

Barudan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

MODEL **BENS-YN**

PARTS LIST

BARUDAN CO., LTD.

ADDRESS 906 JOSUIJI
ICHINOMIYA-CITY · AICHI-PREF ·
JAPAN

TEL. <0586>76-1137

FAX. <0586>77-1499

TELEX 4573268 BARUNA J

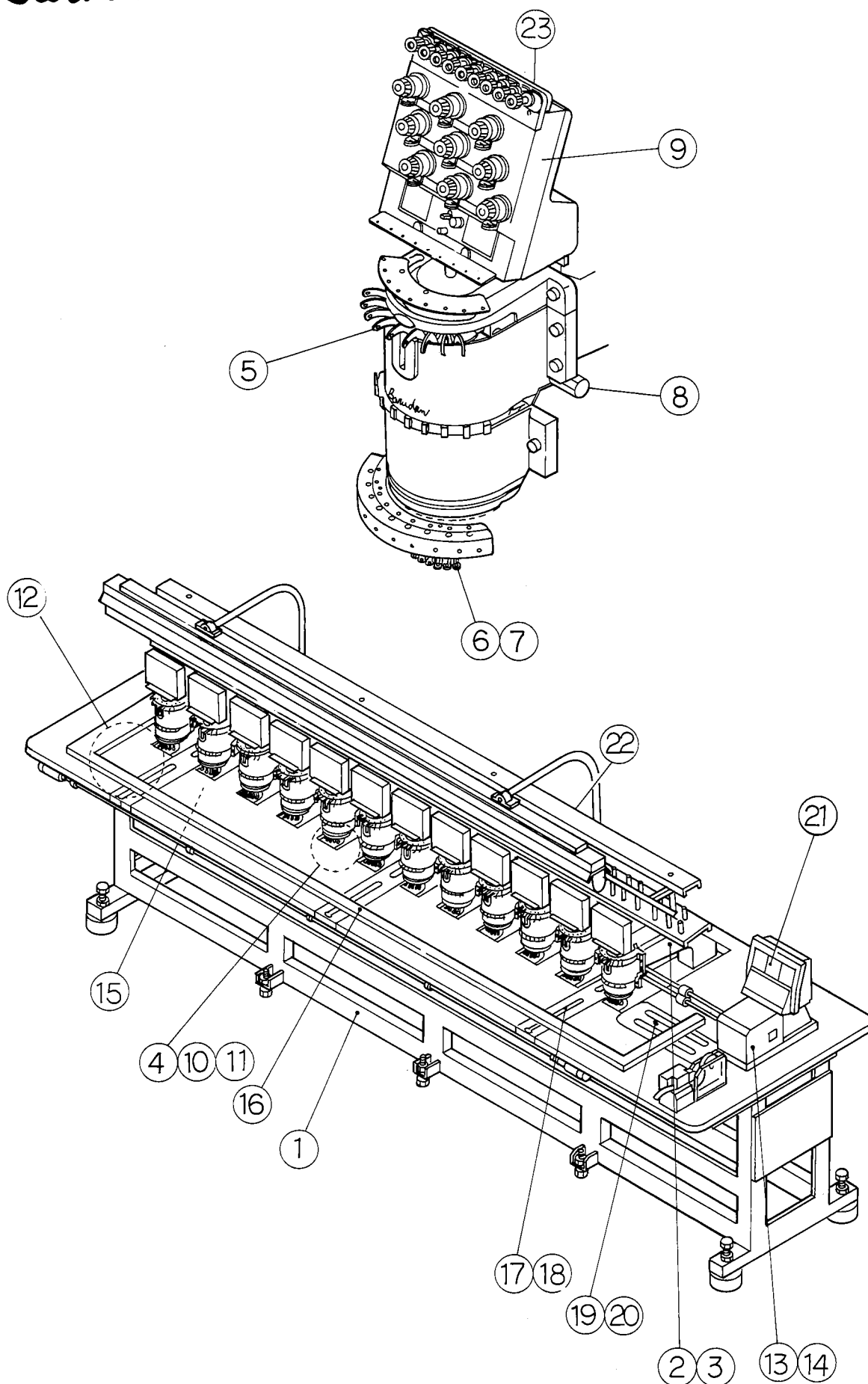
CABLE BARUNA ICHINOMIYA

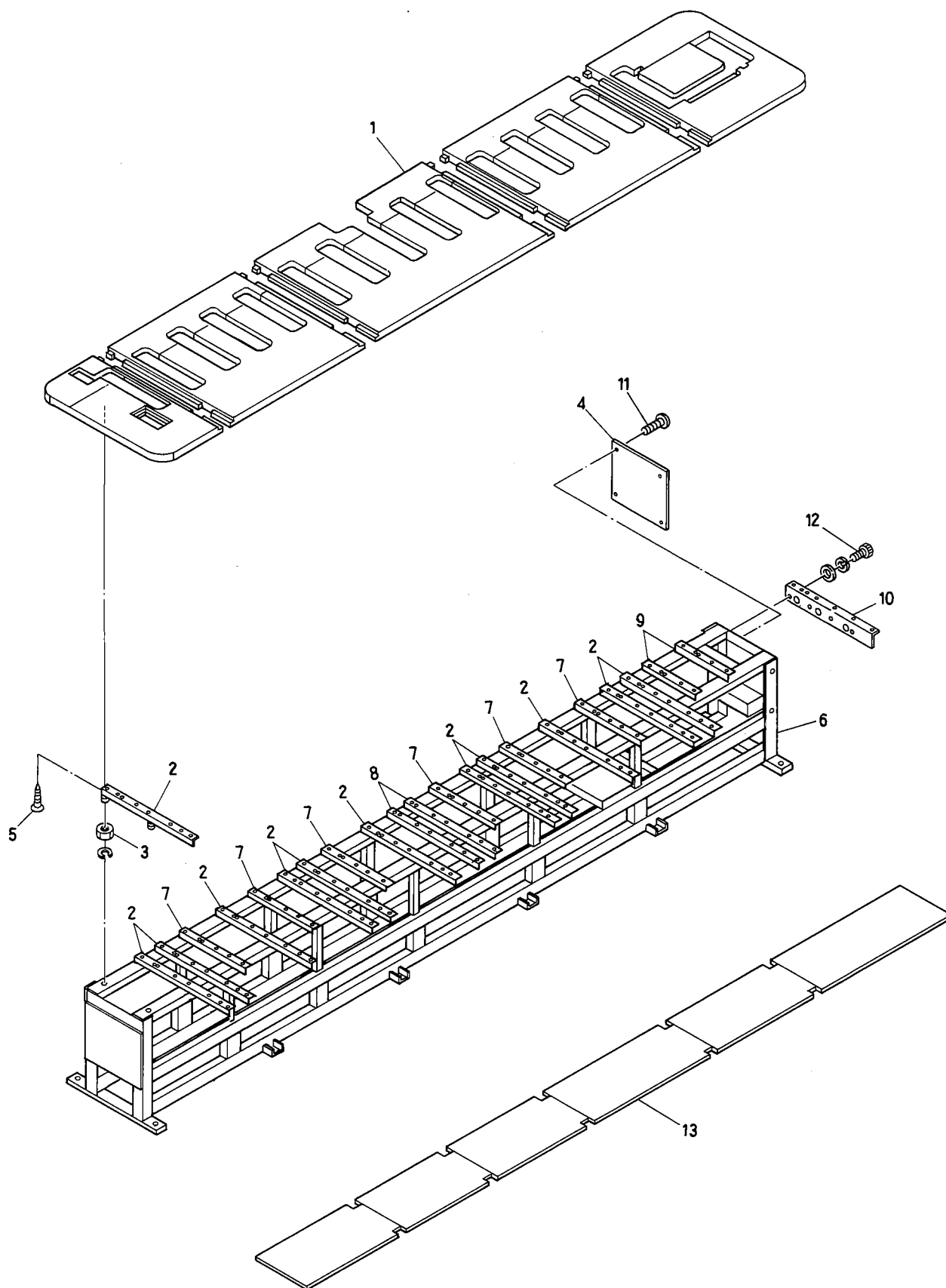
BENS-YN

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE PARTS LIST

CONTENTS

ITEM No.	Page No.
Machine layout(BENS-YN)	1
① Table・Frame	2
② Sewing head a'ssy	4
③ Bed a'ssy	6
④ Automatic thread cutting mechanism I (Thread cutting section)	8
⑤ Take up lever a'ssy	1 0
⑥ Needle bar mechanism I	1 2
⑦ Needle bar mechanism II	1 4
⑧ Jump mechanism	1 6
⑨ Thread guide mechanism	1 8
