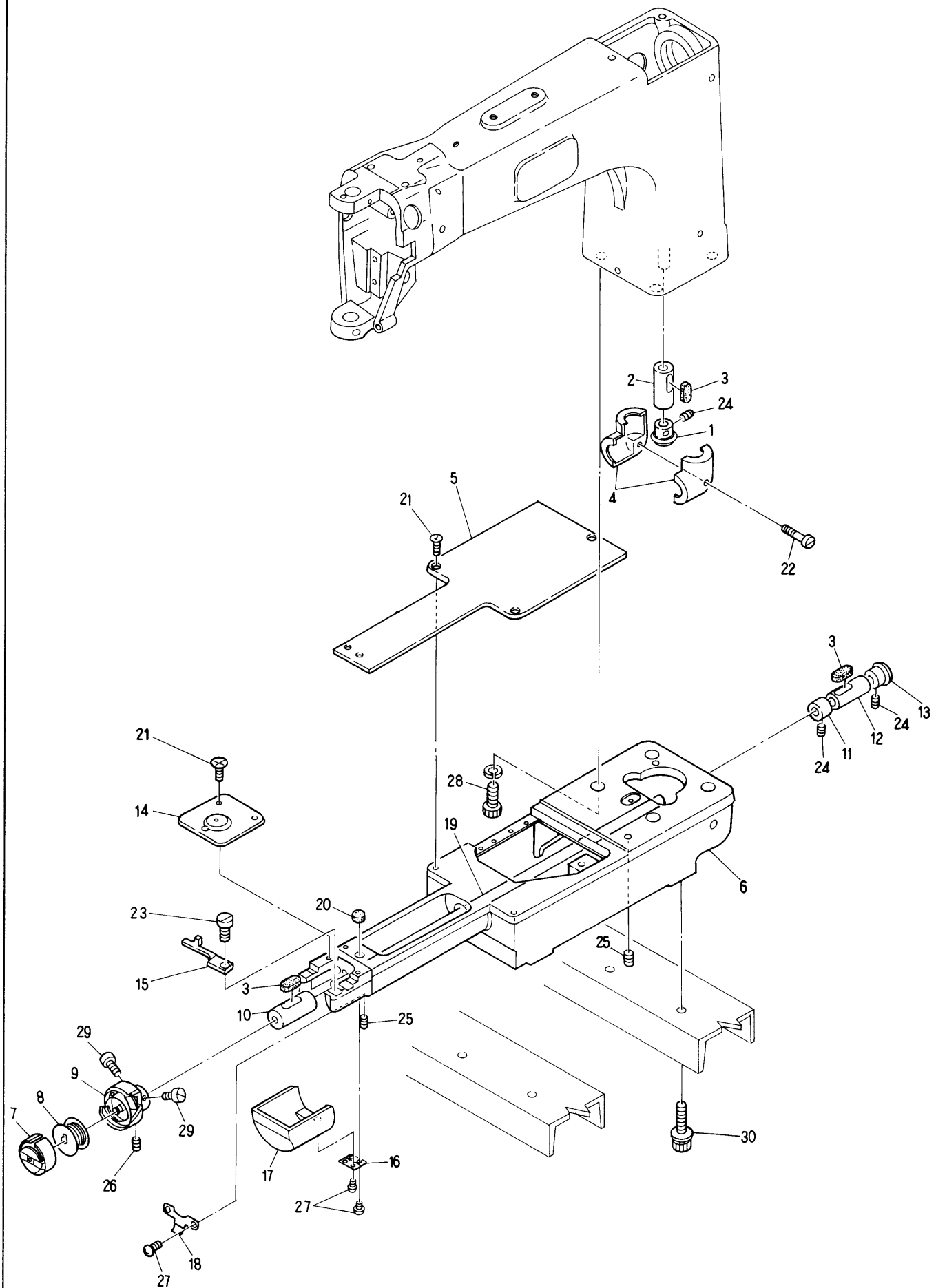




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ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	KL220100	Upper gear (M1.5-25R)	H×1	
2		Hex. socket set screw M6×6 (With adhesion)	H×2	
3		Upper connecting shaft $\phi$ 15		
4	KL220090	Upper gear rear bearing callor	H×1	
5	A9010017	Bearing (6004ZZ)	H×2	
6	KL220040	Upper gear rear bearing case	H×1	
7	KL250040	Arm top cover	H×1	
8	KL220150	Oil felt D	H×1	
9		Truss screw M4×10		
10		Screw (SM1/4 40×4)		
11	KF220130	Bevel gear (Upper)	H×1	
12	KL220080	Upper shaft callor	H×2	
13	HP231390	Thrust washer (Upper gear)	H×2	
14	KL220130	Oil felt B	H×2	
15	KL220030	Upper shaft middle metal	H×1	
16	KL220000	Upper shaft	H×1	
17	KL210140	Arm gear case	H×1	
18		Hex. socket bolt M6×25		
19	KF220460	Bevel gear (Vertical shaft upper)	H×1	
20	KL220140	Oil felt C	H×1	
21	KL220050	Vertical metal (Upper)	H×1	
22		Hex. socket set screw M6×8		
23		Hex. socket screw M6×8 (With spring washer)		
24	KL220010	Vertical shaft	H×1	
25	KB210160	Arm	H×1	
26	KL250051	Arm side cable cover	H×1	
27	1PKV12380	Shaft cover set (NSME-12)	1 Set	Choice and use
	1PKV15380	Shaft cover set (NSME-15)	1 Set	Choice and use
28	KB230010	Take up levercam K6 90° With crank	H×1	
29	KL220020	Upper shaft front metal	H×1	
30	KF230420	Take up lever cam set screw	H×1	
31	KB230030	Take up lever cam K6	H×1	
32		Screw (SM15/64 28×10)(With adhesion)	H×1	
33	KB230050	90° Crank	H×1	
34	A9012007	Screw (SM11/64 40×10) For bobbin	H×1	
35	KL320000	Connecting gear (Spiral bevel M1.5-25L)	H×1	
36		Hex. socket set screw M6×6		
37	KL320020	Connecting gear clamp $\phi$ 19	H×1	
38	A9014063	Grommet C-30-SG-36A	H×1	
39		Hex. socket set screw M6×10		
40		Truss screw M4×8		
41		Hex. socket bolt M6×60		
42	KC251330	Oil core L=75	H×1	
43		Flush spring M6		
44	HP321140	Top connecting shaft bearing unit	H×1	

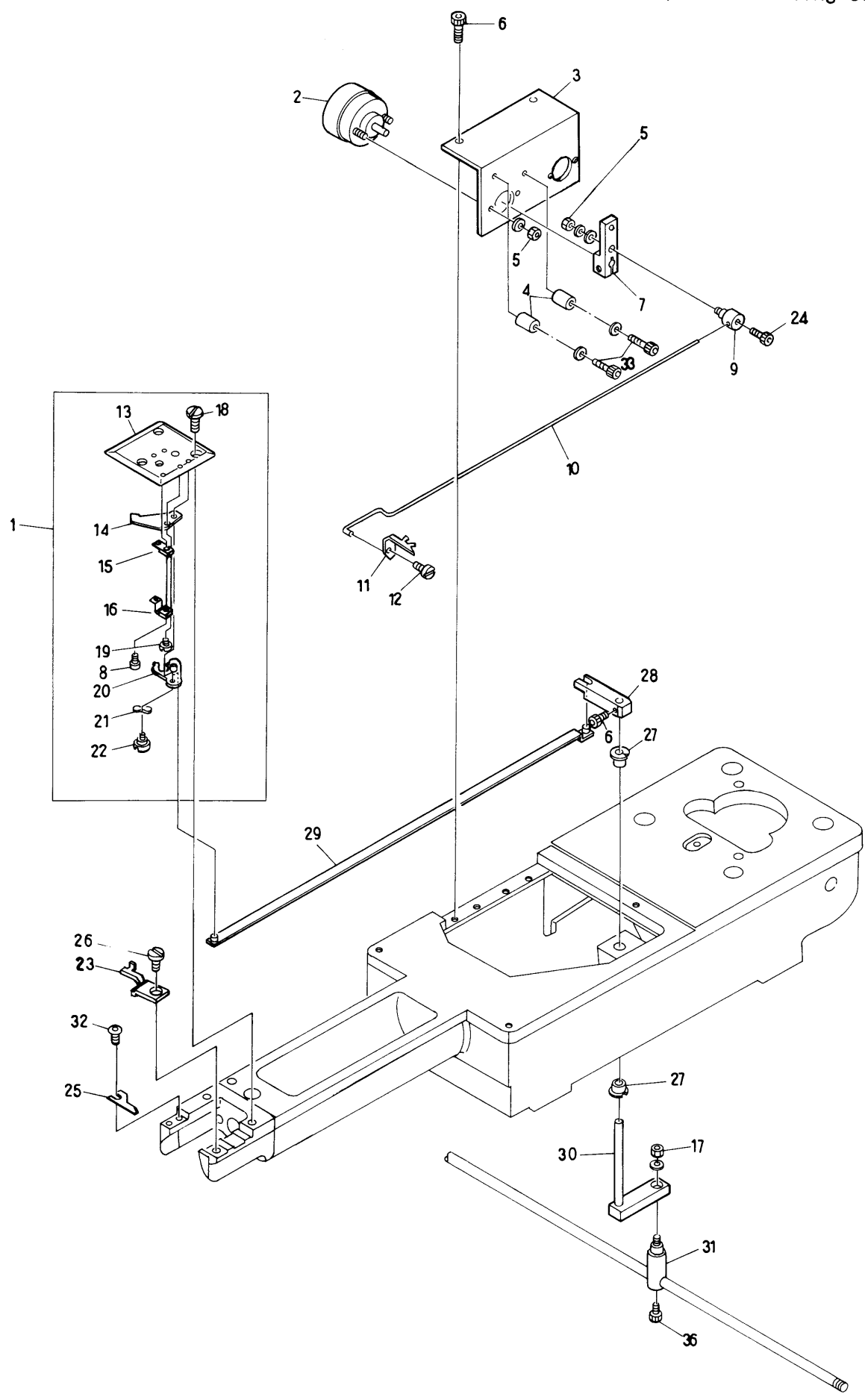


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⑥ AUTOMATIC thread cutting mechanism I  
 (Thread cutting section)



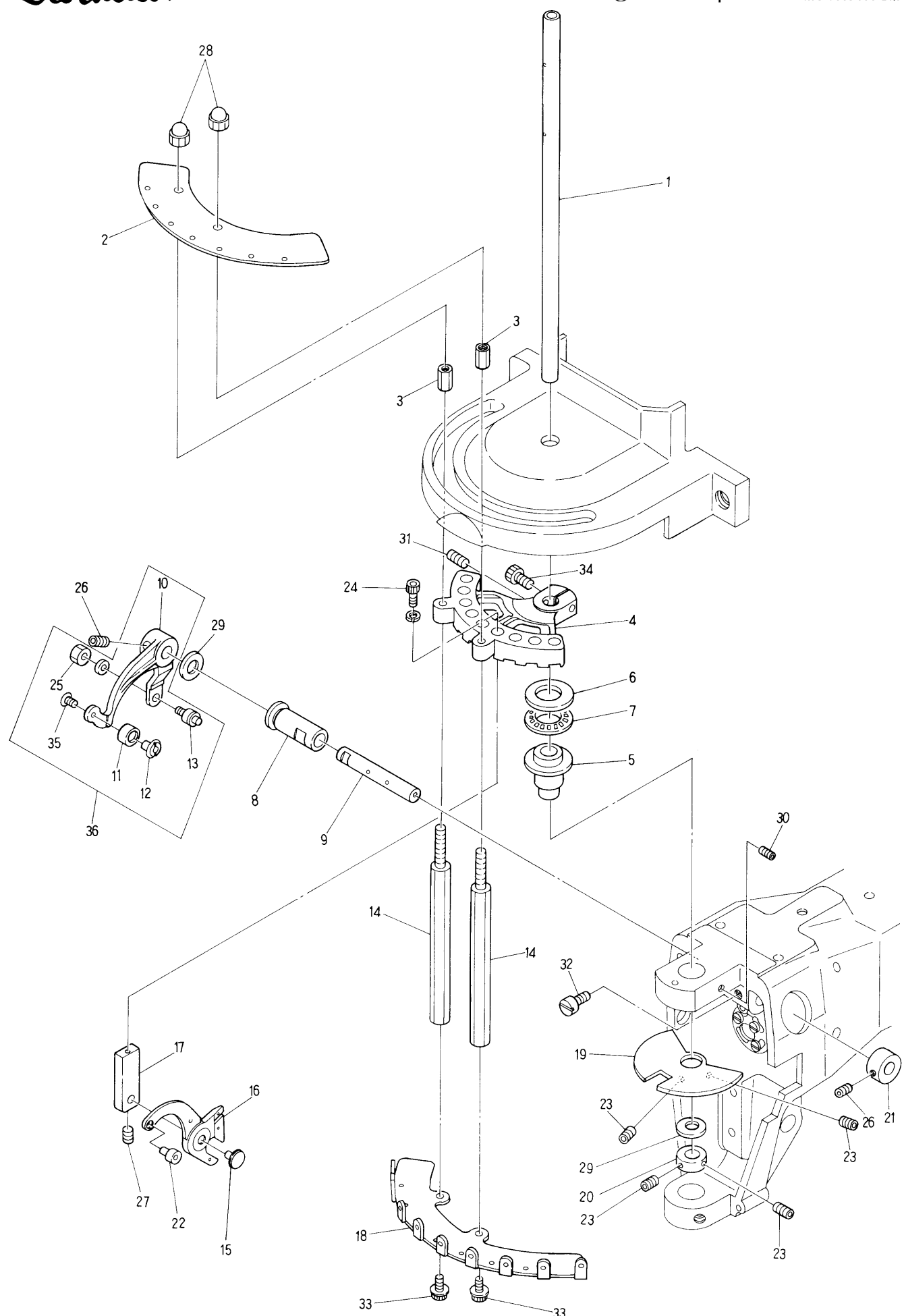
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**BENSME-YN/YS**



ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	KS 270010	Needle plate a'ssy (MK-5)	H×1	
2	A 9056008	Rotary solenoid (3ER25 33 ×3 ×8 ×9)	H×1	
3	KC 271960	Solenoid stay	H×1	
4	KN 272400	Stopper eccentric	H×2	
5		Hex. nut M3		
6		Hex. socket bolt M4×8		
7	KC 271940	Solenoid lever A	H×1	
8		Pan screw M3×3		
9	KC 271041	Connecting clamp	H×1	
10	KC 271031	Hook driving rod	H×1	
11	KC 271021	Hook	H×1	
12	KC 271001	Needle knife turret shaft	H×1	
13	KL 270380	Needle plate	H×1	
14	KN 270960	Fixing knife	H×1	
15	HT 270160	Lower thread support stay (Upper) CMP	H×1	
16	HT 270180	Lower thread support stay (Lower) CMP	H×1	
17		Hex. nut M4		
18		Screw M3 ×3		
19	KC 270980	Fixed knife set screw	H×1	
20	KN 270952	Driving knife	H×1	
21	A 9013066	Wave washer (WW5) (SK)	H×1	
22	KC 270970	Lower thread knife turret shaft	H×1	
23	KC 220650	Rotating hook bobbin case holder position bracket	H×1	
24		Hex. socket bolt M3×5		
25	KB 270020	Upper thread knife	H×1	
26	A 9012007	Screw (SM11/64 40×10)	H×1	
27	A 9012114	Bush with flange DU (MB0505-10FPU)	H×2	
28	KC 271120	Lower thread knife driving lever (Upper)	H×1	
29	KC 271070	Lower thread knife driving rod	H×1	
30	KC 271130	Lower thread knife driving lever (Lower)	H×1	
31	KF 230640	Lock connecting bar clamp	H×1	
32		Hex. socket button bolt M3×6		
33		Hex. socket bolt M4×18		

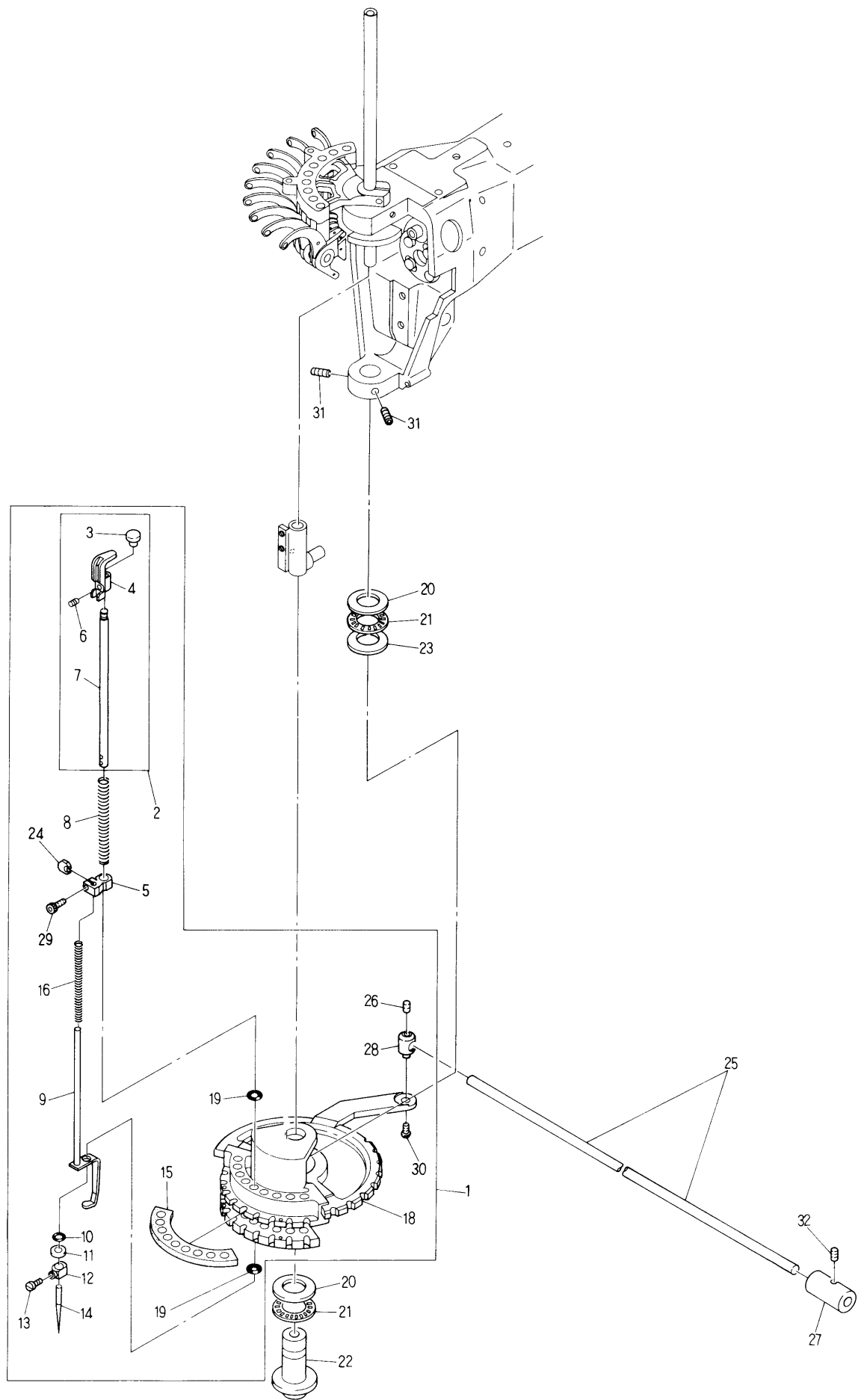
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ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KS230010	Driving shaft	H×1	
2	HT240000	Thread guide plate	H×1	
3	KB240021	Thread guide fixing collar	H×2	
4	<del>HT230020</del> HB230291	Take up lever fixing bracket	H×1	
5	KB230090	Driving shaft upper metal	H×1	
6	A9011152	Thrust needle bearing innerrig (WS1528)	H×1	
7	A9011021	Thrust bearing NTB-1528	H×1	
8	KB230100	Take up lever driving shaft metal	H×1	
9	KB230110	Take up lever driving shaft	H×1	
10	KT230031	Take up lever driving lever	H×1	
11	HT230090	Take up lever driving roller	H×1	
12	HT230100	Take up lever driving roller shaft	H×1	
13	KF230500	Take up lever roller a'ssy	H×1	
14	KB240010	Thread guide fixing rod	H×2	
15	HT230080	Take up lever shaft	H×9	
16	KT230040	Take up lever	H×9	
17	KT230010	Take up lever base	H×9	
18	HT240010	Thread hanger	H×1	
19	KT230000	Take up lever sttoker	H×1	
20	HB230160	Driving shaft set collar	H×1	
21	HB230270	Needle bar driving lever fixing pin set collar	H×1	
22	HB230750	Take up lever thread eyelet ceramic	H×9	
23		Hex. socket screw M4×4 (With adhesion)	H×2	
24		Hex. bolt M3×14		
25		Hex. nut SM7/32		
26		Hex. socket set screw M5×6 (With adhesion)	H×2	
27		Hex. socket set screw M3×4 (With adhesion)	H×9	
28		Cap nut M4		
29	A9012164	Thrust washer (R-TW0815)	H×2	
30		Hex. socket screw M6×6		
31		Hex. socket set screw M4×5		
32		Screw (SM11/64×11)		
33		Hex. socket bolt M4×6(With plain washer)		
34		Hex. socket bolt M4×15		
35	HB230650	Flush screw (With adhesion)	H×1	
36	KT230051	Take up lever drive lever a'ssy	H×1	