⑩ Automatic thread cutting mechanism II (Thread away section)	2 0
⑪ Automatic thread cutting mechanism III (Thread support section)	2 2
⑫ Automatic thread cutting mechanism IV (Thread cutting drive section)	2 4
⑬ Color change mechanism I	2 6
⑭ Color change mechanism II	2 8
⑮ Drive mechanism	3 0
⑯ Connecting shaft mechanism	3 2
⑰ Pantograph drive mechanism I (V・H-Direction)	3 4
⑱ Pantograph drive mechanism II (H-Direction)	3 6
⑲ Pantograph drive mechanism III (H-Direction・Drive)	3 8
⑳ Pantograph drive mechanism IV (V-Direction・Drive)	4 0
㉑ Pantograph drive mechanism V (V-Direction・Guide rail base relation)	4 2
㉒ Control system	4 4
㉓ Option	4 6
㉔ Thread guide mechanism (Lower thread sensorium)	4 8
INDEX	5 0



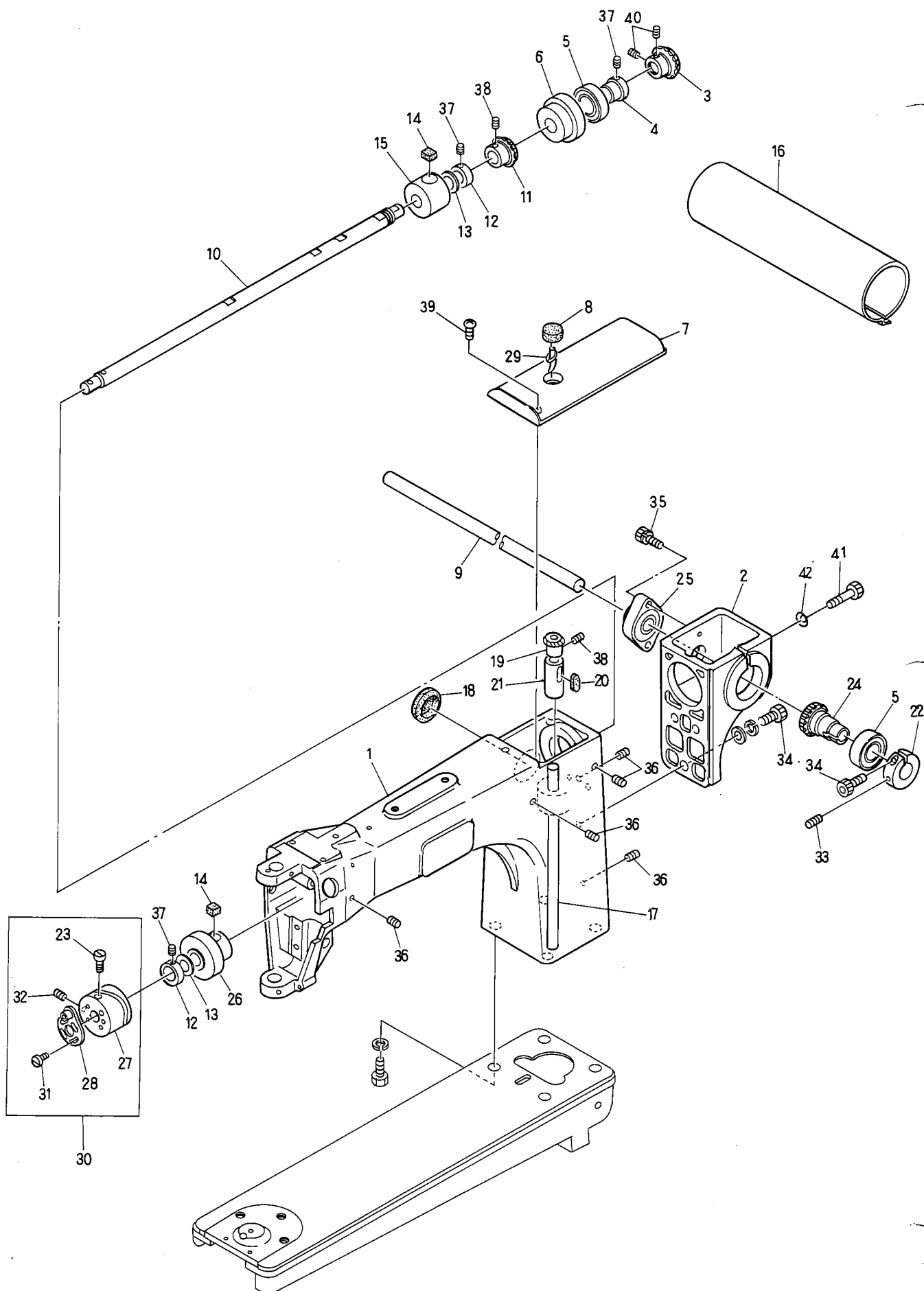


(※=For 15head)

— 3 —

Barudan

② Sewing head assembly

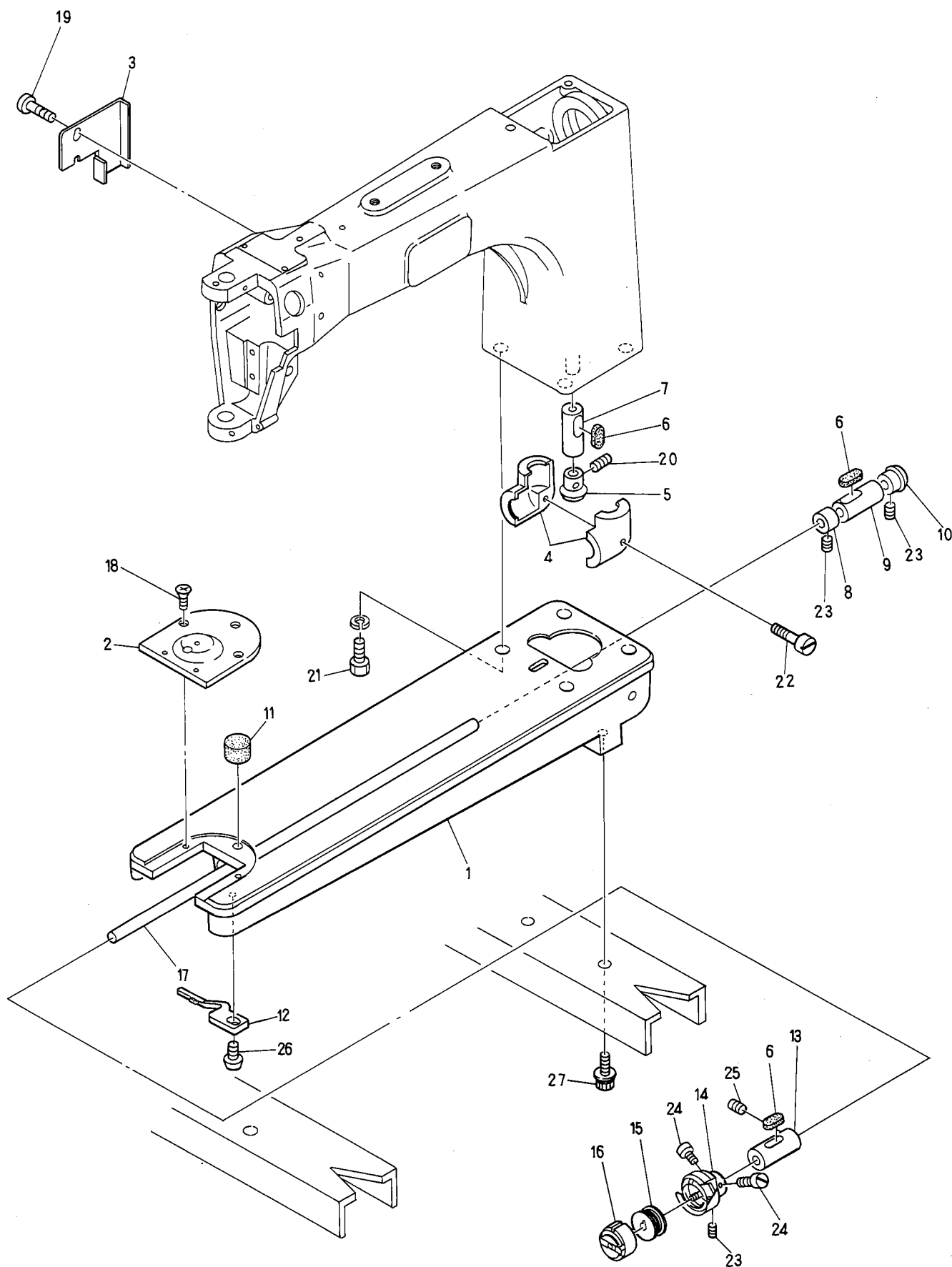


MODEL BENS-YN

② Sewing head a'ssy

(※=For 15head, H=Head Q' Ty)

ITEM	LIST No.	DESCRIPTION	Q'TY	REMARK
1	KB210160	Arm	H×1	
2	KL210140	Arm gear case	H×1	
3	KL220100	Top shaft (Spiral bevel M1.5-25R)	H×1	
4	KL220090	Top shaft bearing collar (Rear)	H×1	
5	A9010017	Bearing (6004ZZ)	H×2	
6	KL220040	Top shaft bearing case (Rear)	H×1	
7	KL250040	Arm top cover	H×1	
8	KL220150	Oil felt D	H×1	
9	KV310130	Top shaft connecting shaft (L=5700)		
10	KL220000	Top shaft	H×1	
11	KF220130	Bevel gear (Top shaft)	H×1	
12	KL220080	Top shaft collar	H×2	
13	HP231390	Thrust washer (Top shaft gear)	H×2	
14	KL220130	Oil felt B	H×2	
15	KL220030	Top felt metal (Middle)	H×1	
16		Shaft cover set	1SET	※
17	KL220010	Vertical shaft	H×1	
18	A9014063	Grommet C-30-SG-36A	H×1	
19	KF220460	Bevel gear (Vertical shaft upper)	H×1	
20	KL220140	Oil felt C	H×1	
21	KL220050	Vertical metal (Upper)	H×1	
22	KL320020	Connecting gear clamp φ19	H×1	
3	KF230420	Take up lever cam set screw	H×1	
24	KL320000	Connecting gear (Spiral bevel M1.5-25L)	H×1	
25	HP321140	Top connecting shaft bearing unit	H×1	
26	KL220022	Top shaft metal (Front)	H×1	
27	KB230030	Take up lever cam K6	H×1	For small bobbin
	KB230040	Take up lever cam L1	H×1	For middle bobbin
28	KB230050	90° Crank	H×1	
29	KC251330	Oil core L=75	H×1	
30	KB230011	Take up lever cam K6 90°	H×1	For small bobbin
	KB230021	Take up lever cam L1 90°	H×1	For middle bobbin
31	A9012007	Screw (SM11/64 40×10)	H×1	
32		Screw (SM11/64 28×10) Lock	H×1	
33		Hex. socket set screw M6×10		
34		Hex. socket bolt M6×25		
35		Hex. socket bolt M6×35 (With spring washer)		
36		Hex. socket set screw M6×8		
37		Hex. socke set screw M6×6		
38		Screw (SM1/4 山40×4)		
39		Truss screw M4×10		
0		Hex. socke set screw M6×6 (With adhesion)		
41		Hex. socket bolt M6×60		
42		Disc spring M6		