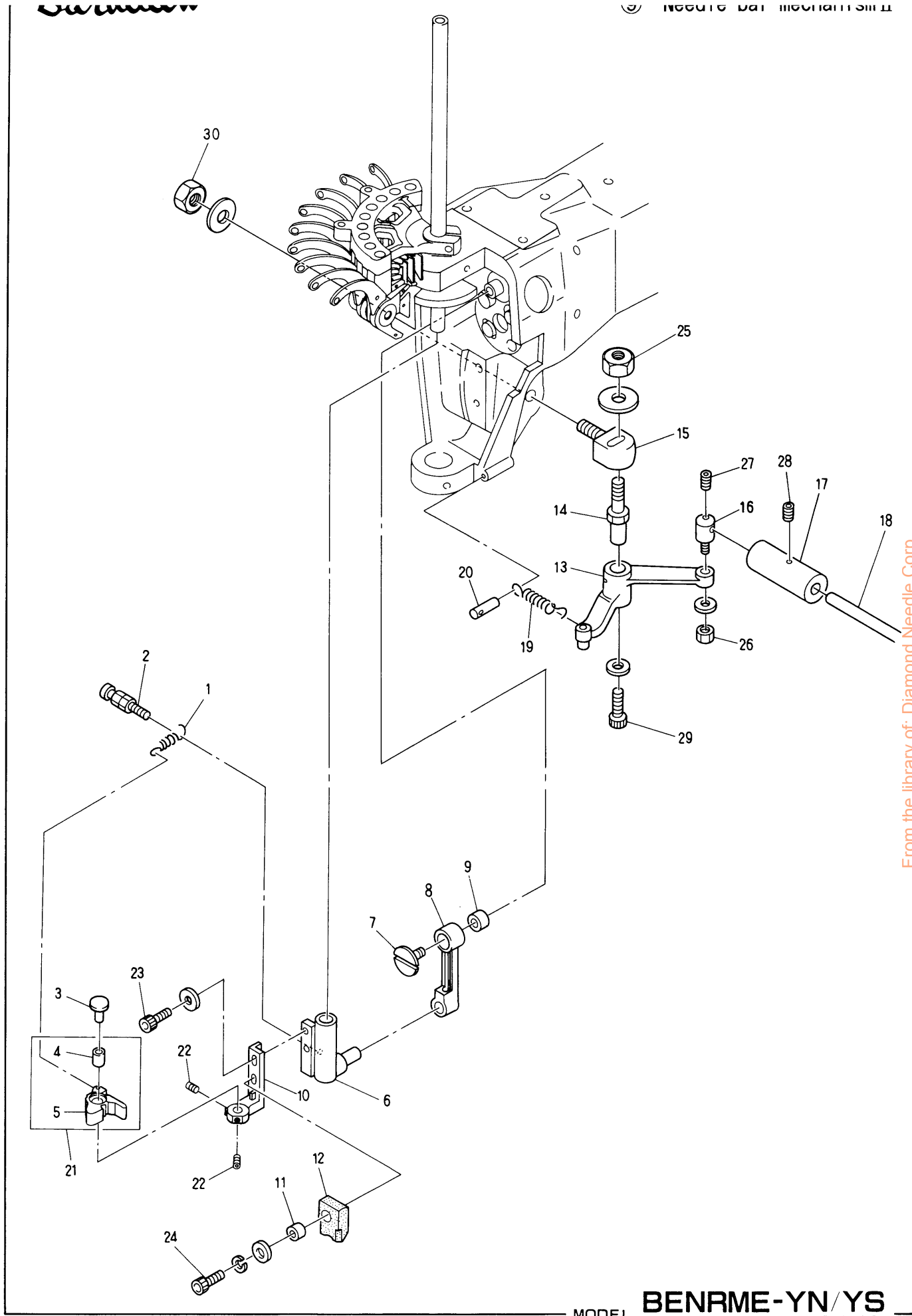
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ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	HT 2 3 0 8 0 0	Turret plate a'ssy	H×9	
2	HT 2 3 0 8 1 0	Needle bar a'ssy	H×9	
3	HT 2 3 0 1 3 0	Needle bar cap	H×9	
4	HT 2 3 0 1 5 1	Needle bar guide	H×9	
5	HT 2 3 0 0 5 1	Cloth winder stop latch set clamp	H×9	
6		Hex. socket set screw M4×4		
7	HT 2 3 0 0 4 1	Needle bar	H×9	
8	HT 2 3 0 2 5 1	Needle bar spring	H×9	
9	HT 2 3 0 1 4 2	Pressue foot	H×9	
1 0	KF 2 3 0 9 1 0	O-Ring (S)	H×9	
1 1	HT 2 3 0 1 2 0	Washer 2.4	H×9	
1 2	KF 2 3 0 6 7 0	Needle clamp	H×9	
1 3	KF 2 3 0 2 4 0	Needle clamp SCREW (SM9/64 40)	H×9	
1 4	KF 2 3 0 2 5 0	Needle (DBK5-11)	H×9	
1 5	HT 2 3 0 1 1 1	Turret plate felt	H×1	
1 6	HT 2 3 0 0 6 2	Needle bar spring (Lower)	H×9	
1 7		Hex. socket set screw M5×5		
1 8	HT 2 3 0 5 7 0	Turret plate	H×1	
1 9	A 9 0 1 4 0 5 5	O-Ring (IAS-7)	H×18	
2 0	A 9 0 1 1 0 2 3	Thrust bearing outer (GS1528)	H×2	
2 1	A 9 0 1 1 0 2 1	Thrust bearing (NTB-1528)	H×2	
2 2	HB 2 3 0 1 4 0	Driver shaft under metal	H×1	
2 3	A 9 0 1 1 0 2 2	Thrust washer	H×1	
2 4	HT 2 3 0 2 6 3	Washer for set clamp	H×9	
2 5	KC 3 3 0 4 1 0	Lock connecting rod (L=2000)	(4)	
2 6		Hex. socket set screw M4×4		
2 7	KF 3 3 0 3 8 1	Lock bar hand grip	(2)	
2 8	HT 2 3 0 1 8 0	Turret plate joint pin	H×1	
2 9		Hex. socket bolt M3×8		
3 0		Hex. socket button bolt M4×5		
3 1	A 9 0 1 2 0 5 3	Hex. socket set screw M6×0.75×8	H×2	

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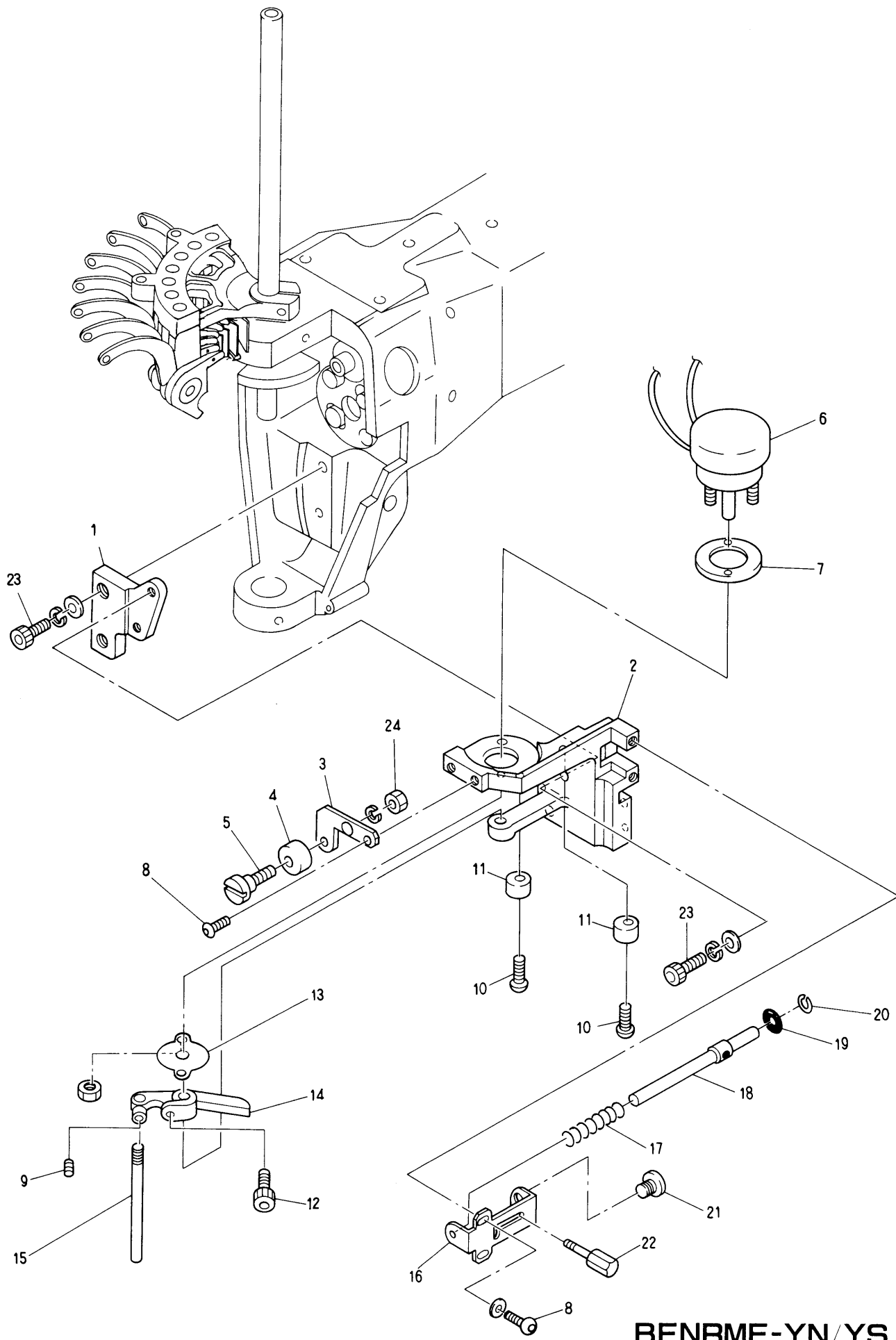


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ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1	HB 2 3 0 4 0 1	Needle bar driver return spring	H×1	
2	HB 2 3 0 5 9 0	Set screw for return spring	H×1	
3	HB 2 3 0 3 9 0	Needle bar driver fixing pin	H×1	
4	A 9 0 1 2 1 9 0	DU Bush (MB0606DU)	H×1	
5	HB 2 3 0 3 8 3	Needle bar driver	H×1	
6	KB 2 3 0 0 8 0	Needle bar driver guide block	H×1	
7	KB 2 3 0 0 7 0	90° Crank left screw	H×1	
8	KB 2 3 0 0 6 0	Crank rod	H×1	
9	A 9 0 1 1 1 1 5	Needle bearing (K9×12×10T2)	H×1	
1 0	HB 2 3 0 3 7 2	Needle bar driver fixing base	H×1	
1 1	HB 2 3 0 4 2 0	Needle bar driver stopper set collar	H×1	
1 2	HB 2 3 0 4 1 4	Needle bar driver stopper	H×1	
1 3	KL 2 3 0 2 8 0	Lock lever (With roller)	H×1	
1 4	KF 2 3 0 6 3 0	Lock lever shaft	H×1	
1 5	KF 2 3 0 6 5 0	Lock lever bracket	H×1	
1 6	KF 2 3 0 6 4 0	Lock connecting bar clamp	H×1	
1 7	KF 3 3 0 3 8 1	Lock bar hand grip	2	
1 8	KC 3 3 0 4 1 0	Lock connecting rod (L=2000)		
1 9	KF 2 3 0 6 6 1	Lock lever spring	H×1	
2 0	KF 2 3 0 6 7 0	Lock lever spring pin	H×1	
2 1	HT 2 3 0 2 0 1	Needle bar driver (a'ssy)	H×1	
2 2		Hex. socket set screw M4×4(With adhesion)	H×2	1
2 3		Hex. socket bolt M4 ×12		
2 4		Hex. socket bolt M4 ×15		
2 5		Hex. nut M8		
2 6		Hex. nut M4		
2 7		Hex. socket set screw M4×6		
2 8		Hex. socket set screw M5×5		
2 9		Hex. socket bolt M5×10		
3 0		Hex. nut M10		

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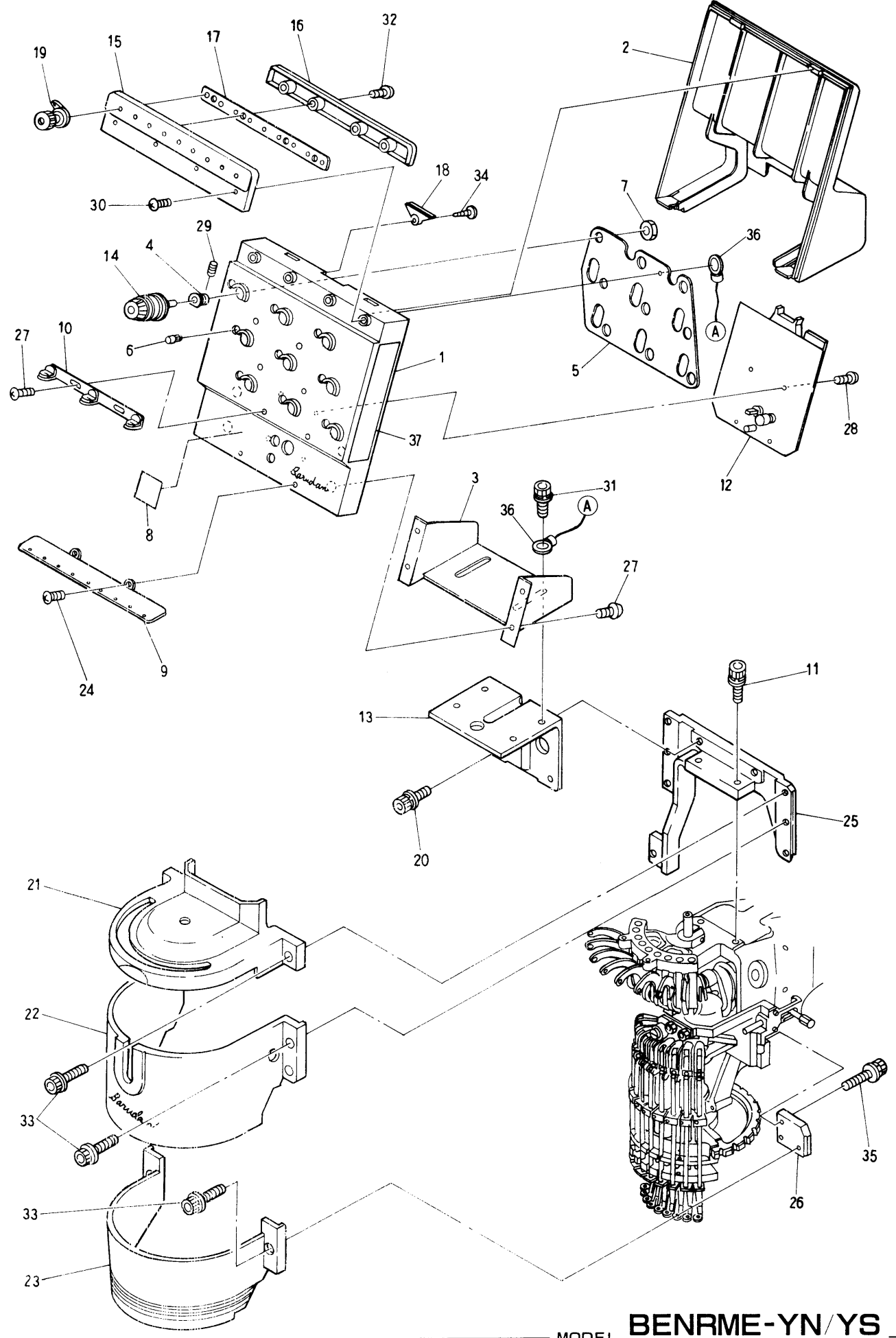