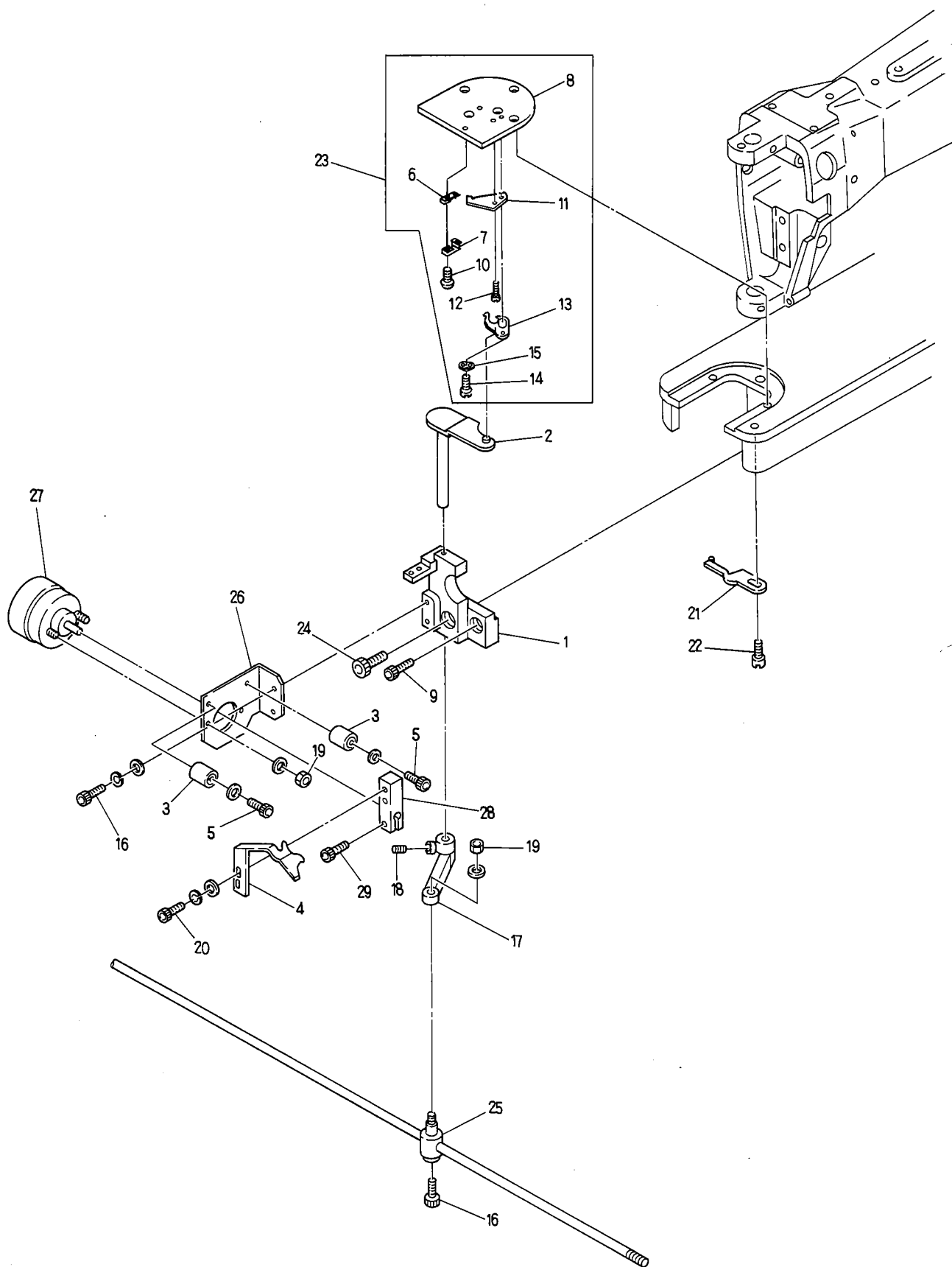
③ B e d a ' s s y

(H=Head Q' TY)

[illegible]

Barudan

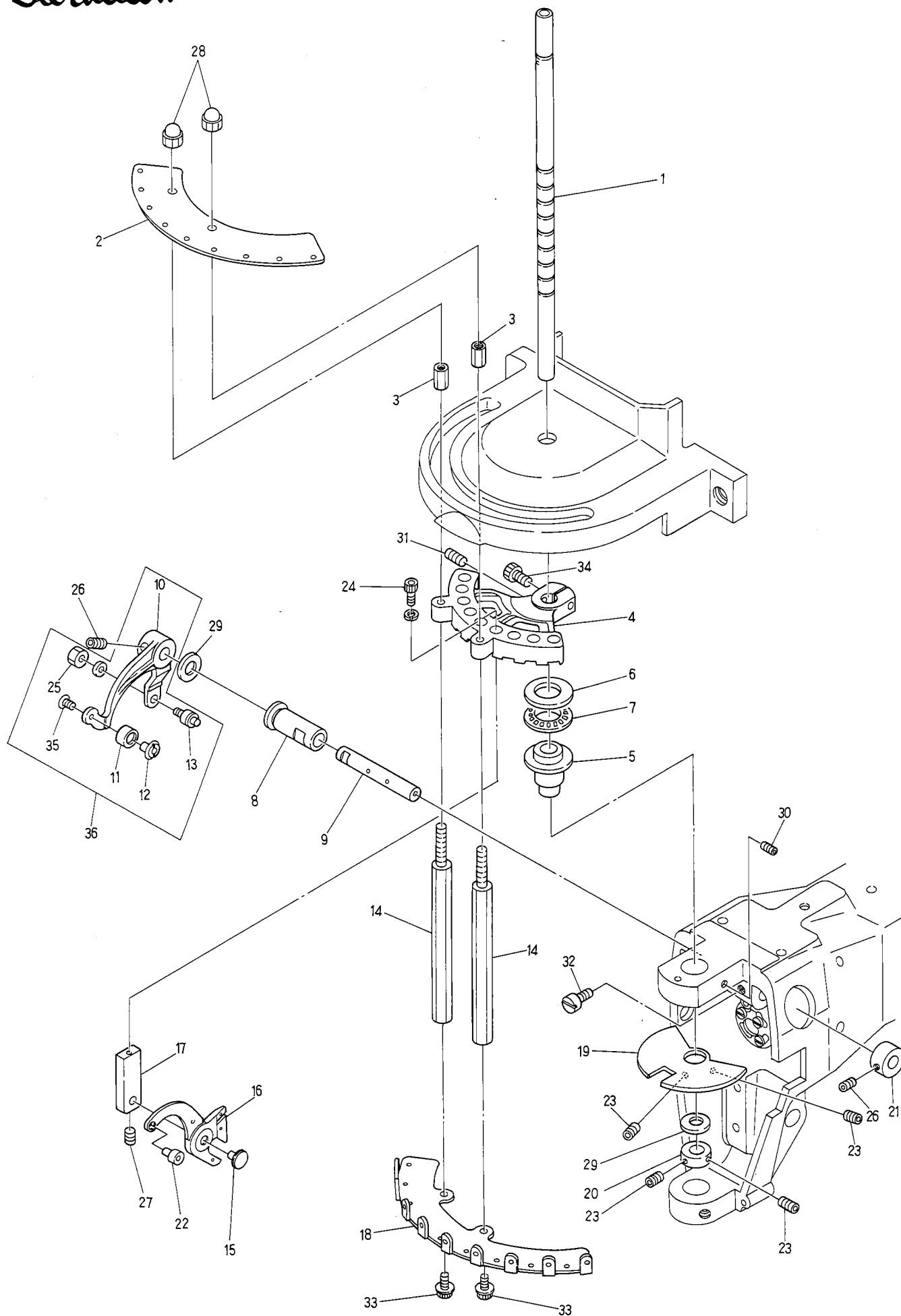
④ Automatic thread cutting mechanism I
(Thread cutting section)



MODEL BENS-YN

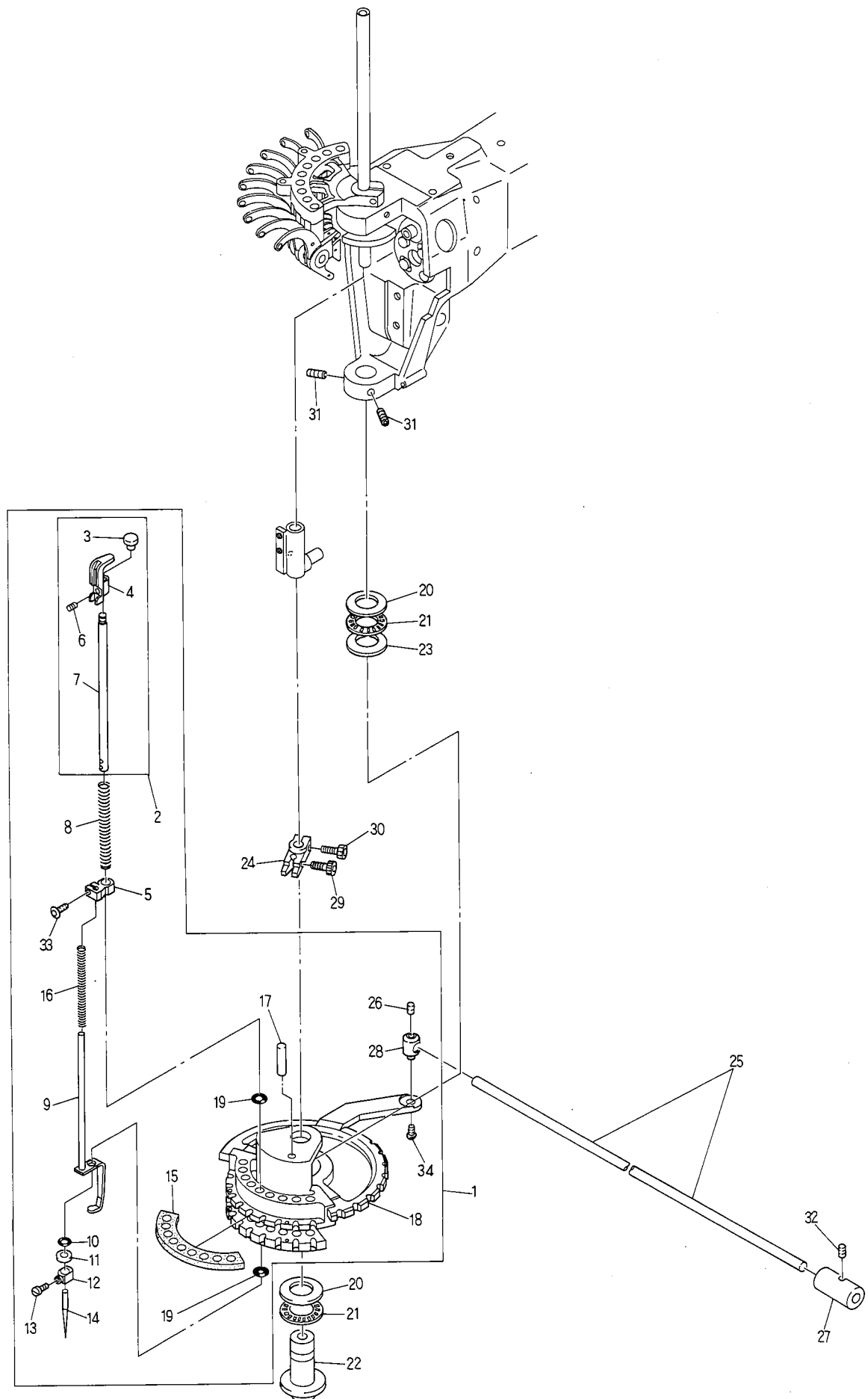
(H=Head Q' TY)

(IE)1.100



(H=Head Q' TY)

— 11 —



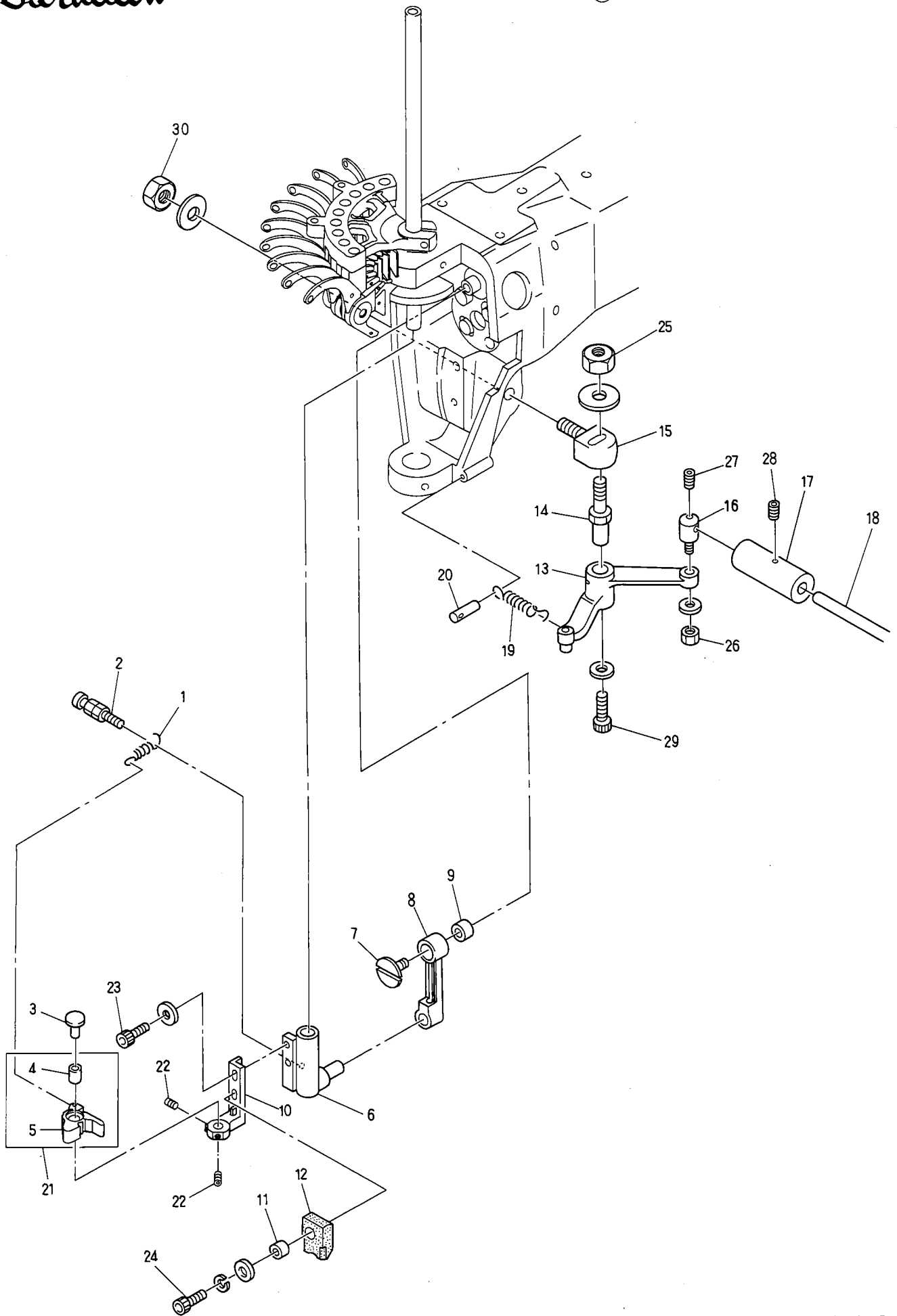
⑥ Needle bar mechanism I

(H=Head Q' TY)