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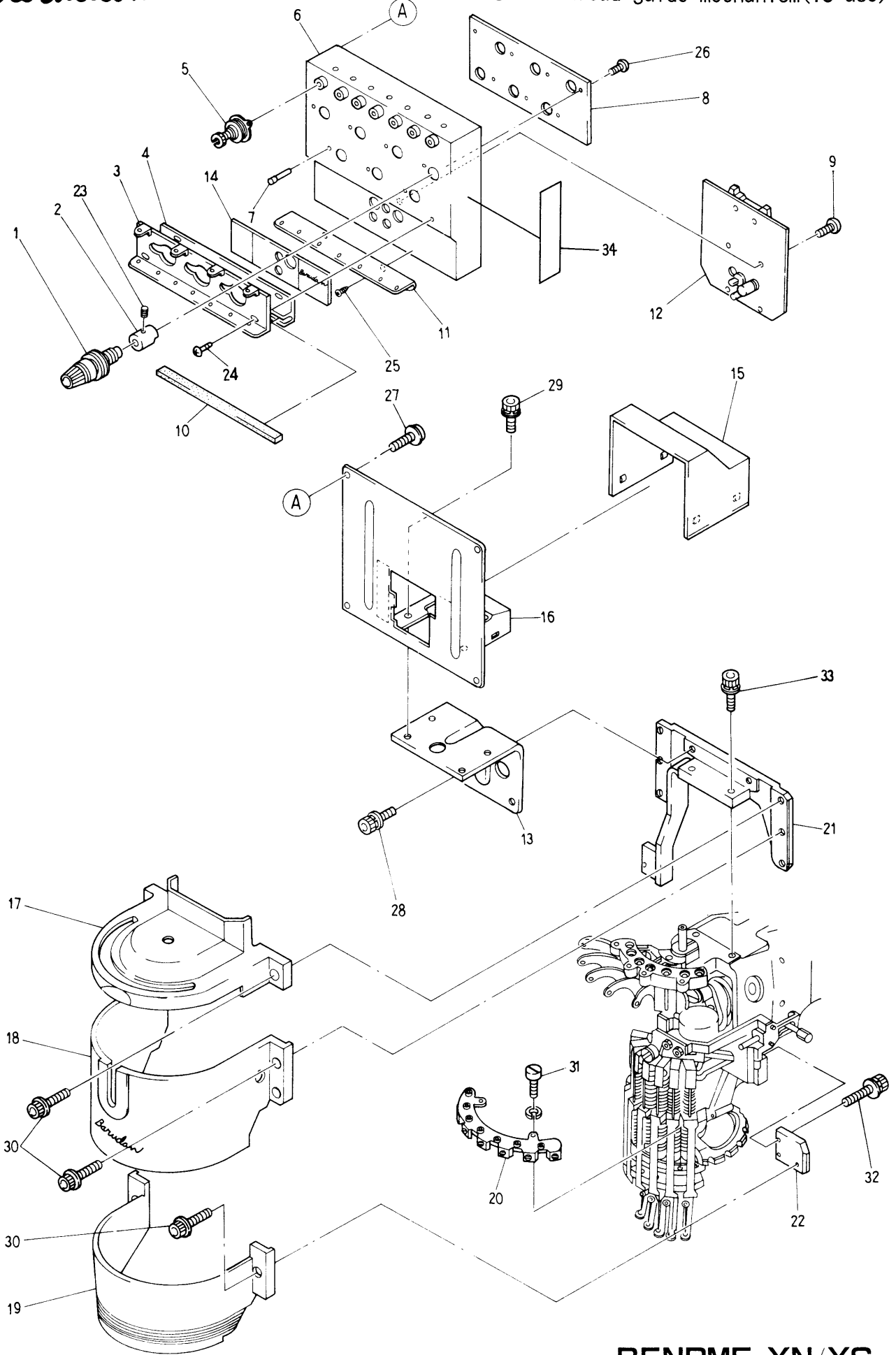


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BENSME-YN/YS

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 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 (YN)	H×1	
10	HT240060	First thread guide (YN)	H×3	
11		Hex. socket bolt M5×20 (With plain washer)		
12	EBY01100	4619 Head board	H×1	
13	KB240051	Tension base bracket {Multi (MS)}	H×1	
14	HT240320	Dial tension unit complete (YN)	H×9	
15	HT240210	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	HT240240	Blind cap	H×1	
19	HT240330	Thread guide for upper tension	H×9	
20		Hex. socket bolt M5×15 (With plain washer)		
21	KB250020	Sewing head cover (A)	H×1	
22	KB250030	Sewing head cover (B)	H×1	1
23	KB250040	Sewing head cover (C)	H×1	
24		Tapping screw M4×10		
25	KB250050	Sewing head cover fixing bracket	H×1	
26	KB250060	Sewing head cover fixing stay	H×1	
27		Truss screw M4×10		
28		Tapping pan screw M3×8		
29		Hex. socket set screw M4×12		
30		Pan screw M3×6		
31		Hex. socket bolt with washer M5×10		
32		Tapping screw II M3×12		
33		Hex. socket bolt M4×6 (With plain washer, Spring washer)		
34		Tapping screw M3×12		
35		Hex. socket bolt M4×15 (With plain washer, Spring washer)		
36	HV240000	Tension earth cable (NS)	H×1	
37	HB790030	Tension base caution label	H×1	

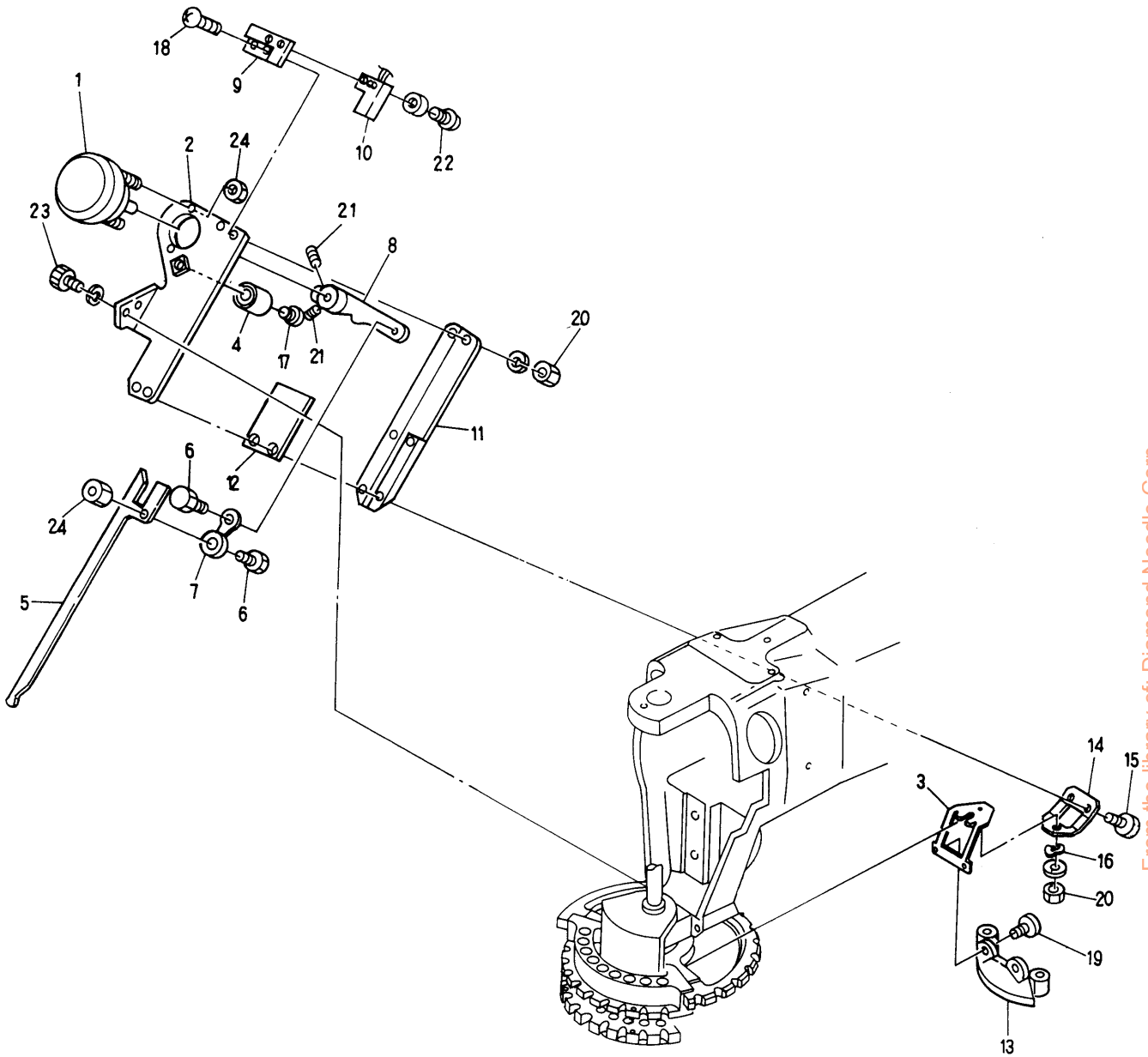
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ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT 2 4 0 5 3 0	Dial type tension unit complete (YS)		YF...H×5, YS...H×7
2	HP 2 4 1 1 5 0	Tension base (With screw)		YF...H×5, YS...H×7
3	HP 2 4 1 1 8 0	First thread guide (7)	H×1	YS
	HT 2 4 1 1 7 0	First thread guide (5)	H×1	YF
4	HP 2 4 1 4 6 0	Thread guide felt fixing plate (7)	H×1	YS
	HP 2 4 1 4 5 0	Thread guide felt fixing plate (5)	H×1	YF
5	HP 2 4 1 4 4 0	Upper tension unit complete (D=13.5)		
6	HP 2 4 1 1 2 2	Tension base (7)	H×1	HP241160YS HP241150YS
	HP 2 4 1 1 1 2	Tension base (5)	H×1	HP241160YF HP241150YF
7	HP 2 4 1 1 6 0	Upper thread detection pin		YF...H×5, YS...H×7
8	HP 2 4 1 3 8 1	Tension earth plate (7)	H×1	YS
	HP 2 4 1 3 7 1	Tension earth plate (5)	H×1	YF
9		Tapping screw 2×8		
10	HP 2 4 1 4 8 0	Thread guide felt (7)	H×1	YS
	HP 2 4 1 4 7 0	Thread guide felt (5)	H×1	YF
11	HB 2 4 0 2 6 0	Second thread guide plate (7)	H×1	YS
	HB 2 4 0 2 7 0	Second thread guide plate (5)	H×1	YF
12	EBY 0 1 0 7 0	4613 Head board	H×1	
13	KB 2 4 0 0 5 1	Tension base bracket	H×1	
14	KU 2 4 1 4 0 0	Tension base label	H×1	
15	KB 2 4 0 1 0 0	Tension cable cover	H×1	
16	KB 2 4 0 0 6 0	Tension base (7)	H×1	YS
	KB 2 4 0 0 7 0	Tension base (5)	H×1	YF
17	KB 2 5 0 0 2 0	Sewing head cover A	H×1	
18	KB 2 5 0 0 3 0	Sewing head cover B	H×1	
19	KB 2 5 0 0 4 0	Sewing head cover C	H×1	
20	KG 2 5 0 0 1 0	Thread end trap unit a'ssy (7)	H×1	YS
	HP 2 5 0 0 5 0	Thread end trap unit a'ssy (5)	H×1	YF
21	KB 2 5 0 0 5 0	Sewing head cover fixing bracket	H×1	
22	KB 2 5 0 0 6 0	Sewing head cover fixing stay	H×1	
23		Set screw (SM11/64 40×5.5)		
24		Truss screw M4×6		
25		Tapping screw M3.5×8		
26		Pan screw M3×4		
27		Pan screw M4×8 (With plain washer)		
28		Hex. socket bolt M5×15 (With plain washer, Spring washer)	H×2	
29		Hex. socket bolt M5×10 (With plain washer, Spring washer)	H×4	
30		Hex. socket bolt M4×6 (With plain washer)		
31		Screw (SM9/64 40×10)		
32		Hex. socket bolt M4×15 (With plain washer, Spring washer)		
33		Hex. socket bolt (With plain washer, Spring washer)		
34	HB 7 9 0 0 3 0	Tension base caution label	H×2	

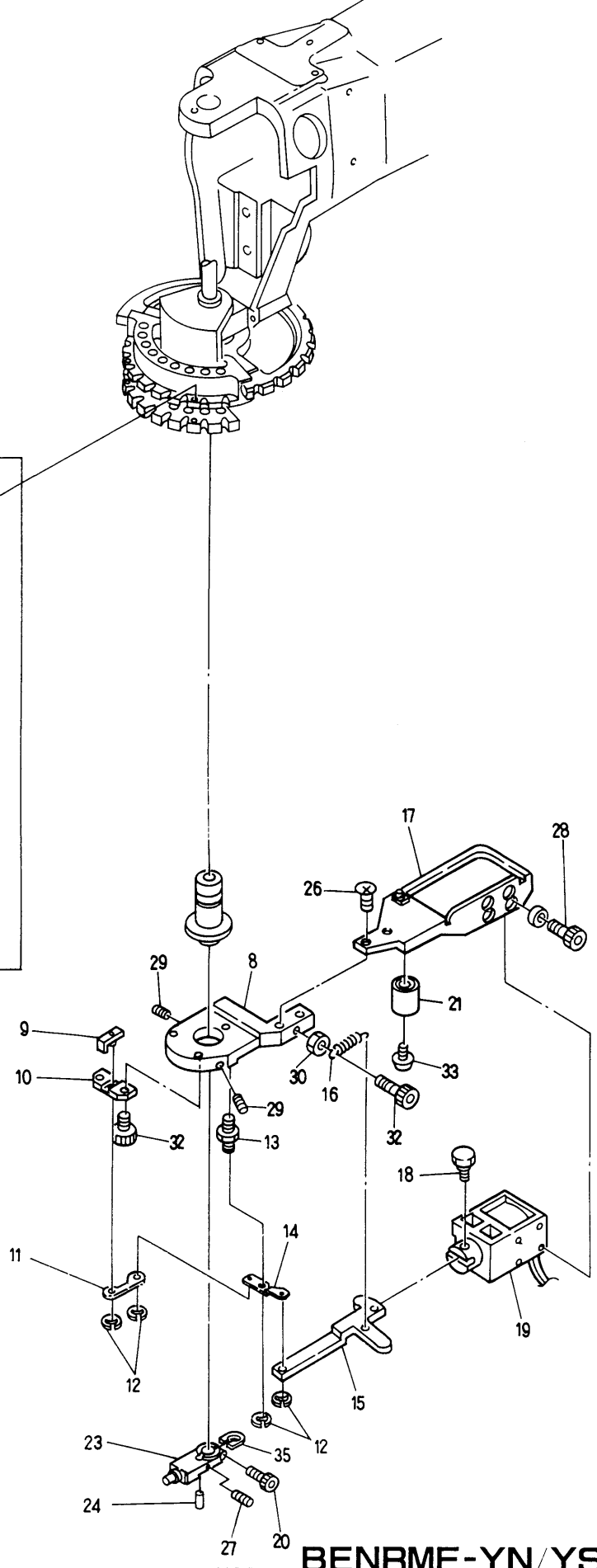
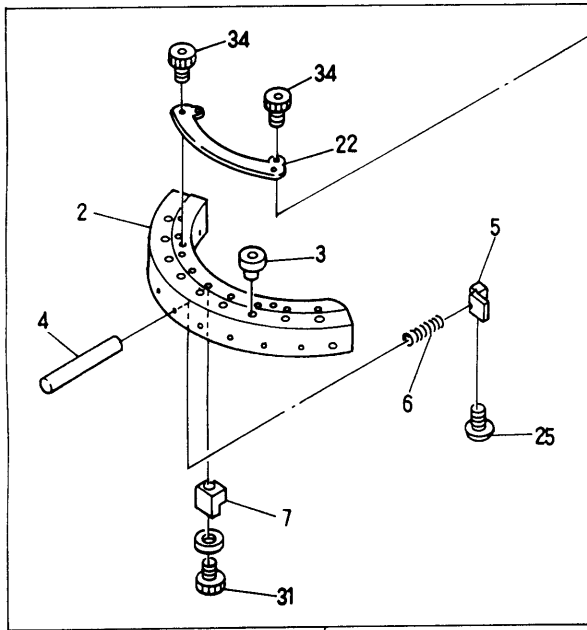


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BENSME-YN/YS



(Thread support section)

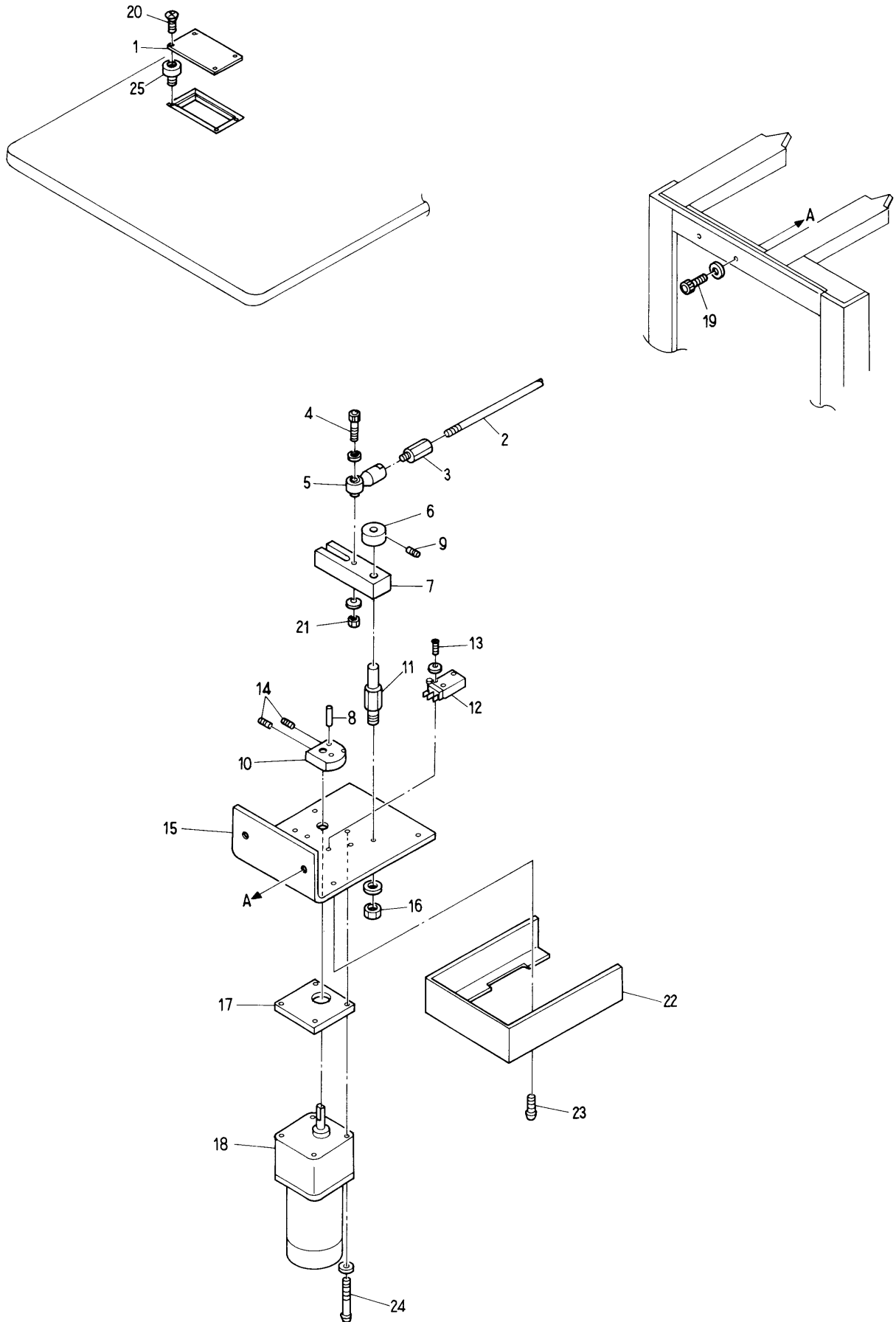


**BENRME-YN/YS**  
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ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HT270030	Thread support apron a'ssy	H×1	
2	HT270001	Thread support apron	H×1	
3	KF230580	Take up lever ceramic	H×9	
4	HT270040	Thread support shaft	H×9	
5	HT270021	Thread support clamp	H×9	
6	KC270271	Support spring	H×9	
7	KC270292	Thread support block	H×9	
8	KL270000	Fixing base $\phi 3$	H×1	
9	HT270120	Thread support slider	H×1	
10	HT270100	Slide base	H×1	
11	HT270080	Driving plate	H×1	
12	A9012056	E-Ring $\phi 3$	H×4	
13	KL270040	Lever rotary shaft	H×1	
14	HT270090	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 fixing clamp bolt	H×1	
21	KN272400	Stopper eccentric	H×1	
22	HT270010	Thread support apron fixing stay	H×1	
23	HT230361	Driving shaft fixing plate	H×1	
24	HT270350	Thread hook disk fixing pin	H×1	
25	HT270062	Set screw for thread support clamp	H×9	
26		Flush screw M4×8		
27		Set screw M3×5		
28		Hex. socket bolt M3×6		
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		
35	HT230830	Washer for driving shaft fixing plate	H×1	