[illegible]

Barudan

⑦ Needle bar mechanism II

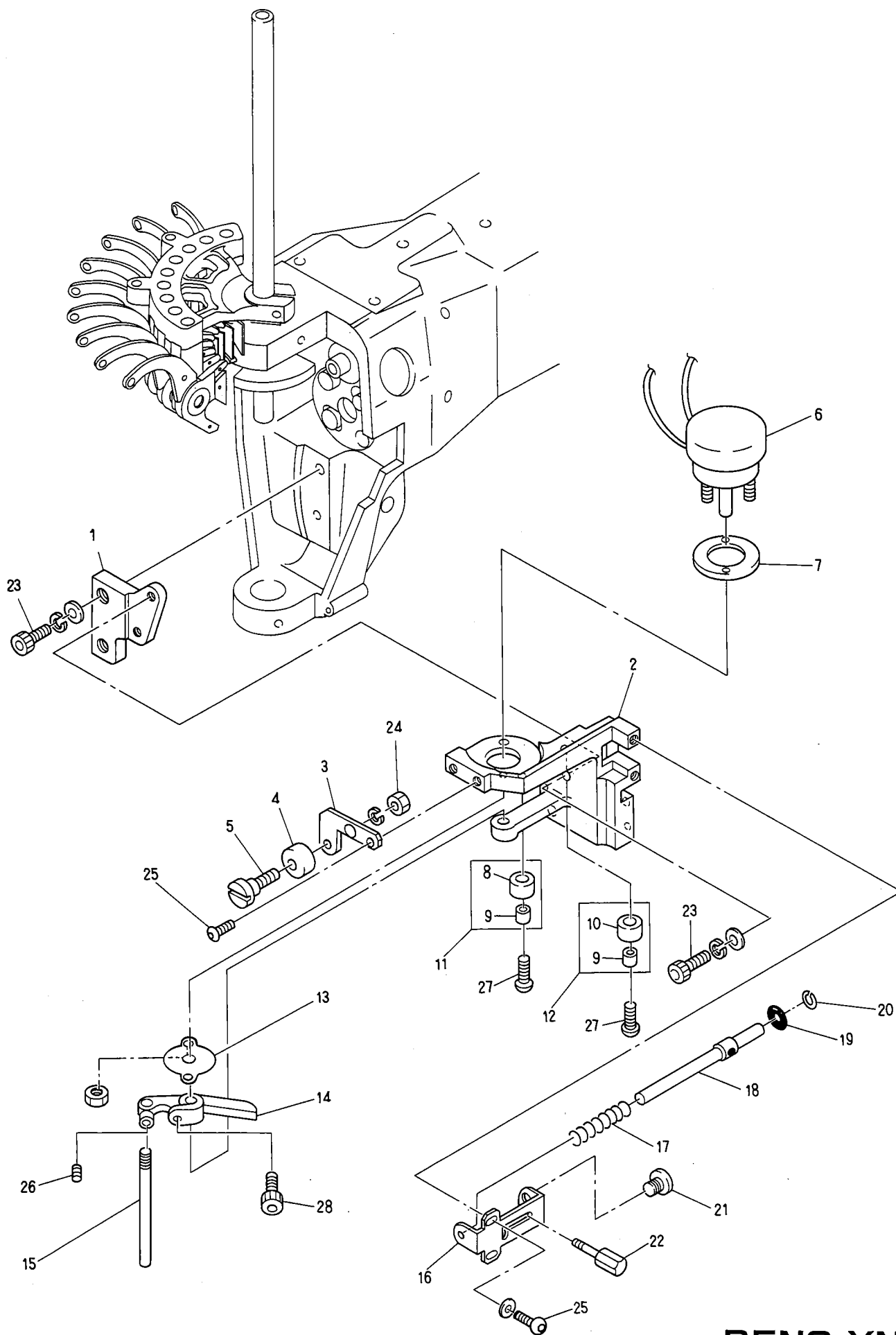


MODEL BENS-YN

⑦ Needle bar mechanism II

(H=Head Q' TY)

[illegible]



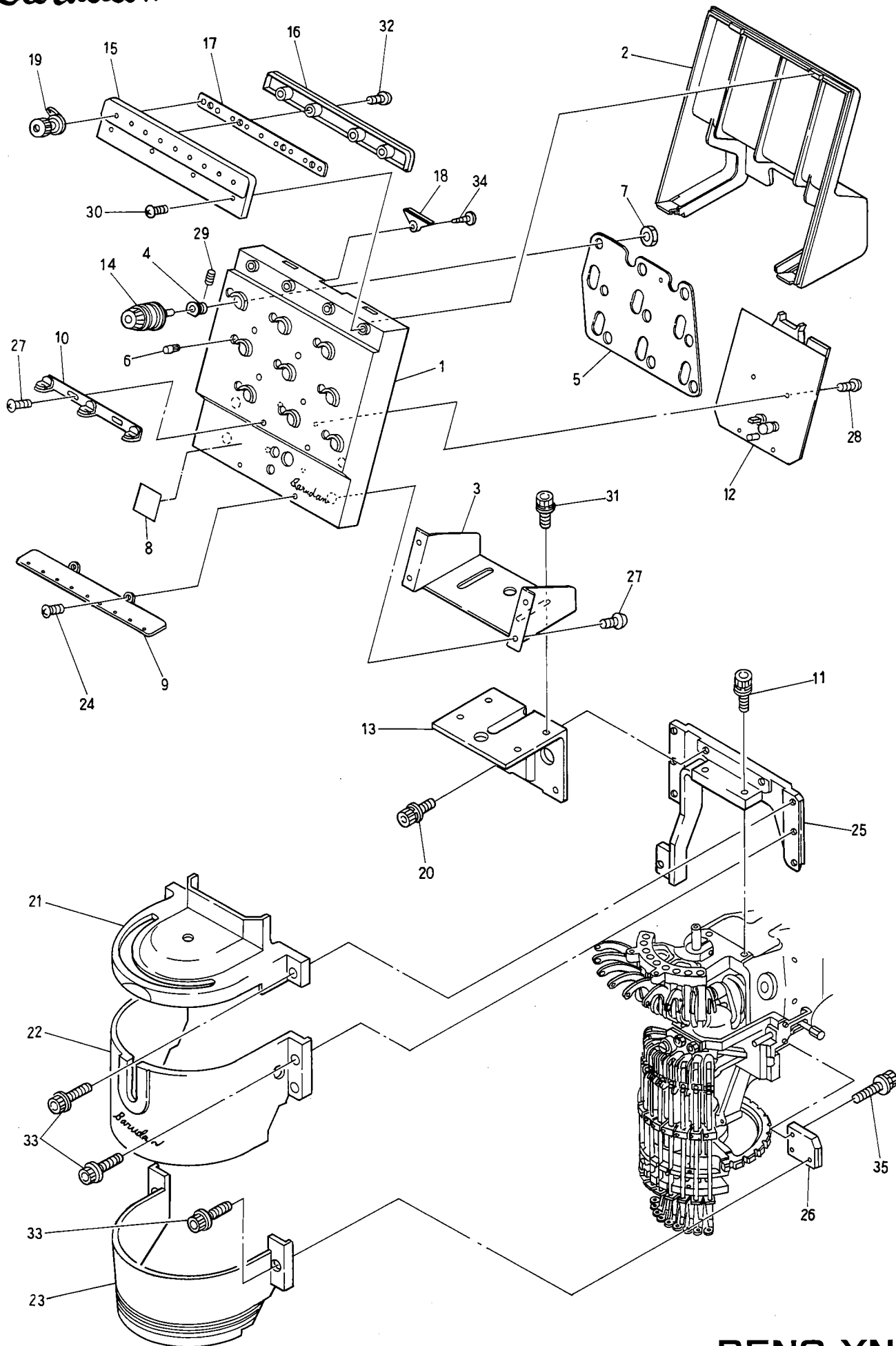
⑧ Jump mechanism

(H=Head Q' TY)

[illegible]

Barudan

⑨ Thread guide mechanism



MODEL BENS-YN

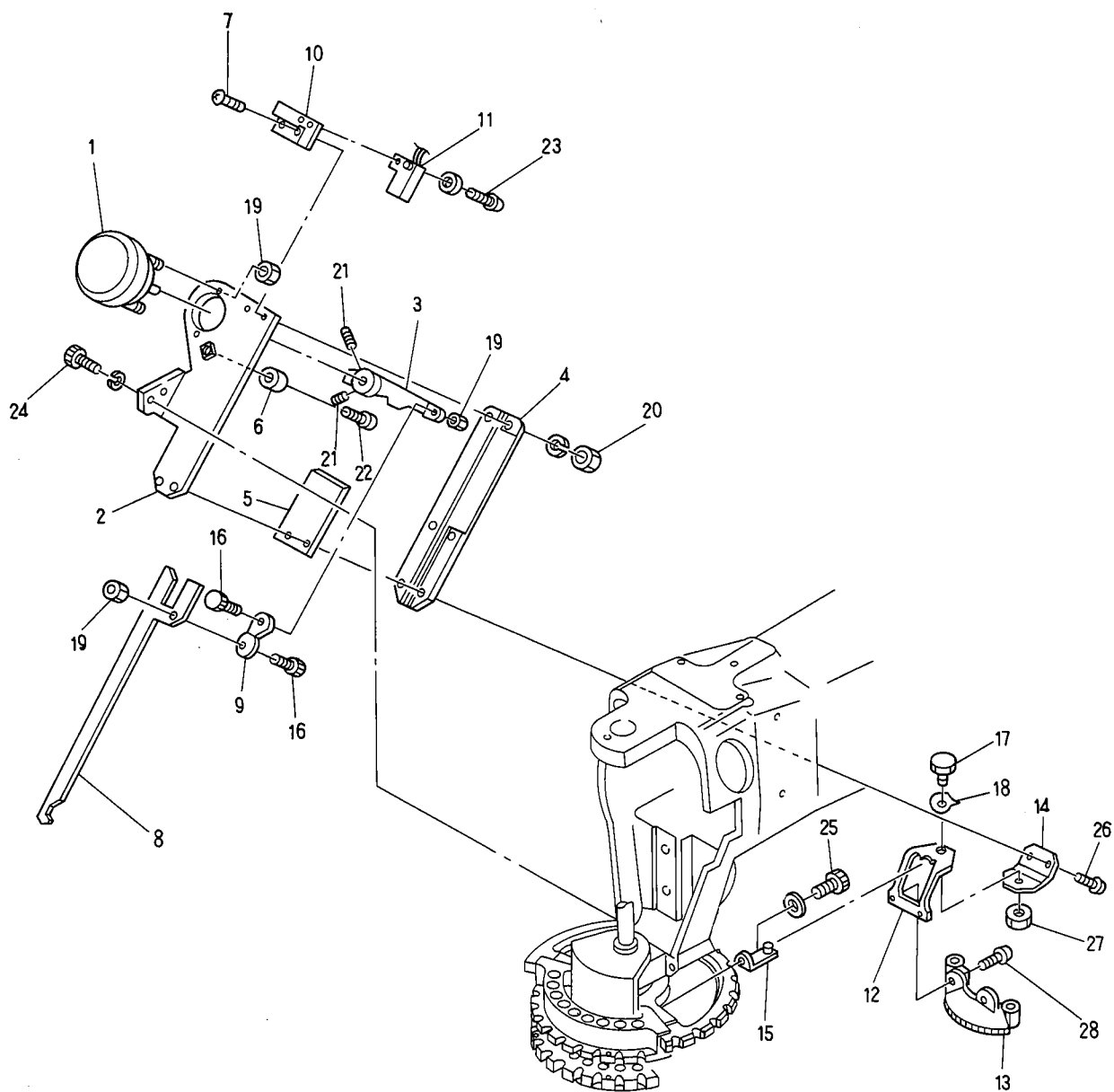
⑨ Thread guide mechanism

(H=Head Q' TY)

[illegible]

Barudan

⑩ Automatic thread cutting mechanism II
(Thread away section)