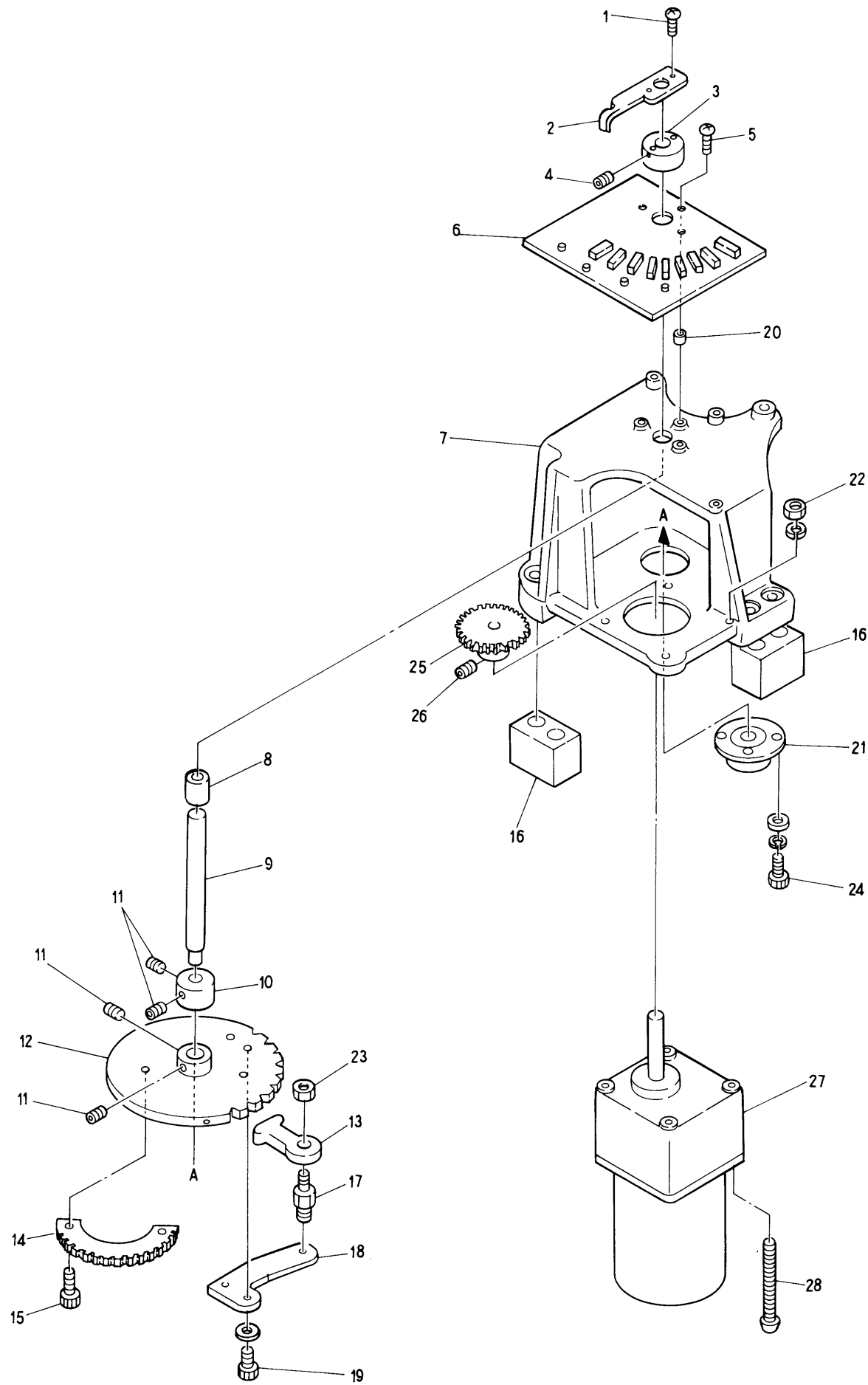


MODEL BENRME-YN/YS  
BENSME-YN/YS

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ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KC 2 7 1 4 4 0	Drive service cover	1	
2	KC 3 3 0 4 1 0	Rock connecting rod	2	
3	KC 3 3 0 5 1 0	Hex. connecting bar (L)	1	
4		Hex. socket bolt M6×20		
5	A 9 0 1 2 0 0 2	Uniball joint PR-6	1	
6	KC 3 3 0 1 8 0	Collar φ10	1	
7	KC 2 7 1 1 4 0	Motor lever	1	
8	KN 2 7 2 3 5 0	Drive pin	1	
9		Hex. socket screw M5 × 6		
1 0	KS 2 7 0 0 3 0	Drive cam	1	
1 1	KC 2 7 1 1 5 1	Motor lever turret shaft	1	
1 2	A 9 0 5 2 0 0 5	Micro switch V-01L 2255	1	
1 3		Truss screw M3×15, M3×20		
1 4		Hex. socket set screw M5×8		
1 5	KC 2 7 1 1 6 2	Motor bracket	1	
1 6		Hex. nut M8		
1 7	KC 2 7 1 4 3 0	Motor spacer	1	
1 8	A 9 0 6 5 0 2 6	Reversible motor RM H6A 8PEAA(6RH D36)	1	
1 9		Hex. socket bolt M8×30		
2 0		Truss screw M4×8 (Under cut)		
2 1		Hex. nut M6		
2 2	KN 2 7 1 7 1 2	Motor bracket cover	1	
2 3		Truss screw M3×6		
2 4		Pan screw M5×65		
2 5		Rag nut (C) M4	4	

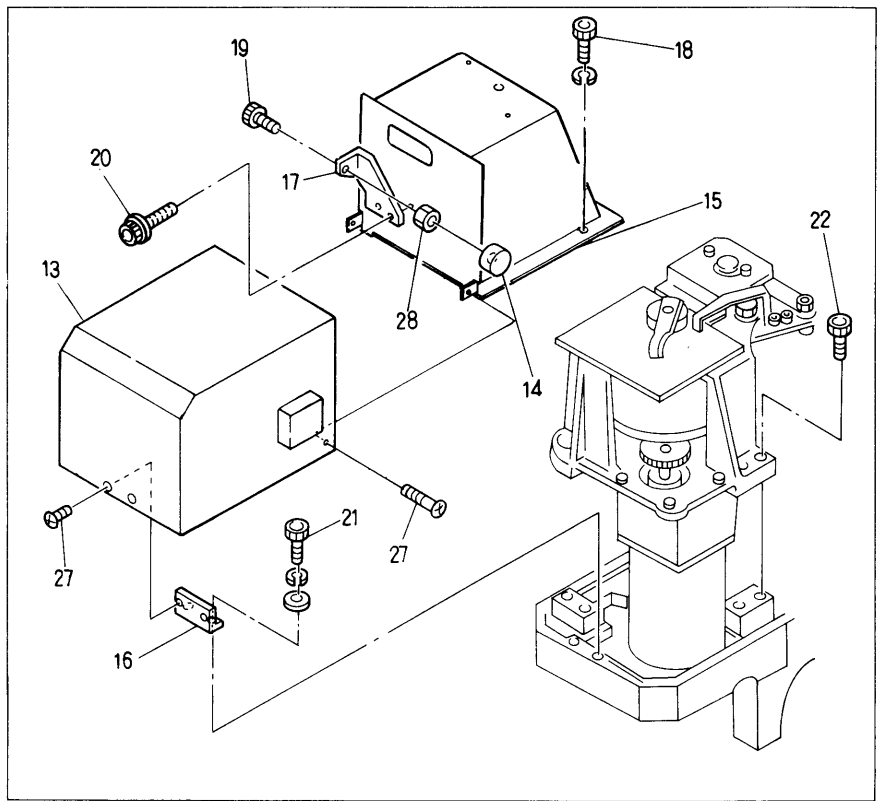
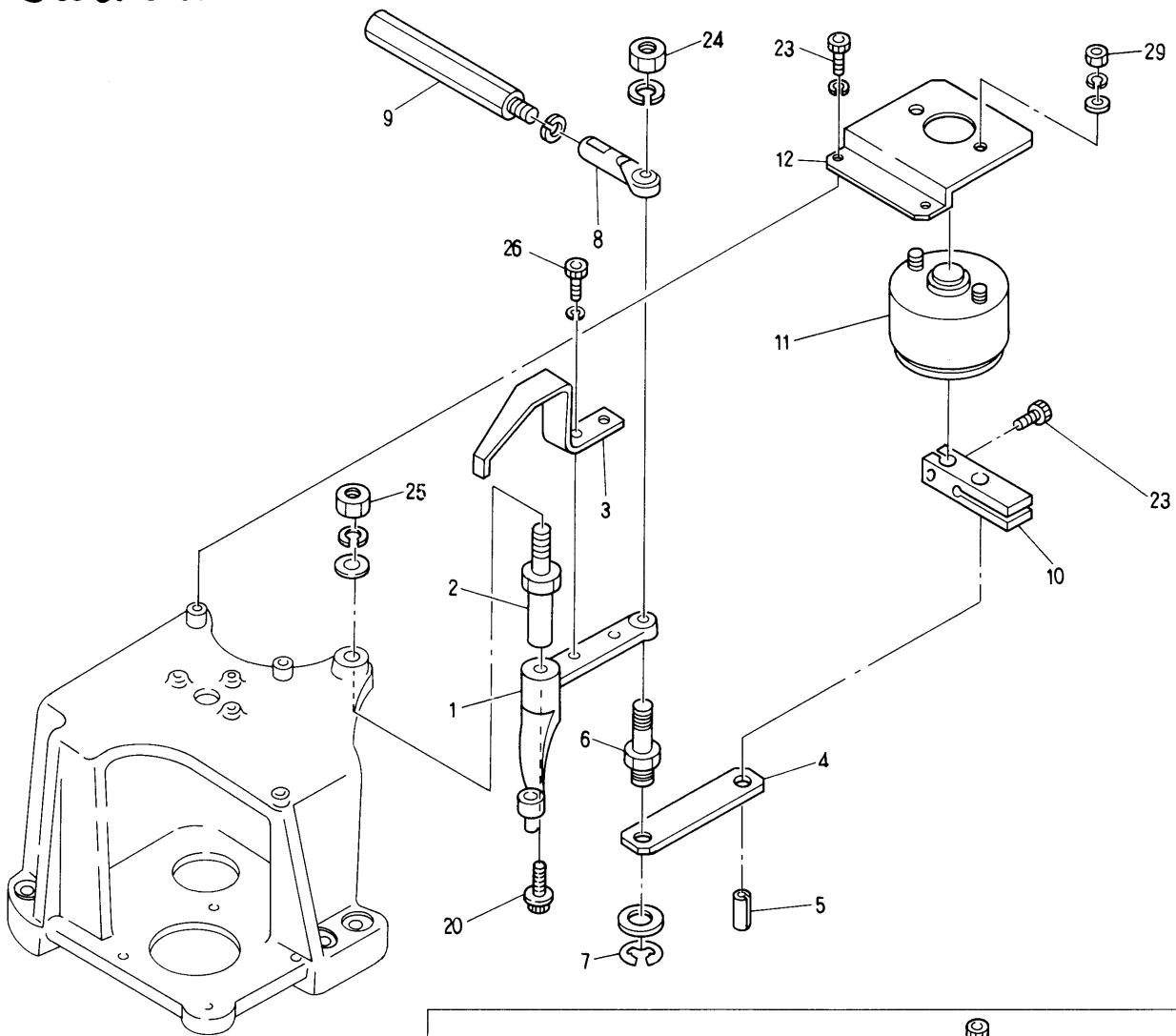
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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**

ITEM	LIST No	DESCRIPTION	Q'TY	REMARK
1		Truss screw M3×6		
2	KC330280	Needle bar detection plate	1	
3	KC330170	Detection plate collar	1	
4		Hex. socket set screw M5×10		
5		Truss screw M3×12		
6	EBY01120	3760 Needle positioner	1	
7	KC330180	Needle turning unit base	1	
8	KC330190	Oil-less metal	1	
9	KC330161	Needle turning shaft	1	
10	KC330180	Collar φ10	1	
11		Hex. socket set screw M5×6		
12	KT330001	Control turning plate	1	
13	A9012001	Uniball joint (RD4020R)	1	
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 5×4	3	
21	KC330610	Oil-less bearing (OCH1A1) S/S LS B-G8-080V	1	
22		Hex. nut M4		
23		Hex. nut M5		
24		Hex. socket bolt M4 ×12		
25	KC330210	Needle turning gear No.1(0.8M50T)	1	
26		Hex. socket set screw M4 ×8		
27	A9065035	Geard motor RM-F6A5PC3R163-120	1	
28		Flush screw M4 ×65		

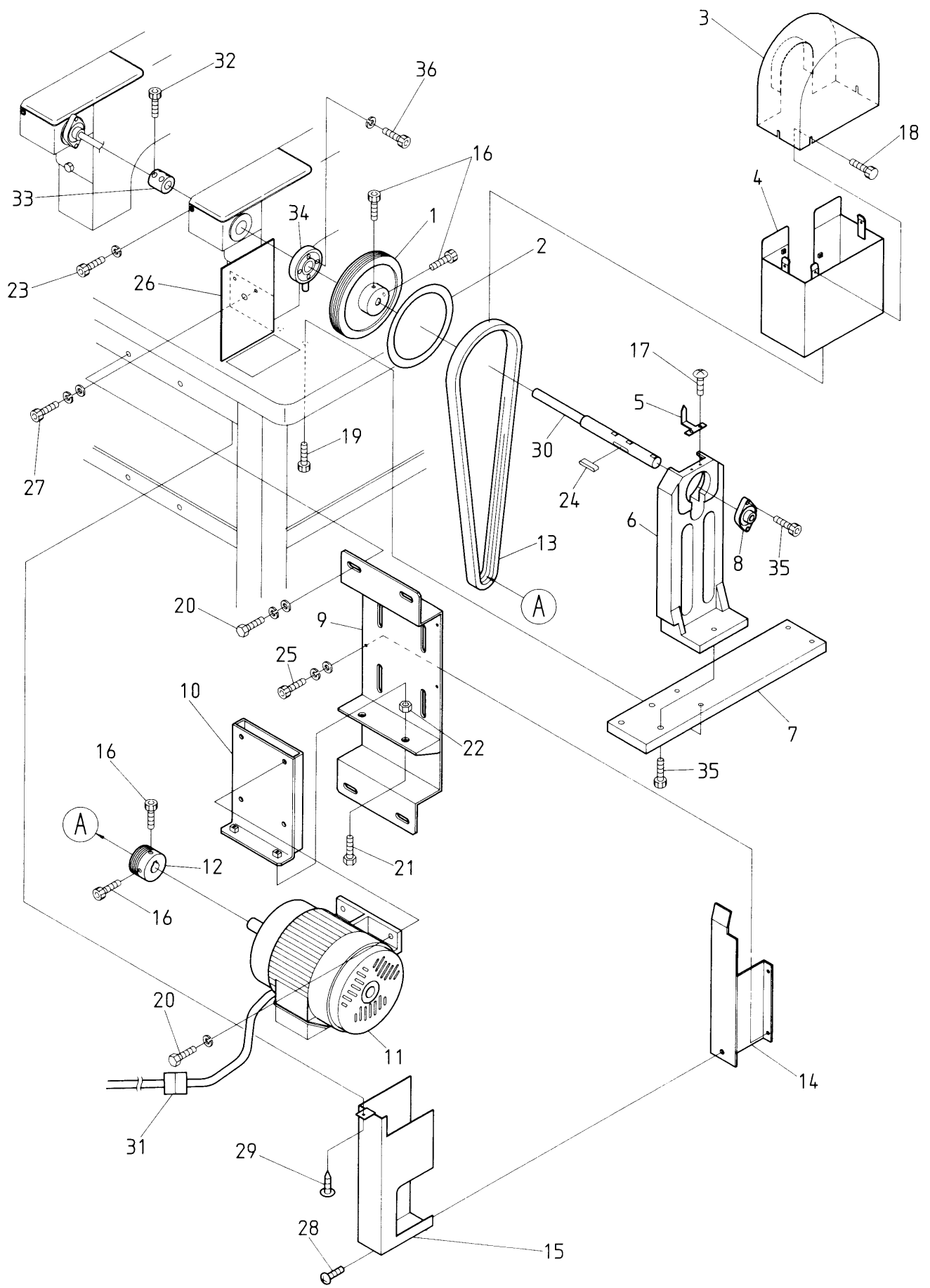
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MODEL **BENSME-YN**

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KG230610	Lock lever	1	
2	KF230630	Lock lever shaft	1	
3	KC330290	Lock detection plate	1	
4	KN330250	Lock lever link	1	
5	A9012143	Spring pin $\phi 6$ L=12	1	
6	KC330230	Lock lever pin	1	
7	A9012137	Snap ring $\phi 8$	1	
8	A9012002	Uni ball joint (PR-6)	1	
9	KC330510	Hex. connecting bar (L)	1	
10	KN330240	Lock solenoid lever	1	
11	KC330850	Rotary solenoid 6SR-25(27×4 ×9) L=15	1	
12	KC330260	Rotary solenoid bracket	1	
13	KV330020	Cover ASSY	1	
14	KN121350	Needle bar cap	1	
15	KV330010	Automat base	1	
16	KC330910	Cover braket	1	
17	KL330020	Lock lever stopper	1	
18		Hex. socket bolt M6 × 12		
19		Hex. socket bolt M5 × 30		
20		Hex. socket flange bolt M5 × 4		
21		Hex. socket bolt M5 × 10		
22		Hex. socket bolt M6 × 60		
23		Hex. socket bolt M5 × 12		
24		Hex. nut M6		
25		Hex. nut M8		
26		Hex. socket bolt M4 × 8		
27		Truss screw M4 × 6		
28		Hex. nut M5		
29		Hex. nut M4		

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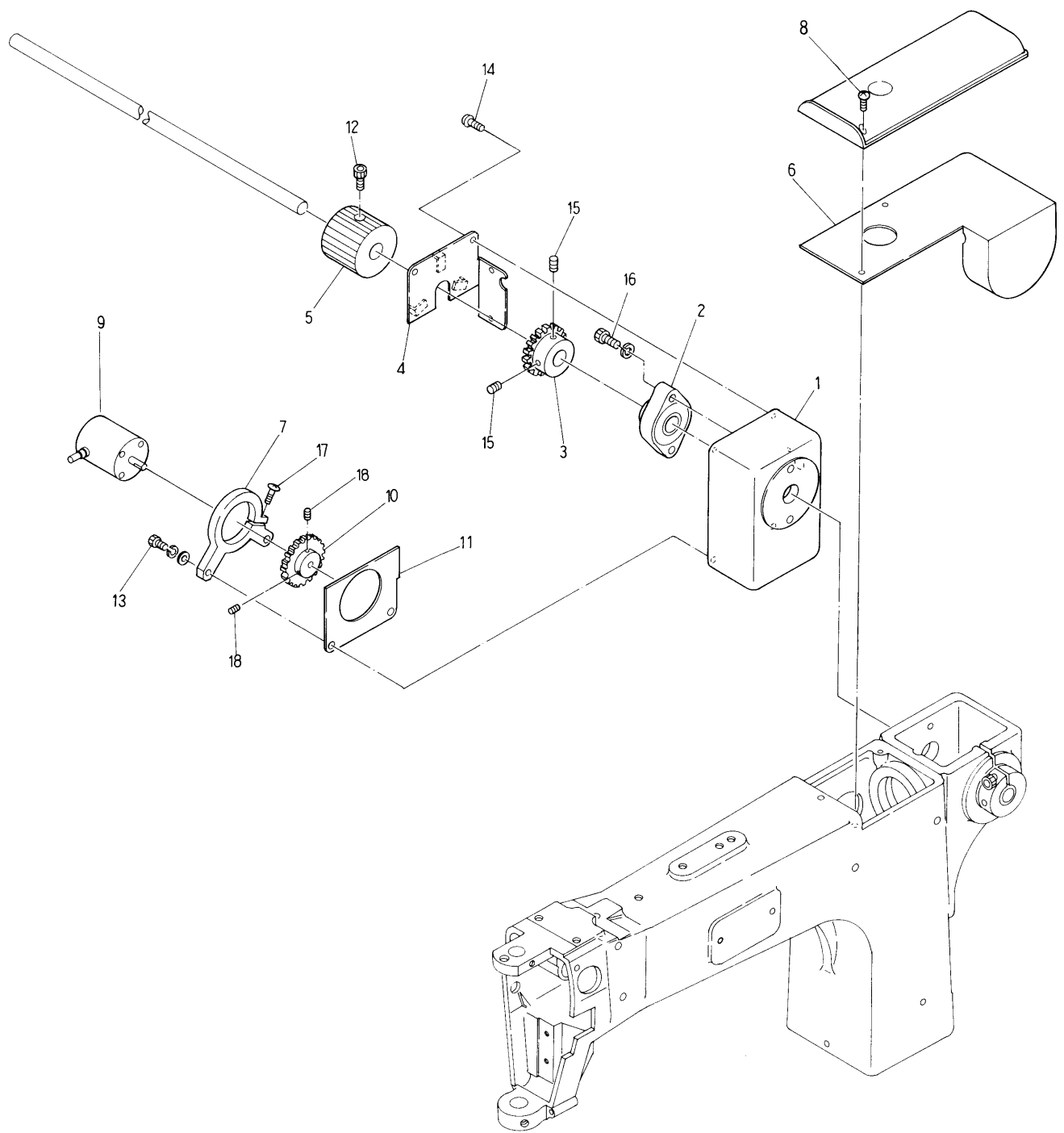


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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**



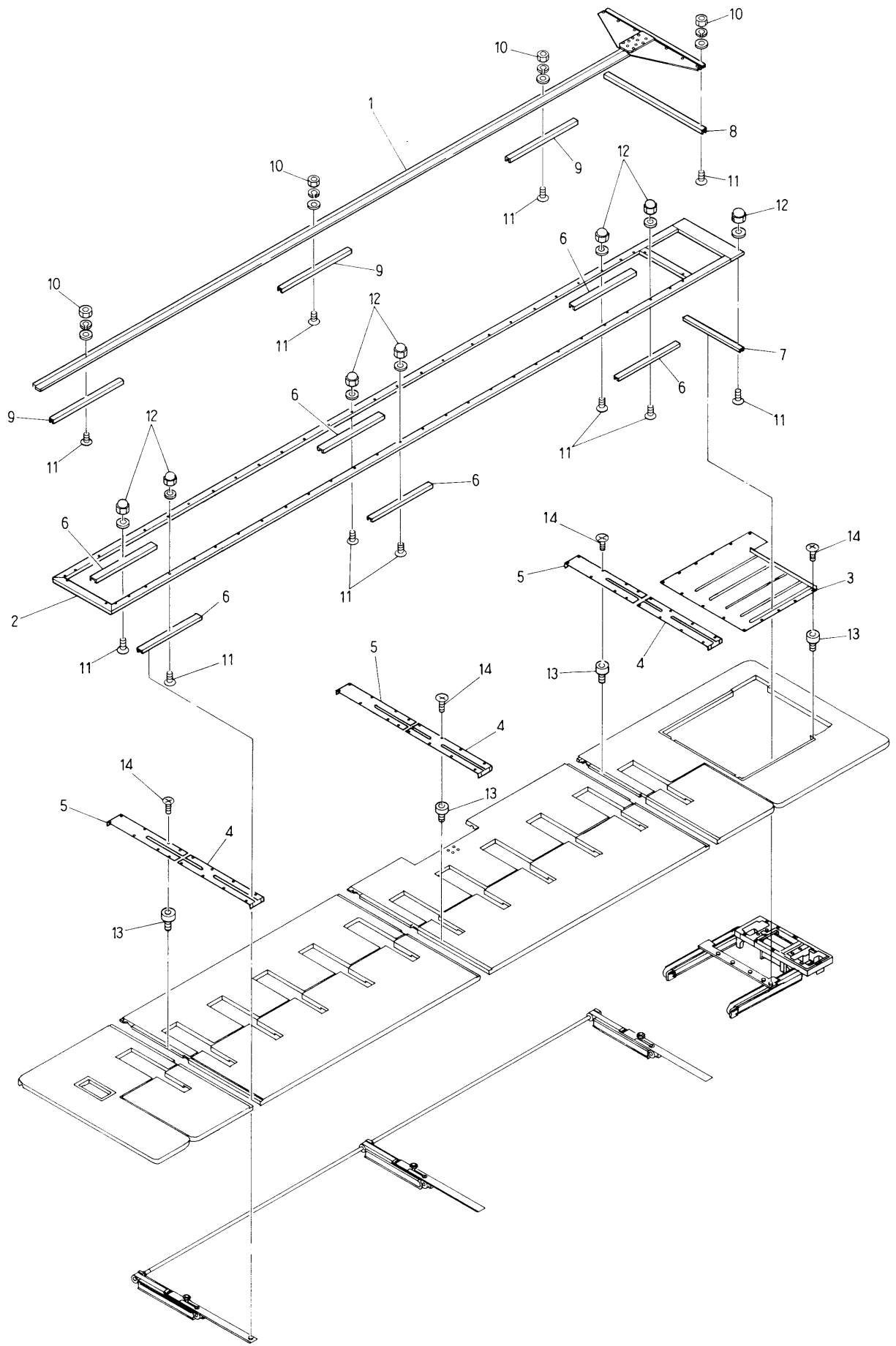
LIST	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KN310000	Driving pulley $\phi 152.2$	1	
2	HP313690	Angle label (B)	1	
3	KV310041	Belt cover (Upper)	1	
4	KV310050	Belt cover (Lower)	1	
5	KV310090	Angle gauge	1	
6	KV310021	Shaft holder bracket	1	
7	KS310011	Shaft holder bracket base (cylinder)	1	
8	A9011017	Bearing (BLF 204)	1	
9	KV310070	Motor base (BENSME)	1	
10	KV310080	Motor fixing base (BENSME)	1	
11	HB310280	Motor FBK8-4P-0.75KW VF3 (With cable)	1	
12	KN310010	Motor pulley	1	
13	A9020200	Ribstar belt (4PK-1240)	1	
14	KS310020	Belt cover bracket (BENSME)	1	
15	KS310031	Belt cover (BENSME)	1	
16		Hex. socket bolt M6 $\times$ 12		
17		Pan screw M4 $\times$ 8		
18	A9012320	Screw	1	
19		Hex. socket bolt M8 $\times$ 20		
20		Hex. bolt M8 $\times$ 20		
21		Hex. bolt M8 $\times$ 55		
22		Hex. nut M8		
23		Hex. socket bolt M6 $\times$ 60		
24	WW310210	Both round parallel key (6 $\times$ 6 $\times$ 35)	1	
25		Hex. socket bolt M6 $\times$ 12		
26	KR310041	Belt cover bracket	1	
27		Hex. socket bolt M4 $\times$ 6		
28		Pan screw M4 $\times$ 6		
29		Pias biss		
30	KC320820	Top shaft connecting shaft (15 $\times$ 5700)		
31	A9053070	NS-Motor cable (7.5W)	1	
32		Hex. socket bolt		
33	HP320110	Top shaft connecting coupling	1	
34	A9011119	Ball bearing JAF(SH204)	1	
35		Hex. socket bolt M8 $\times$ 25		
36		Hex. socket bolt M5 $\times$ 25		



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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**



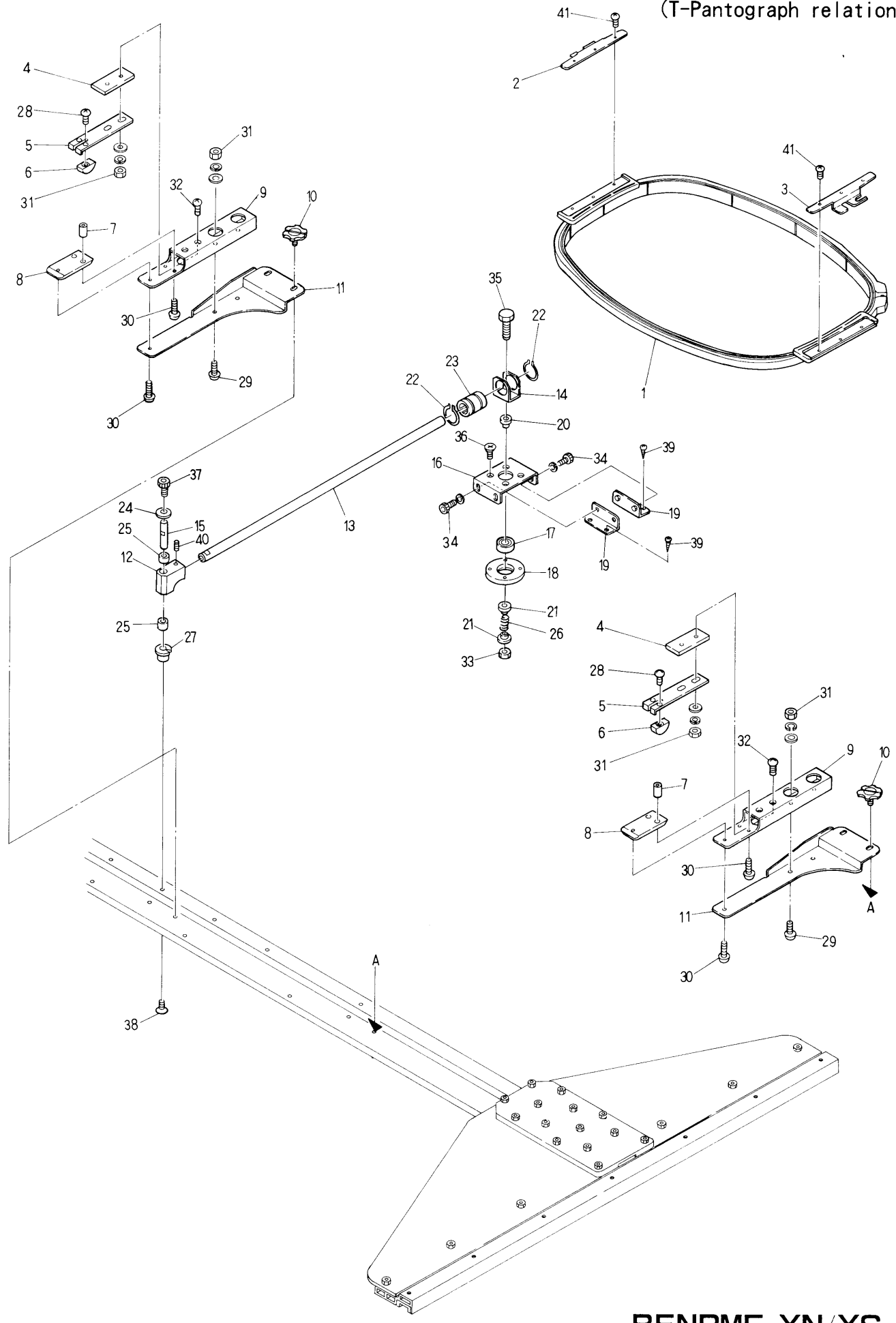


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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**



(T-Pantograph relation)

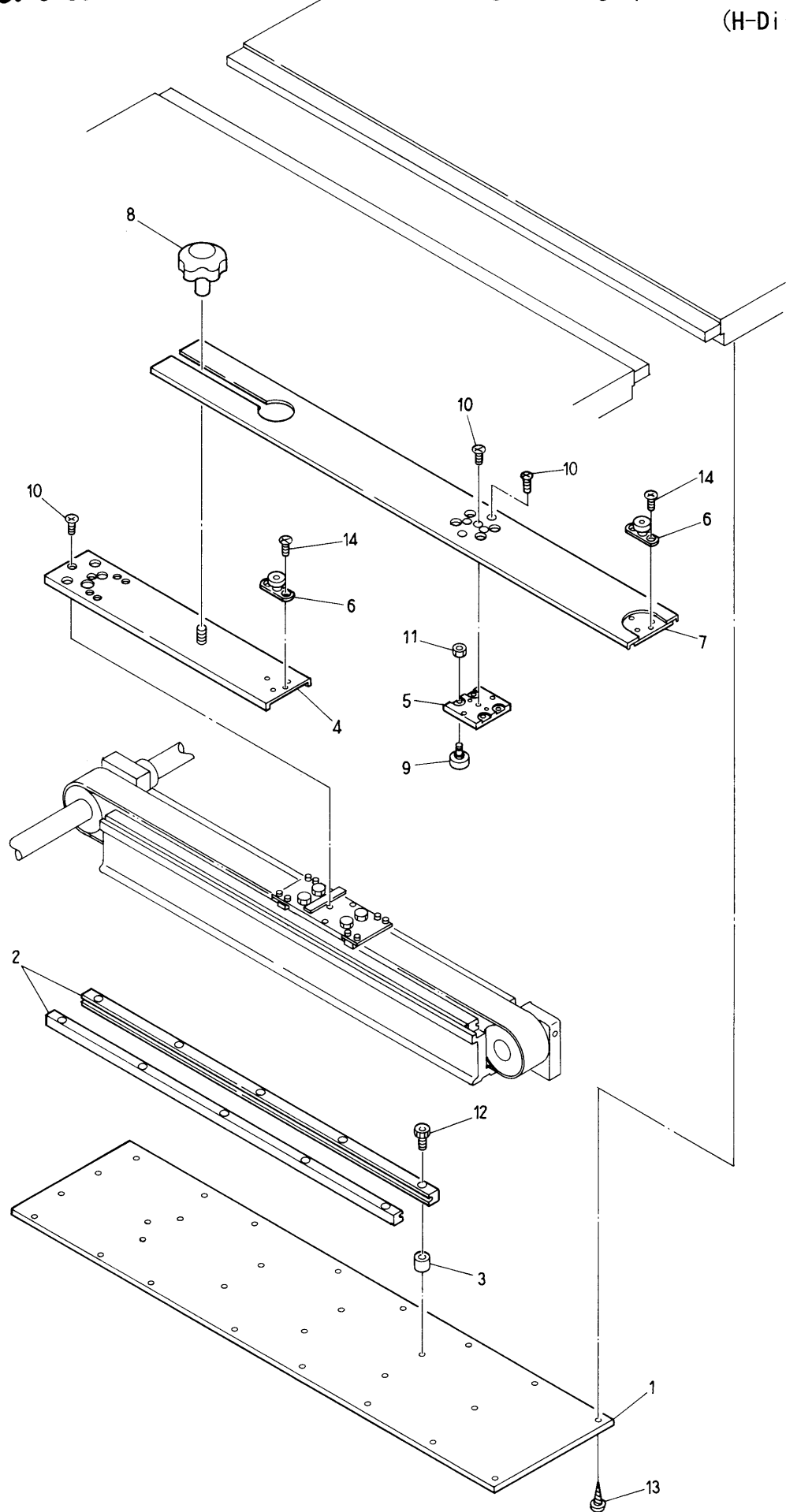


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MODEL BENRME-YN/YS  
BENSME-YN/YS

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	FR92300290A	Square pantograph 320×290	1 2	15...15
2	FR600528	Metal for allot wood frame (No.1) R	1 2	15...15
3	FR600529	Metal for allot wood frame (No.1) L	1 2	15...15
4	HS460200	Fixing spacer	1 3	15...16
5	HS460030	Frame fixing spring No.2	1 3	15...16
6	HS460050	Frame fixing block	2 6	15...32
7	HS460210	Frame fixing the position pin	2 6	15...32
8	KK460130	Frame slide plate	1 3	15...16
9	KK460050	Fixing base	1 3	15...16
10	HS730000	Knurling screw for pantograph	2 6	15...30
11	KK460061	Fixing stay	1 3	15...16
12	KK460070	Rotation block	6	
13	KK460090	Pantograph set driving shaft	6	
14	KK460040	Bush fixing bracket	6	
15	KK460080	Rotation shaft B	6	
16	KK460010	Pantograph set base (Upper)	6	
17	A9010036	Bearing (6900ZZ)	6	
18	KK460031	Bearing set plate	6	
19	KK460000	Pantograph set base (Lower)	1 2	
20	KK460020	Rotation shaft A	6	
21	KK460120	Spring set plate	1 2	
22	A9012064	C-Ring (For shaft) 21	1 2	
23	A9011131	Slide bush SM12GUU	6	
24	A9012164	Thrust washer R-TW 0815	6	
25	A9011132	DU Bush MB0805	1 2	
26	KK460140	Pantograph set spring	6	
27	A9012264	DU Bush (MB0808-15FDU)	6	
28		Truss screw M3×3		
29		Truss screw M3×7		
30		Truss screw M3×5		
31		Hex. nut M3		
32		Truss screw M3×10		
33		U-Nut M5		
34		Hex. socket bolt M5×10		
35		Hex. bolt M5×25		
36		Pan screw M4×10		
37		Hex. socket bolt M4×8		
38		Pan screw M4×12		
39		Bind tapping screw 4.5×24		
40		Hex. socket set screw M6×8		
41		Pan screw M3×6		

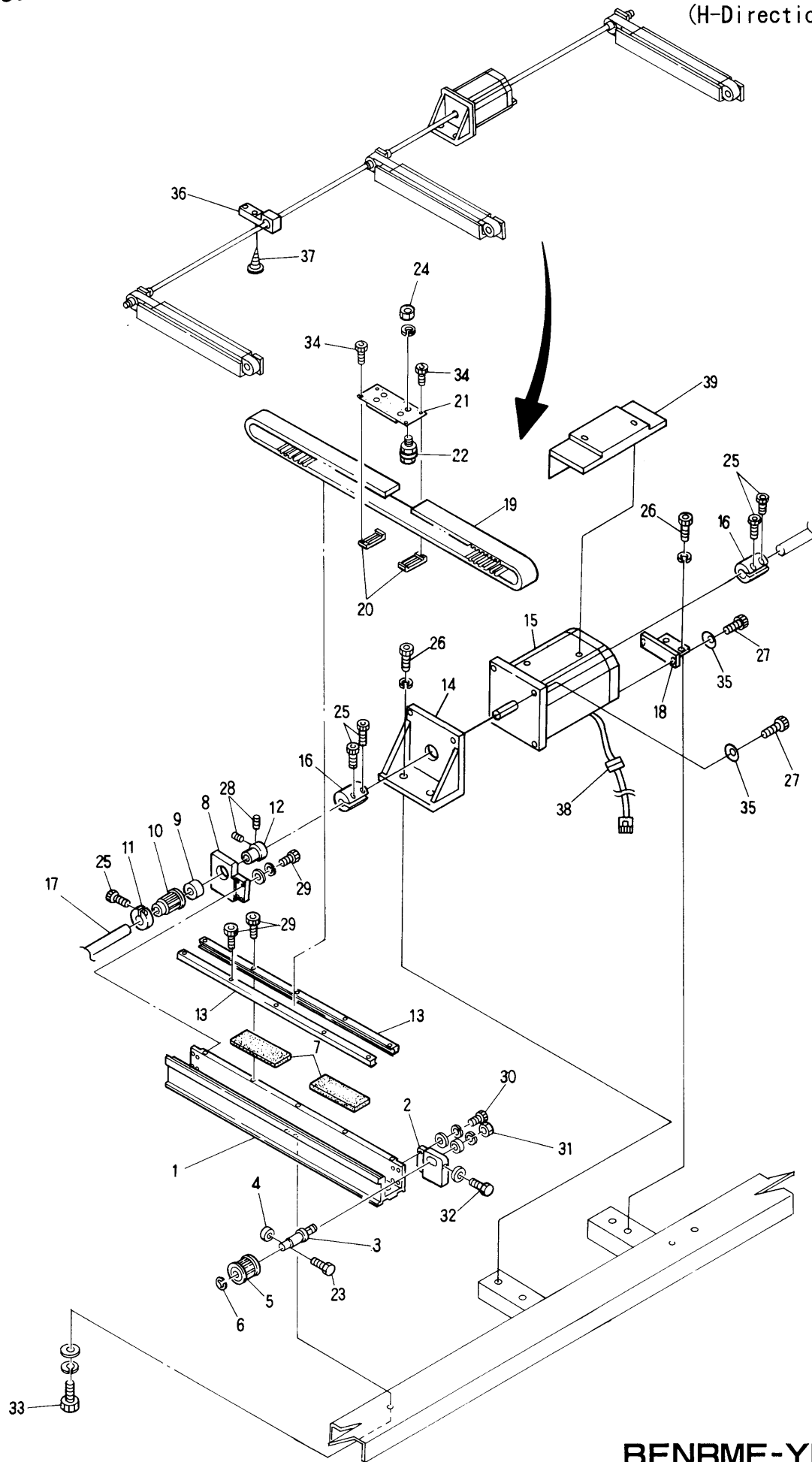
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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**







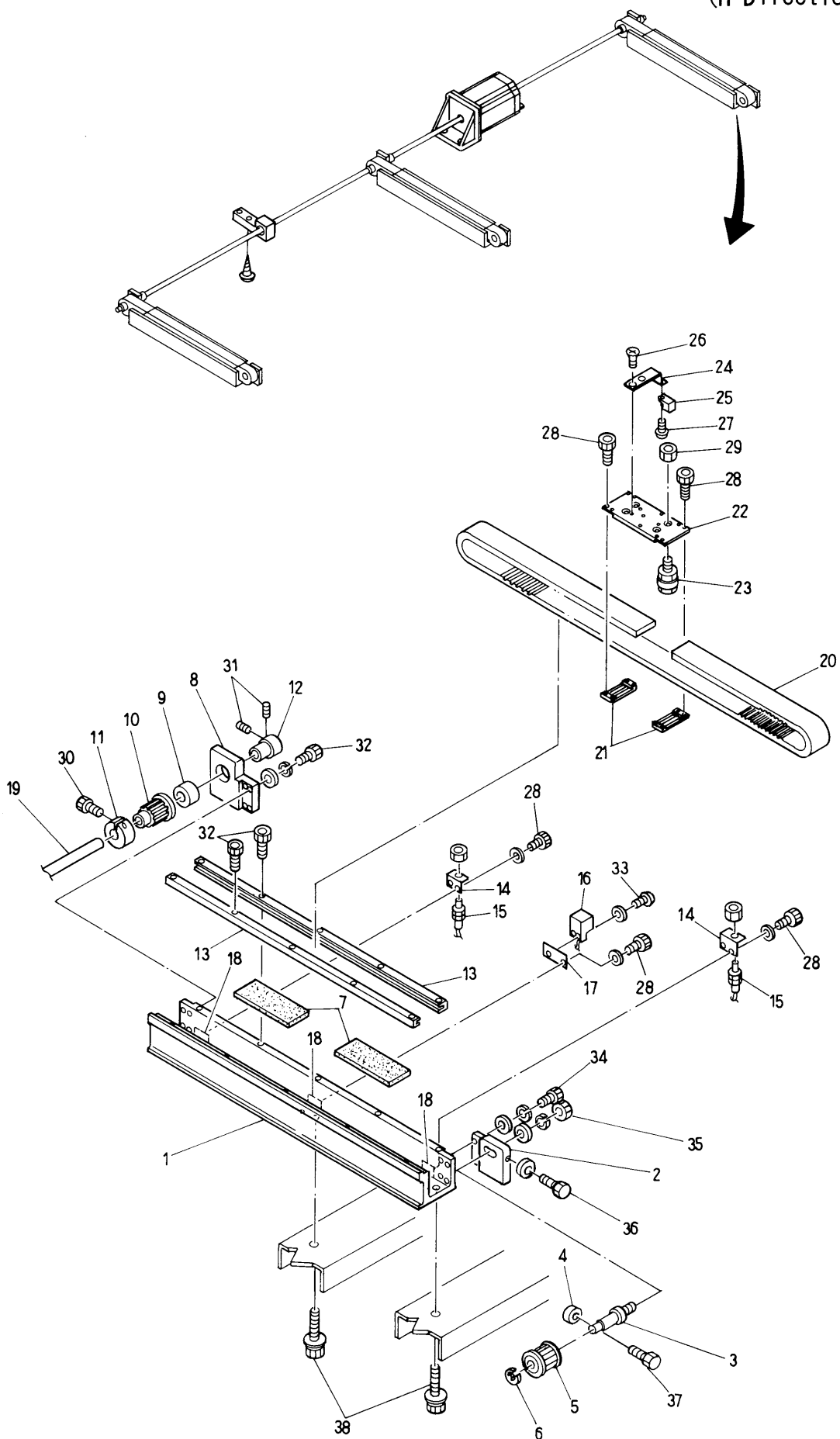
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MODEL BENRME-YN/YS  
BENSME-YN/YS

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KK480010	H-Guide rail base	3	15...4
2	KR480060	H·V-Guide front pulley bracket	3	15...4
3	HH481991	Timing pulley shaft	3	15...4
4	HH482110	Pulley shaft bolt cap	3	15...4
5	HV480050	Pantograph driving pulley (Front)	3	15...4
6	A9012052	E-Ring $\phi$ 10	3	15...4
7	KN480061	Rail base felt (100×38×6)	6	15...8
8	KR480050	H·V-Guide rear pulley bracket	3	15...4
9	A9011110	Needle bearing HK2016	3	15...4
10	HV480040	Pantograph driving pulley (Rear)	3	15...4
11	HH481980	Clamping $\phi$ 19	3	15...4
12	HH481970	Pulse motor connecting shaft collar	3	15...4
13	KK480140	V-Guide rail H-side (L=430)	6	15...8
14	HV480010	H-Pulse motor bracket		
15	HV480060	Pulse motor bracket (5M)		
16	HH481931	Pulse motor coupling		
17		H-Pulse motor connecting shaft	1	15...2
18	HV480020	H-Pulse motor bracket		
19	HV4801101035	Timing belt	3	15...4
20	HP482940	Timing belt set rack (5M)	6	15...8
21	KK140130	H-Roller base (B.A type)	3	15...4
22	HP482950	Roller pin a'ssy A	12	15...16
23		Hex. bolt M4×35		
24		Hex. nut M5		
25		Hex. socket bolt M5×18		
26		Hex. socket bolt M8×40		
27		Hex. socket bolt M6×22		
28		Hex. socket set screw M5×8		
29		Hex. socket bolt M4×15		
30		Hex. socket bolt M4×18		
31		Hex. nut M8		
32		Hex. socket bolt M4×25		
33		Hex. socket bolt M8×22		
34		Hex. socket bolt M3×8		
35		Disc spring 4 for hex. socket bolt		
36		Pulse motor connecting shaft support	1	15...2
37		Pias biss		
38	HV510020	H-pulse motor cable of extension (L=1500)	1	
39	KV310061	H-Pulse motor cover (BENSME)	1	

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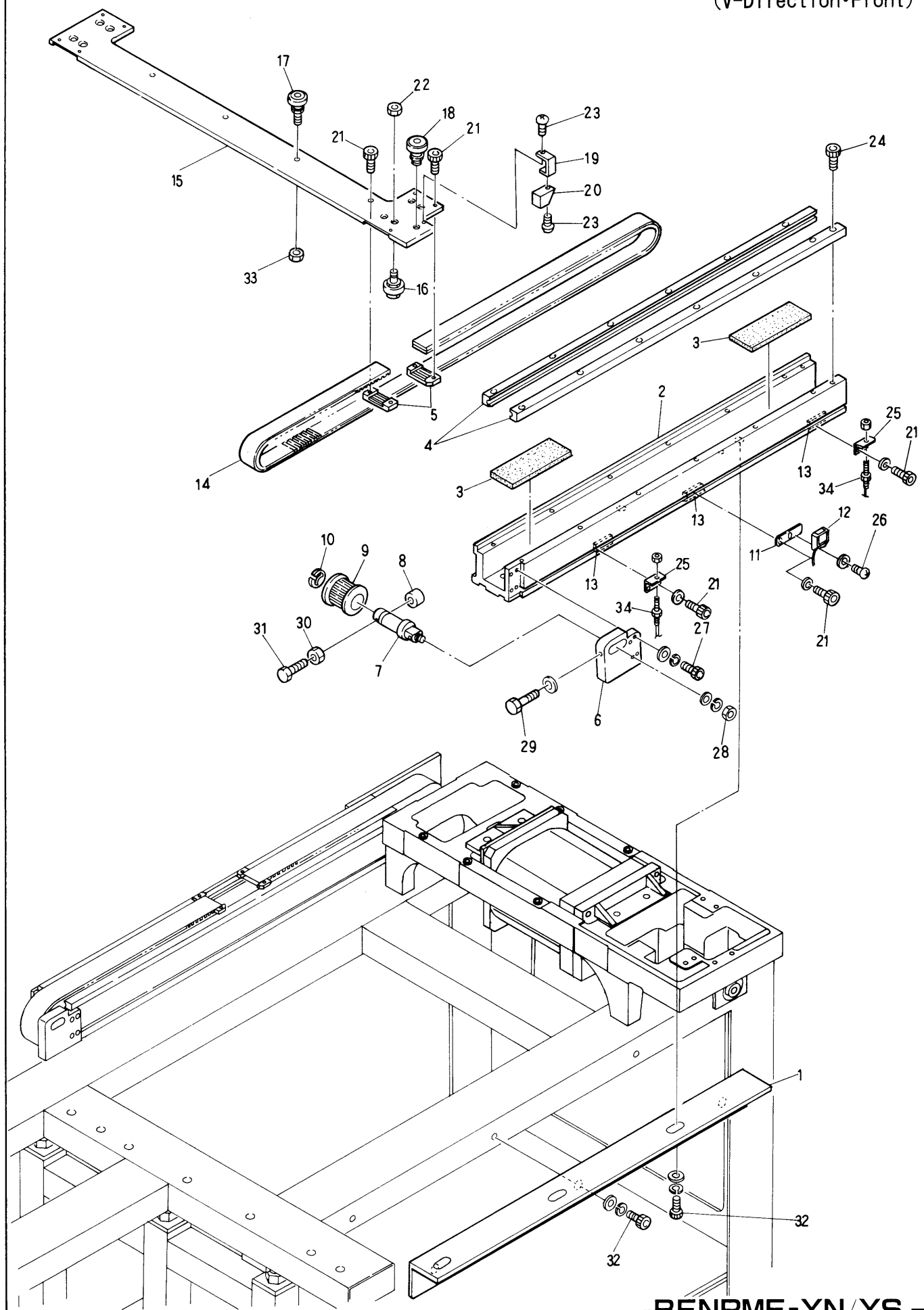
(H-Direction•Rear II)



MODEL BENRME-YN/YS  
BENSME-YN/YS

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KK480010	H-Guide rail base	1	
2	KR480060	H·V-Guide front pulley bracket	1	
3	HH481991	Timing pulley shaft	1	
4	HH482110	Pulley shaft bolt cap	1	
5	HV480050	Pantograph driving pulley (Front)	1	
6	A9012052	E-Ring	1	
7	KN480061	Rail base felt (100×38×6)	1	
8	KR480050	H·V-Guide rear pulley bracket	1	
9	A9011110	Needle bearing HK2016	1	
10	HV480040	Pantograph driving pulley (Rear)	1	
11	HH481980	Clamping $\phi 19$	1	
12	HH481970	Pulse motor connecting shaft collar	1	
13	KK480140	V-Guide rail H-Side (L=430)	2	
14	MT460240	RS-001 Bracket	2	
15	A9052024	Switch RS-001	2	
16	A9052031	Magnet proximity switch MH-601A	1	
17	KN450300	MH-601A Proximity switch fixing bracket	1	
18	KU460270	Plate nut (M3)	3	
19		H-Pulse motor connecting shaft B (L=985)	1	
20	A9020170	Timing belt	1	
21	HP482940	Timing belt set rack (5M)	2	
22	KK140130	H-Roller base (B.A type)	1	
23	HP482950	Roller pin assy A	4	
24	KU460342	H-Pantograph origin point magnet bracket	1	
25	A9052030	Magnet M-102A-02	1	
26		Flush screw M4×6		
27		Truss screw M3×6		
28		Hex, socket bolt M3×6		
29		Hex, nut M5		
30		Hex, socket bolt M5×18		
31		Hex, socket set screw M5×8		
32		Hex, socket bolt M4×15		
33		Truss screw M3×10		
34		Hex, socket bolt M4×18		
35		Hex, nut M8		
36		Hex, bolt M4×25		
37		Hex, bolt M4×35		
38		Hex, socket bolt M8×22		

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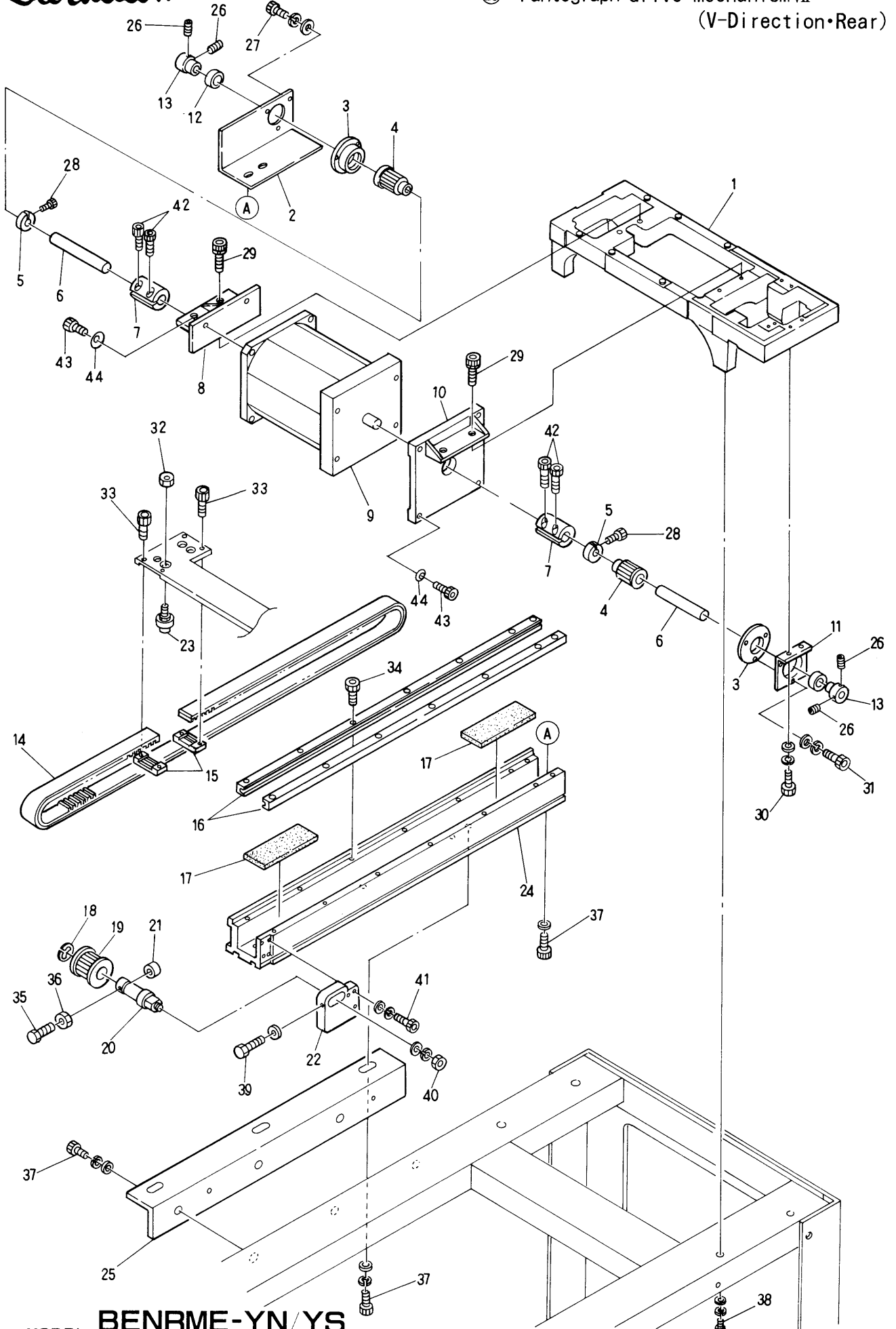


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MODEL BENRME-YN/YS  
BENSME-YN/YS

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KK480030	V-Guide rail base bracket (Front)	1	
2	KV480170	V-Guide rail base (Stroke 480)	1	
3	KN480061	Rail base felt (100×38×6)	2	
4	KN483450	V-Guide rail (L=660)	2	
5	HP482940	Timing belt set rack (5M)	2	
6	KR480060	H·V-Guide front pulley bracket	1	
7	HH481991	Timing pulley shaft	1	
8	HH482110	Pulley shaft bolt cap	1	
9	HV480050	Pantograph driving pulley (Front)	1	
10	A9012052	E-Ring ( $\phi 10$ )	1	
11	KN450300	MH-601A Proximity switch fixing bracket	1	
12	A9052031	Magnet proximity switch (MH-601A)	1	
13	KU460270	Plate nut (M3)	3	
14	HV4801101380	Timing belt	1	
15	KK480110	V-Roller base	1	
16	HP482950	Roller pin a'ssy A	4	
17	HP483111	Guide rail bearing pin a'ssy B	4	
18	HP483370	Guide rail bearing pin a'ssy B	1	
19	KN450311	V-Pantograph origin point magnet bracket	1	
20	A9052030	Magnet (M-102A-02)	1	
21		Hex. socket bolt M30×6		
22		Hex. nut M5		
23		Truss screw M30×6		
24		Hex. socket bolt M4×15		
25	MT460240	RS-001 Bracket (V-Side)	2	
26		Truss screw M3×10		
27		Hex. socket bolt M4×18		
28		Hex. nut M8		
29		Hex. bolt M4×25		
30		Hex. nut M4		
31		Hex. bolt M4×35		
32		Hex. socket bolt M8×20		
33		Hex. nut M6		
34	A9052024	Switch RS-001	2	

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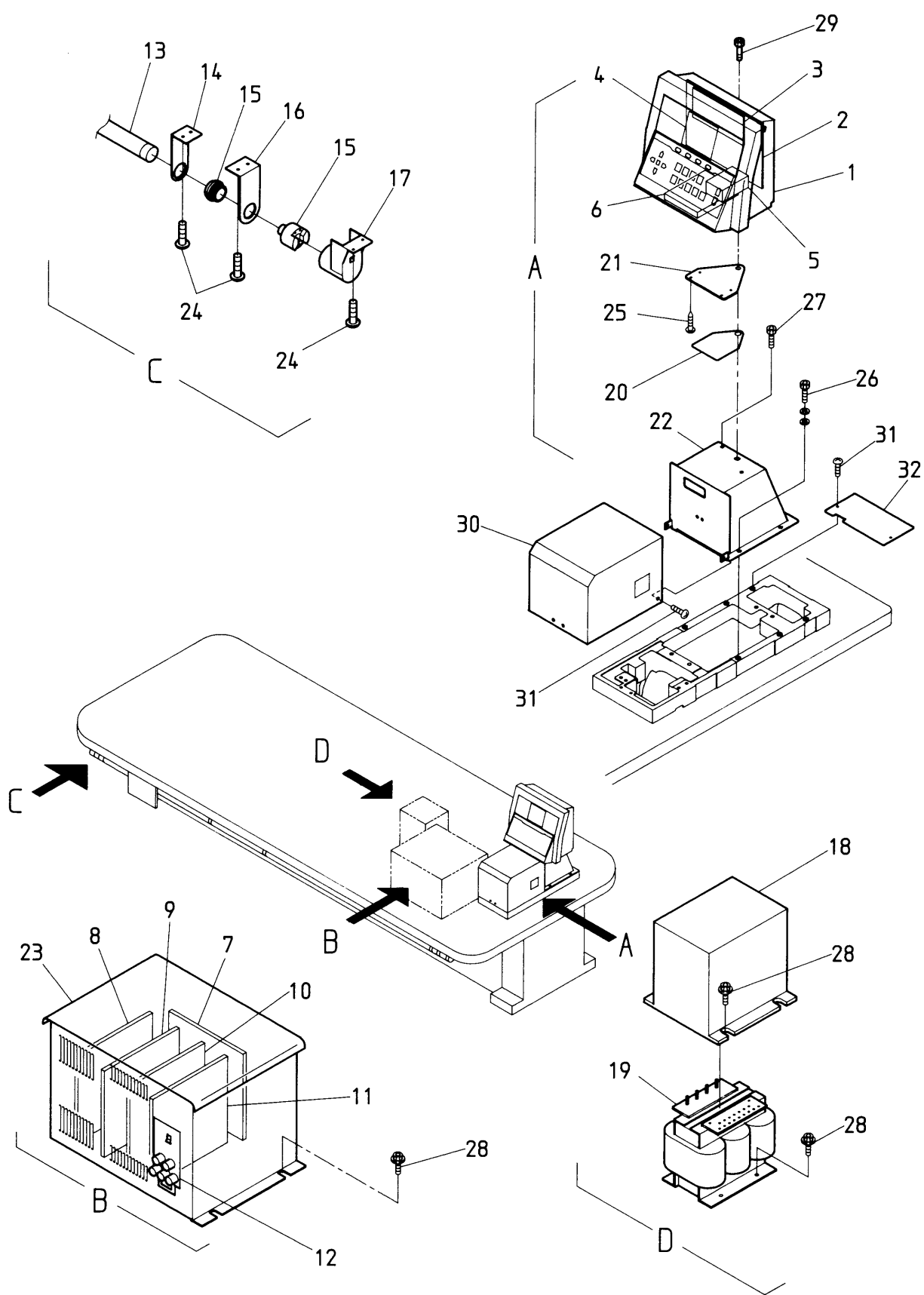
MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**

From the library of: Diamond Needle Corp



ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KV330030	Control unit base	1	
2	KS140040	Bearing bracket (Rear)	1	
3	KN490130	V-Timing belt shaft bearing housing	2	
4	HV480040	Pantograph driving pulley (Rear)	2	
5	HH481980	Clamping $\phi 19$	2	
6	KV470030	V-Pulse motor connecting shaft	1	
7	HH481931	Pulse motor coupling	2	
8	KV470020	V-Pulse motor bracket B	1	
9	HV480060	Pulse motor (5M)	1	
10	KV470010	V-Pulse motor bracket A	1	
11	KN490121	Bearing bracket	1	
12	A9011110	Needle bearing HK2016	2	
13	HH481970	Pulse motor connecting shaft collar	2	
14	A9020170	Taiming belt	1	
15	HP482940	Taiming belt set rack (5M)	2	
16	KN483450	V-Guide rail (L=660)	2	
17	KN480061	Rail base felt (100 $\times$ 38 $\times$ 6)	2	
18	A9012052	E-Ring ( $\phi 10$ )	1	
19	HV480050	Pantograph driving pulley (Front)	1	
20	HH481991	Timing pulley shaft	1	
21	HH482110	pulley shaft bolt cap	1	
22	KR480060	H · V-Guide front pulley bracket	1	
23	HP482950	Roler pin a'ssy A	4	
24	KV480170	V-Guide rail base (Stroke 480)	1	
25	KK480020	V-Guide rail base (Rear)	1	
26		Hex, socket set screw M5 $\times$ 8		
27		Hex, socket bolt M4 $\times$ 10		
28		Hex, socket bolt M5 $\times$ 18		
29		Hex, socket bolt M6 $\times$ 25		
30		Hex, socket bolt M5 $\times$ 12		
31		Hex, socket bolt M4 $\times$ 10		
32		Hex, nut M5		
33		Hex, socket bolt M3 $\times$ 6		
34		Hex, socket bolt M4 $\times$ 15		
35		Hex, bolt M4 $\times$ 35		
36		Hex, nut M4		
37		Hex, socket bolt M8 $\times$ 20		
38		Hex, socket bolt M8 $\times$ 25		
39		Hex, bolt M4 $\times$ 25		
40		Hex, nut M8		
41		Hex, socket bolt M4 $\times$ 18		
42		Hex, socket bolt M5 $\times$ 18		
43		Hex, socket bolt M6 $\times$ 22		
44		Disc spring 6 for hex, socket bolt		

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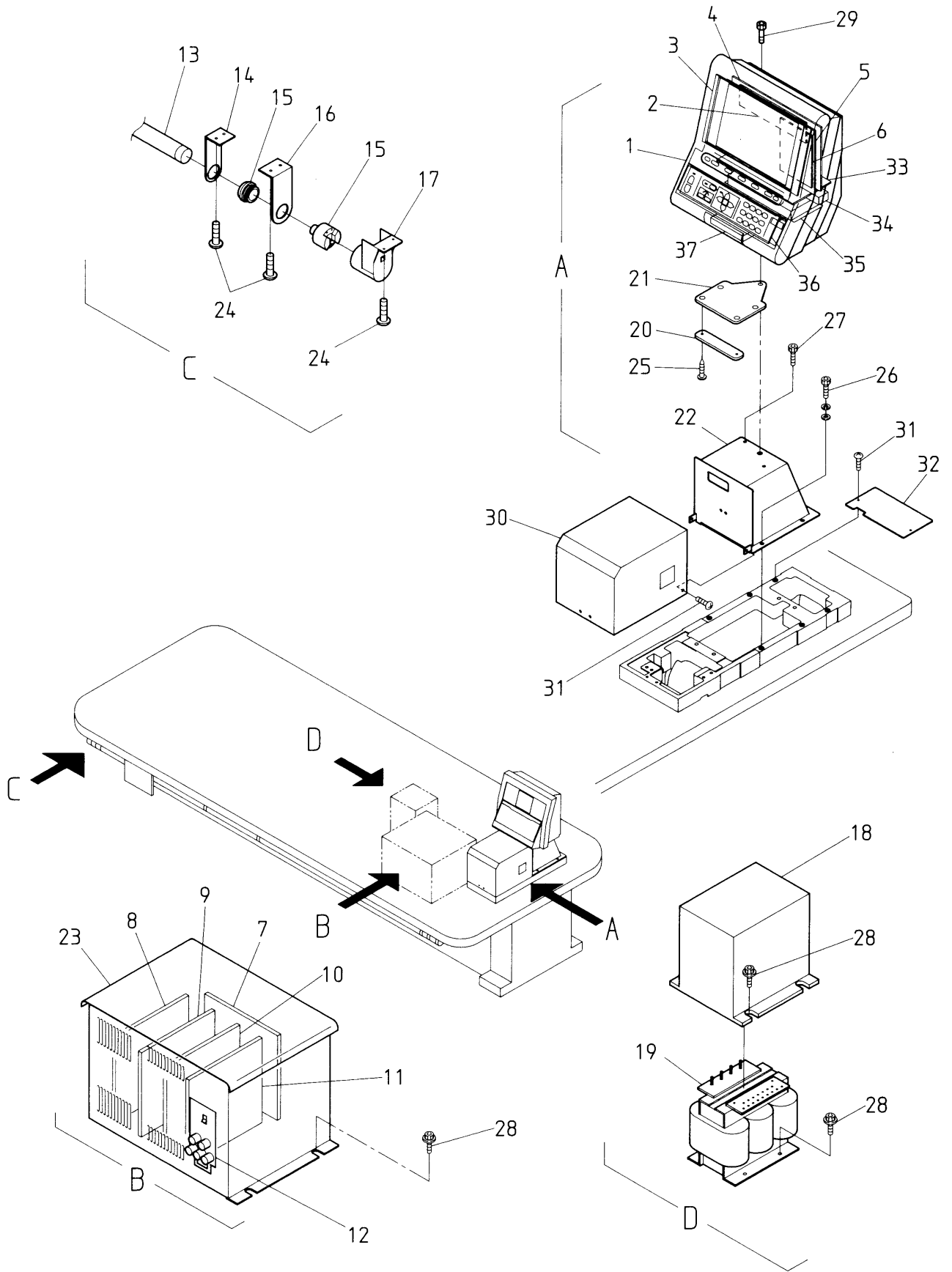


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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**

ITEM	LIST No.	DESCRIPTION	QTY	REMARK
1		Automat controller BENS	1	
2	EBY01250	CPU-Board	1	
3	EBY01240	Memory board	1	
4	EBY01260	LCD-Indication vessel	1	
5	EBY01270	Automat sources of electricity	1	
6	EBY01350	Floppy disk drive	1	
7	EBY01330	Back board	1	
8	EBY10310	Pulse motor drive unit	1	
9	EBY01340	Inverter unit	1	
10	EBY01300	CPU-Board	1	
11	EBY01320	Power board	1	
12	EBY01290	Control unit of sources of electricity	1	
13	KF530160	Bar switch	1	
14	KC530240	Bar switch bracket (Small)	5	
15	KF530120	Push button switch NS319 (Green)	1	
	KF530111	Push button switch NS319 (Red)	1	
16	KC530230	Bar switch bracket (Large)	4	
17	KF530150	Push button switch cap	1	
18	KC520020	Transformer cover set	1	
19		Automat transformer 3P	1	
		Automat transformer 1P	1	
20	HV330011	Automat bracket spacer	1	
21	HV330020	Automat bracket	1	
22	KV330010	Automat base	1	
23		Automat driver	1	
24		Tapping screw M4×20		
25		Pan screw M4×8		
26		Hex. socket bolt M6×10		
27		Hex. socket flange bolt M6×6		
28		Hex. socket flange bolt M6×16		
29		Hex. socket bolt M10×20		
30	KV330020	Turning cover a'ssy	1	
31		Truss screw M4×6		
32	KV330040	Unit base cover	1	

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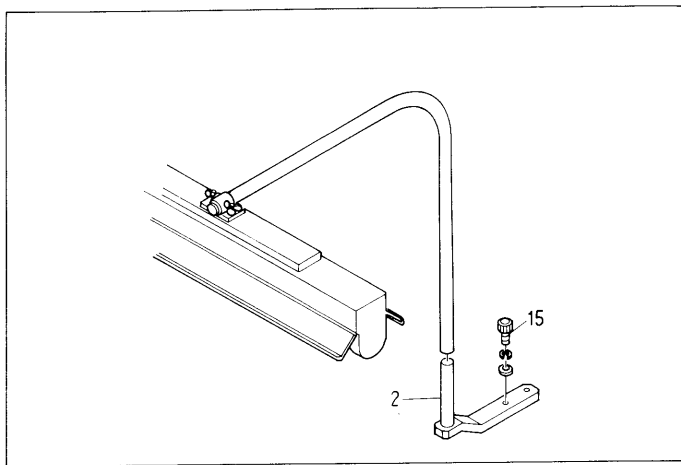


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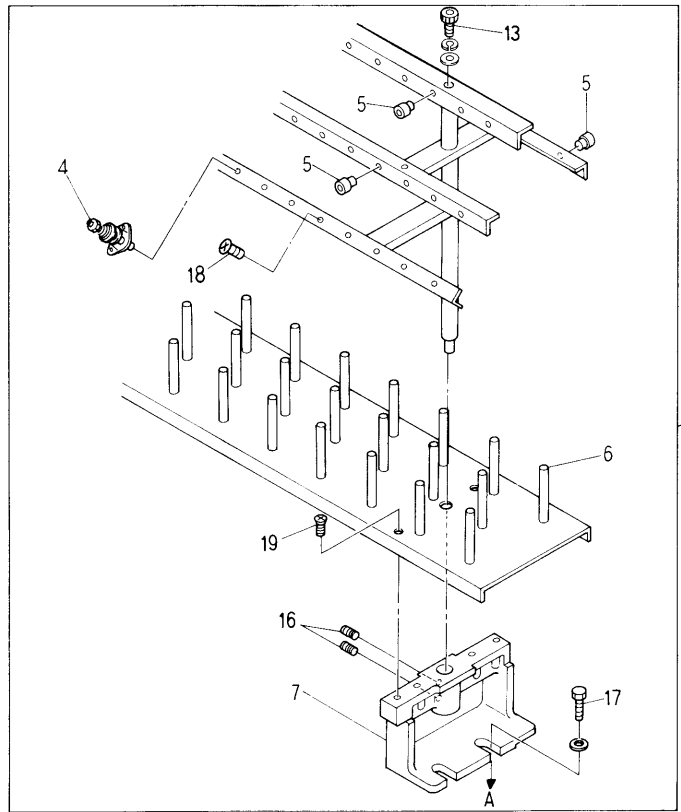
MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	EAY038A1	NR-Automat controller	1	
2	EBY01550	5480 690-thousand needle memory board BENR	1	
3	EBY01600	TFT-Color LCD LQ-10D02T BENR	1	
4	EBY01540	5421 I/O-Board BENR	1	
5	EBY01530	5411 CPU-Board BENR	1	
6	EBY01580	5470 Back right board BENR	1	
7	EBY01330	Buck-Board	1	
8	EBY10310	Pluse motor drive unit	1	
9	EBY01340	Inverter unit	1	
10	EBY01300	CPU-board	1	
11	EBY01320	Power-board	1	
12	EBY01290	Power control unit	1	
13	KF530160	Bar switch	1	
14	KC530240	Bar switch bracket (small)	5	
15	KF530120	Push button switch NS319 (Green)	1	
	KF530111	Push button switch NS319 (Red)	1	
16	KC530230	Bar switch bracket (large)	4	
17	KF530150	Push button switch cap	1	
18	KC520020	Transformer cover set	1	
19		Automat transformer 3 P	1	
		Automat transformer 1 P	1	
20	HV330010	Automat base	1	
21	HV330040	Automat bracket	1	
22	KV330010	Automat base	1	
23		Automat driver	1	
24		Tapping screw M4×20		
25		Tapping truss screw M3.5×8		
26		Hex. socket bolt M8×20		
27		Hex. socket flange bolt M6×20		
28		Hex. socket flange bolt M6×12		
29		Hex. socket bolt		
30	KV330020	Turning cover a'ssy	1	
31		Truss screw M4×6		
32	KV330040	Unit base cover	1	
33	EBY01560	5452 B/B board BENR	1	
	EBY01410	5452 B/B board BENR	1	
34		Inlet GL-2030HI	1	
35	EBY01590	Switching power supply MRW160 BENR	1	
36	EBY01570	5460 Switch relay board BENR	1	
37		FDD FD-05HG-261	1	

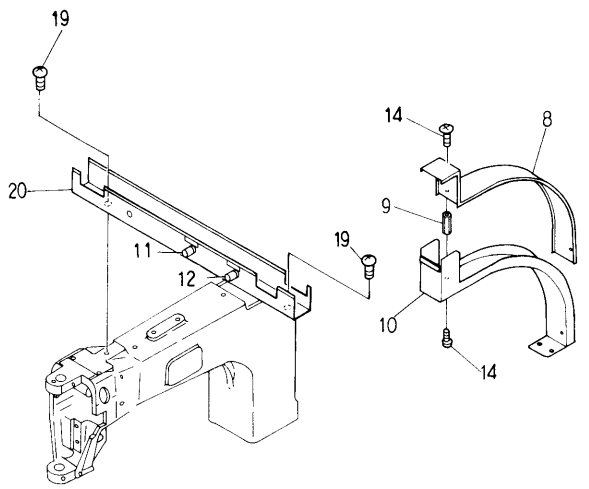
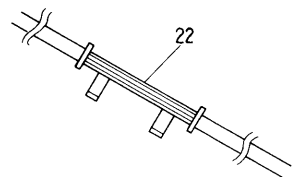
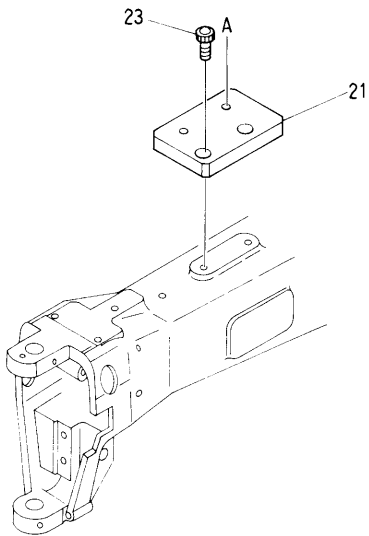
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1



3

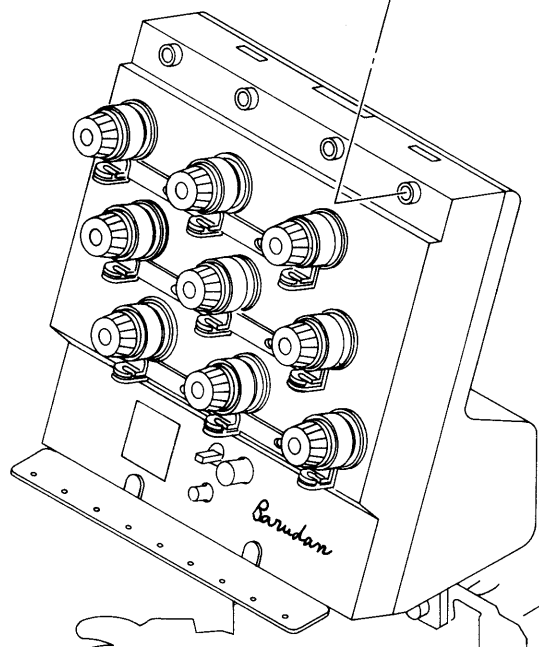
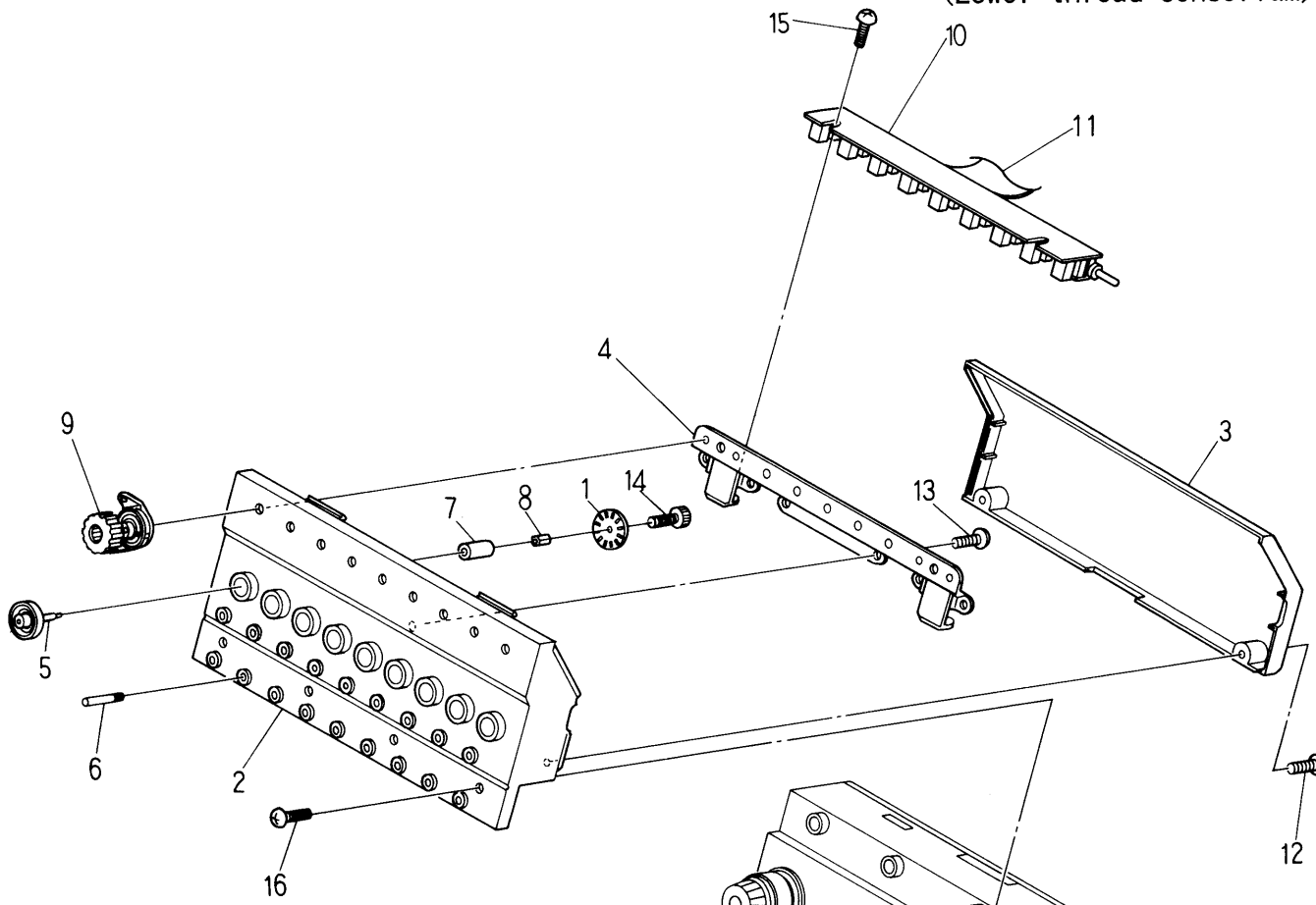


MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	HP 7 1 1 2 0 0	Fluorescent lamp set (LRP 4013T 15/16LG 100V)	1	For 12head and 15head
	HP 7 1 1 2 1 0	Fluorescent lamp set (LRP 4013T 25LG 200V)	1	For 12head and 15head
2	KG 7 1 0 1 6 1	Fluorescent lamp stand base	2	
3	1 J P 1 2 3 8 0	Spool holder (12T P=380 YS)	1	
	2 C H T 9 1 2 3 8 0	Spool holder (12T P=380 YS)	1	
	1 J P 1 5 3 8 0	Spool holder (15T P=380 YS)	1	
	2 C H T 9 1 5 3 8 0	Spool holder (15T P=380 YS)	1	
4	HP 2 4 1 4 3 0	Second tension unit complete (D=13.5)		
5	KF 2 4 0 9 0 0	Thread guide ceramic (For spool stand)		
6	HT 7 1 0 0 0 0	Spool holder pin	H × 9	
7	HP 7 1 0 7 9 1	Spool holder base	6	15...8
8	KR 5 1 0 1 3 0	Cable duct No.4 cover	1	
9	MT 5 1 0 7 9 1	Nut for cable duct	2	
1 0	KR 5 1 0 1 2 0	Cable duct No.4	1	
1 1	A 9 0 5 2 0 3 6	Push button switch SB-221N/0 OFF Red		
1 2	A 9 0 5 2 0 3 2	Push button switch SB-221N/0 ON Green		
1 3		Hex, socket bolt M8 × 45		
1 4		Pan screw M4 × 6		
1 5		Hex, socket bolt M6 × 15		
1 6		Hex, socket set screw M5 × 8		
1 7		Hex, bolt M8 × 20		
1 8		Flush screw M5 × 6		
1 9		Flush screw M4 × 12		
2 0	1 U K S 1 2 3 8 0	Duct cable (BENSME-12)	1	
	1 U K S 1 5 3 8 0	Duct cable (BENSME-15)	1	
2 1	KR 3 3 0 1 6 0	Spool holder spacer		
2 2	2 D K V 1 2 3 8 0	Flat cable NS-12 P380	1	Choice and use
	2 D K V 1 5 3 8 0	Flat cable NS-15 P380	1	Choice and use
2 3		Hex, socket bolt		

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(Lower thread sensorium)

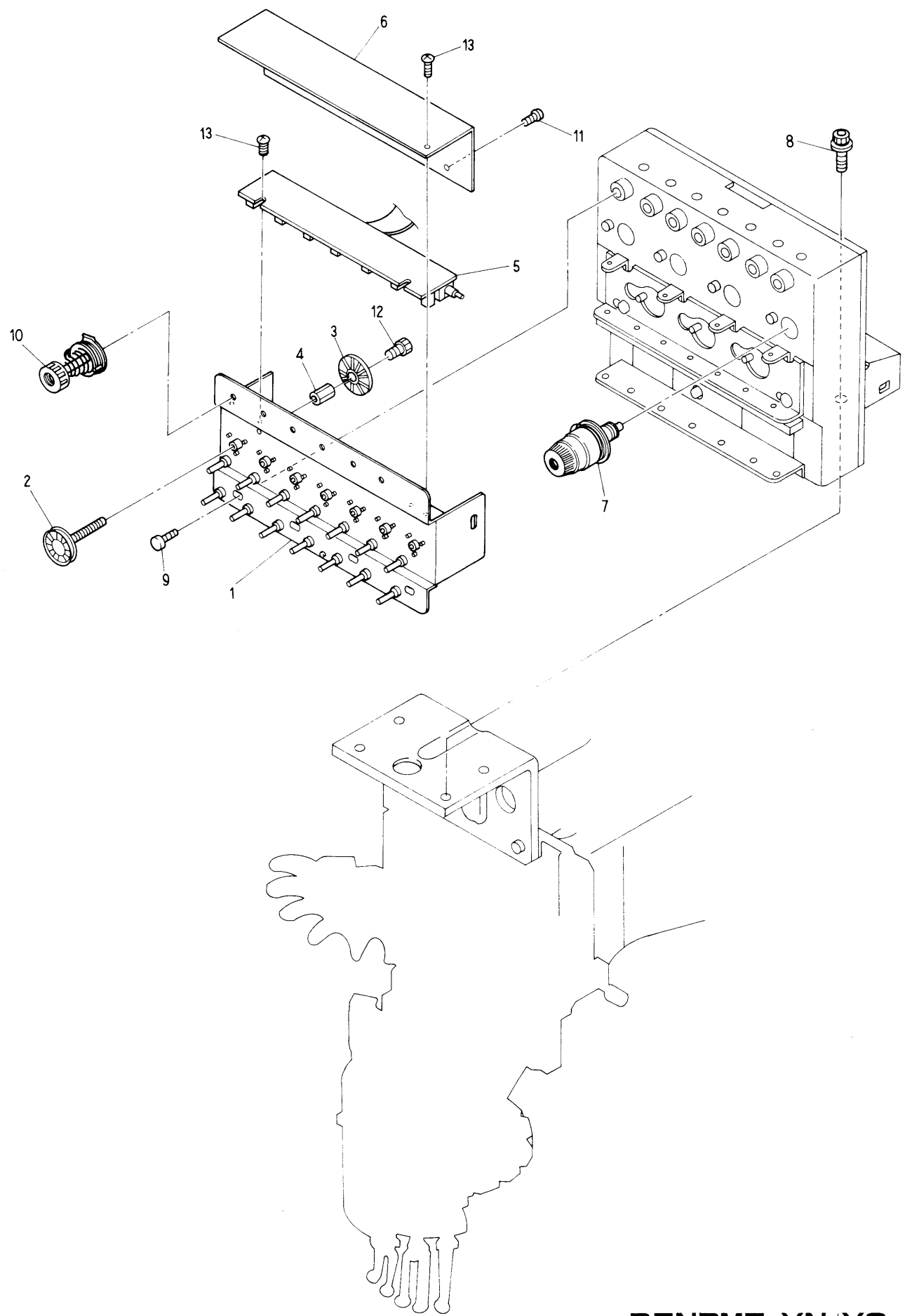


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MODEL BENRME-YN/YS  
BENSME-YN/YS







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MODEL **BENRME-YN/YS**  
**BENSME-YN/YS**





L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
1AKS123804800	3	2	A9012052	47	6
1AKS153804800	3	2	A9012052	49	6
1BKS123804800	3	1	A9012052	51	10
1BKS153804800	3	1	A9012052	53	18
1FKS123804800	41	1	A9012053	17	31
1FKS153804800	41	1	A9012056	29	12
1J P 1 2 3 8 0	59	3	A9012064	43	22
1J P 1 5 3 8 0	59	3	A9012114	13	27
1KKK123804800	3	3	A9012137	35	7
1KKK153804800	3	3	A9012143	35	5
1PKV12380	9	27	A9012164	15	29
1PKV15380	9	27	A9012164	43	24
1UKS12380	59	20	A9012186	3	24
1UKS15380	59	20	A9012190	19	4
1WKK123804800	41	2	A9012208	33	20
1WKK153804800	41	2	A9012231	7	8
2CHT912380	59	3	A9012250	7	6
2CHT915380	59	3	A9012255	7	11
2DKV12380	59	22	A9012259	3	14
2DKV15380	59	22	A9012263	45	8
A9010017	9	5	A9012264	43	27
A9010036	43	17	A9012266	5	8
A9011017	37	8	A9012320	37	18
A9011021	15	7	A9012324	63	9
A9011021	17	21	A9013045	27	16
A9011022	17	23	A9013066	13	21
A9011023	17	20	A9014051	21	19
A9011107	7	7	A9014055	17	19
A9011110	47	9	A9014063	9	38
A9011110	49	9	A9020170	49	20
A9011110	53	12	A9020170	53	14
A9011115	19	9	A9020200	37	13
A9011119	37	34	A9052005	31	12
A9011131	43	23	A9052024	49	15
A9011132	43	25	A9052024	51	34
A9011152	15	6	A9052028	27	10
A9012001	33	13	A9052030	49	25
A9012002	31	5	A9052030	51	20
A9012002	35	8	A9052031	49	16
A9012007	9	34	A9052031	51	12
A9012007	11	23	A9052032	59	12
A9012007	13	26	A9052036	59	11
A9012027	11	16	A9053070	37	31
A9012032	3	23	A9056008	13	2
A9012051	21	20	A9056013	29	19

L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
A 9 0 5 6 0 1 8	2 7	1	H B 2 3 0 3 8 3	1 9	5
A 9 0 5 6 0 2 0	2 1	6	H B 2 3 0 3 9 0	1 9	3
A 9 0 6 5 0 2 6	3 1	1 8	H B 2 3 0 4 0 1	1 9	1
A 9 0 6 5 0 3 5	3 3	2 7	H B 2 3 0 4 1 4	1 9	1 2
E A Y 0 3 8 A 1	5 7	1	H B 2 3 0 4 2 0	1 9	1 1
E B Y 0 0 9 1 0	6 3	5	H B 2 3 0 5 6 0	2 1	7
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E B Y 0 1 4 1 0	5 7	3 3	H H 4 8 1 9 3 1	4 7	1 6
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E B Y 0 1 5 4 0	5 7	4	H H 4 8 1 9 7 0	4 7	1 2
E B Y 0 1 5 5 0	5 7	2	H H 4 8 1 9 7 0	4 9	1 2
E B Y 0 1 5 6 0	5 7	3 3	H H 4 8 1 9 7 0	5 3	1 3
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E B Y 0 1 5 8 0	5 7	6	H H 4 8 1 9 8 0	4 9	1 1
E B Y 0 1 5 9 0	5 7	3 5	H H 4 8 1 9 8 0	5 3	5
E B Y 0 1 6 0 0	5 7	3	H H 4 8 1 9 9 1	4 7	3
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E B Y C 1 1 5 0	2 5	1 2	H H 4 8 1 9 9 1	5 3	2 0
F R 6 0 0 5 2 8	4 3	2	H H 4 8 2 1 1 0	4 7	4
F R 6 0 0 5 2 9	4 3	3	H H 4 8 2 1 1 0	4 9	4
F R 9 2 3 0 0 2 9 0 A	4 3	1	H H 4 8 2 1 1 0	5 1	8
H B 2 3 0 1 4 0	1 7	2 2	H H 4 8 2 1 1 0	5 3	2 1
H B 2 3 0 1 6 0	1 5	2 0	H P 2 3 1 3 9 0	9	1 3
H B 2 3 0 1 7 0	2 1	3	H P 2 4 1 1 1 2	2 5	6
H B 2 3 0 2 7 0	1 5	2 1	H P 2 4 1 1 2 2	2 5	6
H B 2 3 0 2 9 1	1 5	4	H P 2 4 1 1 5 0	2 5	2
H B 2 3 0 3 7 2	1 9	1 0	H P 2 4 1 1 6 0	2 5	7

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

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HT 2 7 0 1 1 0		2 7		1 4	KB 2 4 0 0 6 0		2 5		1 6
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HT 2 7 0 1 8 0		1 3		1 6	KB 2 5 0 0 2 0		2 3		2 1
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HT 2 7 0 6 4 0		2 9		2 0	KB 2 5 0 0 3 0		2 3		2 2
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HV 3 3 0 0 1 1		5 5		2 0	KB 2 5 0 0 5 0		2 5		2 1
HV 3 3 0 0 2 0		5 5		2 1	KB 2 5 0 0 6 0		2 3		2 6
HV 3 3 0 0 4 0		5 7		2 1	KB 2 5 0 0 6 0		2 5		2 2
HV 4 8 0 0 1 0		4 7		1 4	KB 2 7 0 0 2 0		1 3		2 5
HV 4 8 0 0 2 0		4 7		1 8	KC 1 1 0 9 1 0		3		9
HV 4 8 0 0 4 0		4 7		1 0	KC 2 2 0 2 1 0		1 1		1 9
HV 4 8 0 0 4 0		4 9		1 0	KC 2 2 0 6 5 0		1 1		1 5
HV 4 8 0 0 4 0		5 3		4	KC 2 2 0 6 5 0		1 3		2 3
HV 4 8 0 0 5 0		4 7		5	KC 2 5 0 4 7 1		1 1		1 7
HV 4 8 0 0 5 0		4 9		5	KC 2 5 0 4 8 2		1 1		1 8
HV 4 8 0 0 5 0		5 1		9	KC 2 5 1 3 3 0		9		4 2
HV 4 8 0 0 5 0		5 3		1 9	KC 2 7 0 1 0 1		2 9		1 8
HV 4 8 0 0 6 0		4 7		1 5	KC 2 7 0 2 7 1		2 9		6
HV 4 8 0 0 6 0		5 3		9	KC 2 7 0 2 9 2		2 9		7
HV 4 8 0 1 1 0 1 0 3 5		4 7		1 9	KC 2 7 0 9 7 0		1 3		2 2
HV 4 8 0 1 1 0 1 3 8 0		5 1		1 4	KC 2 7 0 9 8 0		1 3		1 9
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KB 2 3 0 0 5 0		9		3 3	KC 2 7 1 1 2 0		1 3		2 8
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KB 2 3 0 0 8 0		1 9		6	KC 2 7 1 1 5 1		3 1		1 1
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KB 2 3 0 1 1 0		1 5		9	KC 2 7 1 4 4 0		3 1		1
KB 2 3 0 1 7 0		2 1		3	KC 2 7 1 9 4 0		1 3		7
KB 2 4 0 0 1 0		1 5		1 4	KC 2 7 1 9 6 0		1 3		3
KB 2 4 0 0 2 1		1 5		3	KC 3 1 2 8 9 0		3 9		7
KB 2 4 0 0 3 0		2 1		2	KC 3 2 0 5 9 0		3 9		5
KB 2 4 0 0 4 0		2 1		1 6	KC 3 2 0 8 2 0		3 7		3 0

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L I S T No.	PAGE No.	ITEM	L I S T No.	PAGE No.	ITEM
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K C 3 3 0 1 8 0	3 1	6	K F 2 3 0 6 7 0	1 7	1 2
K C 3 3 0 1 8 0	3 3	7	K F 2 3 0 6 7 0	1 9	2 0
K C 3 3 0 1 8 0	3 3	1 0	K F 2 3 0 9 1 0	1 7	1 0
K C 3 3 0 1 9 0	3 3	8	K F 2 4 0 9 0 0	5 9	5
K C 3 3 0 2 1 0	3 3	2 5	K F 2 5 0 9 0 0	1 1	2 1
K C 3 3 0 2 3 0	3 5	6	K F 3 3 0 3 8 1	1 7	2 7
K C 3 3 0 2 6 0	3 5	1 2	K F 3 3 0 3 8 1	1 9	1 7
K C 3 3 0 2 8 0	3 3	2	K F 5 3 0 1 1 1	5 5	1 5
K C 3 3 0 2 9 0	3 5	3	K F 5 3 0 1 1 1	5 7	1 5
K C 3 3 0 4 1 0	1 7	2 5	K F 5 3 0 1 2 0	5 5	1 5
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K C 3 3 0 4 1 0	3 1	2	K F 5 3 0 1 5 0	5 5	1 7
K C 3 3 0 5 1 0	3 1	3	K F 5 3 0 1 5 0	5 7	1 7
K C 3 3 0 5 1 0	3 5	9	K F 5 3 0 1 6 0	5 5	1 3
K C 3 3 0 6 1 0	3 3	2 1	K F 5 3 0 1 6 0	5 7	1 3
K C 3 3 0 8 5 0	3 5	1 1	K G 2 3 0 6 1 0	3 5	1
K C 3 3 0 9 1 0	3 5	1 6	K G 2 5 0 0 1 0	2 5	2 0
K C 5 2 0 0 2 0	5 5	1 8	K G 3 3 0 2 2 0	3 3	1 4
K C 5 2 0 0 2 0	5 7	1 8	K G 7 1 0 1 6 1	5 9	2
K C 5 3 0 2 3 0	5 5	1 6	K K 1 4 0 0 1 0	7	2
K C 5 3 0 2 3 0	5 7	1 6	K K 1 4 0 0 2 0	3	1 1
K C 5 3 0 2 4 0	5 7	1 4	K K 1 4 0 0 3 0	7	4
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