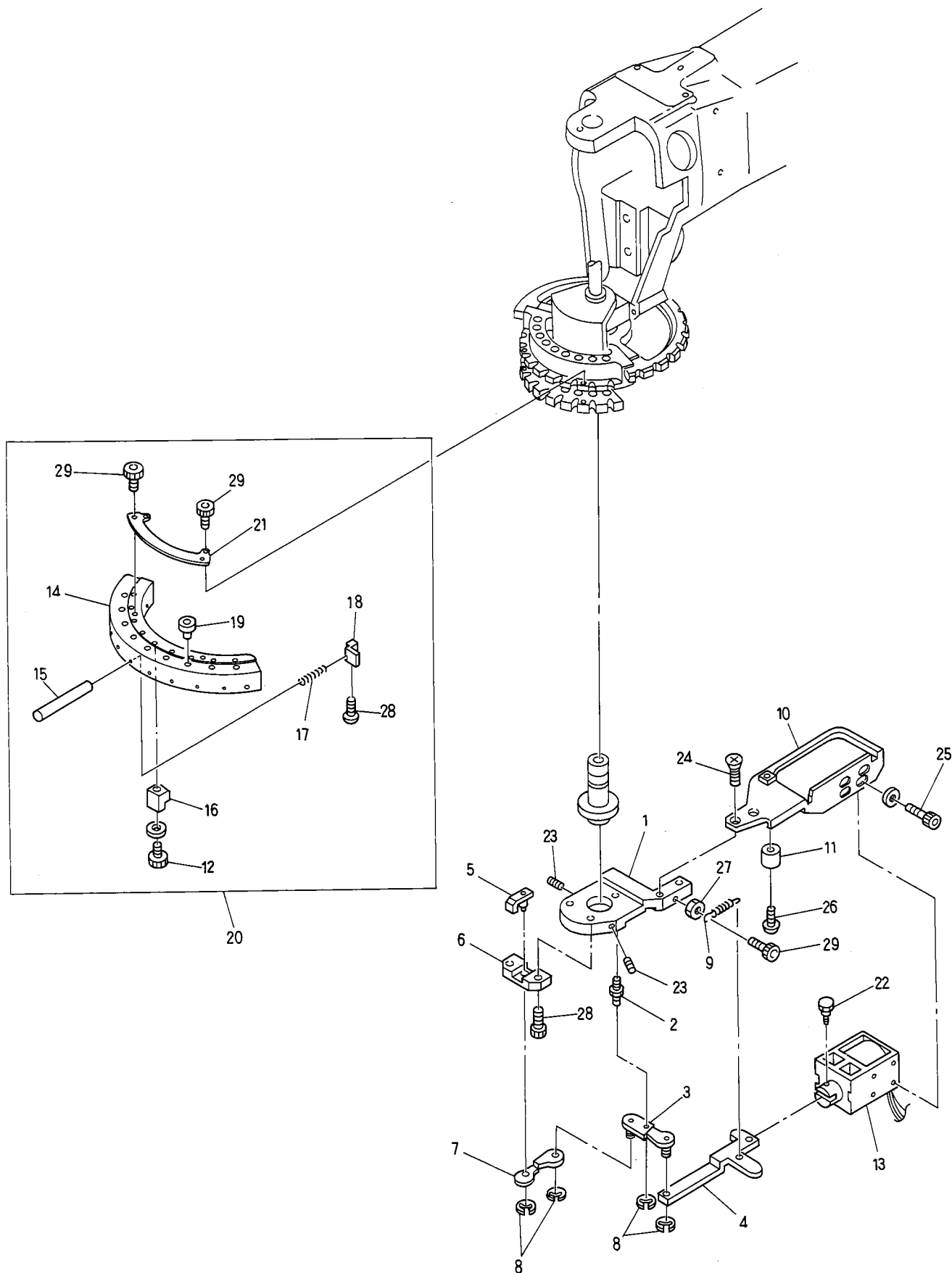


MODEL BENS-YN

⑩ Automatic thread cutting mechanism II (Thread away section)

(H=Head Q' TY)

[illegible]



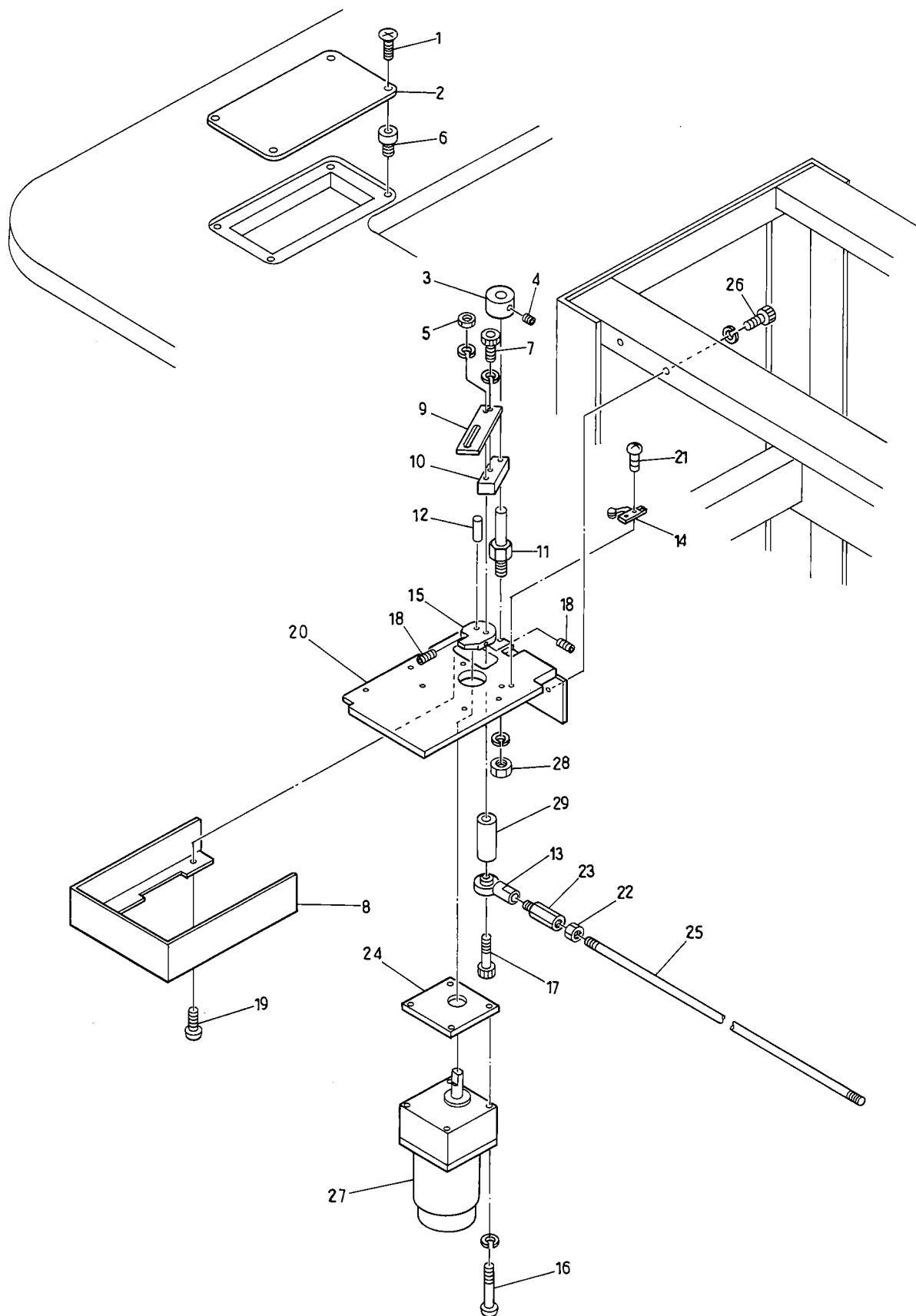
⑪ Automatic thread cutting mechanismⅢ(Thread support section)

(H=Head Q' TY)

[illegible]

Barudan

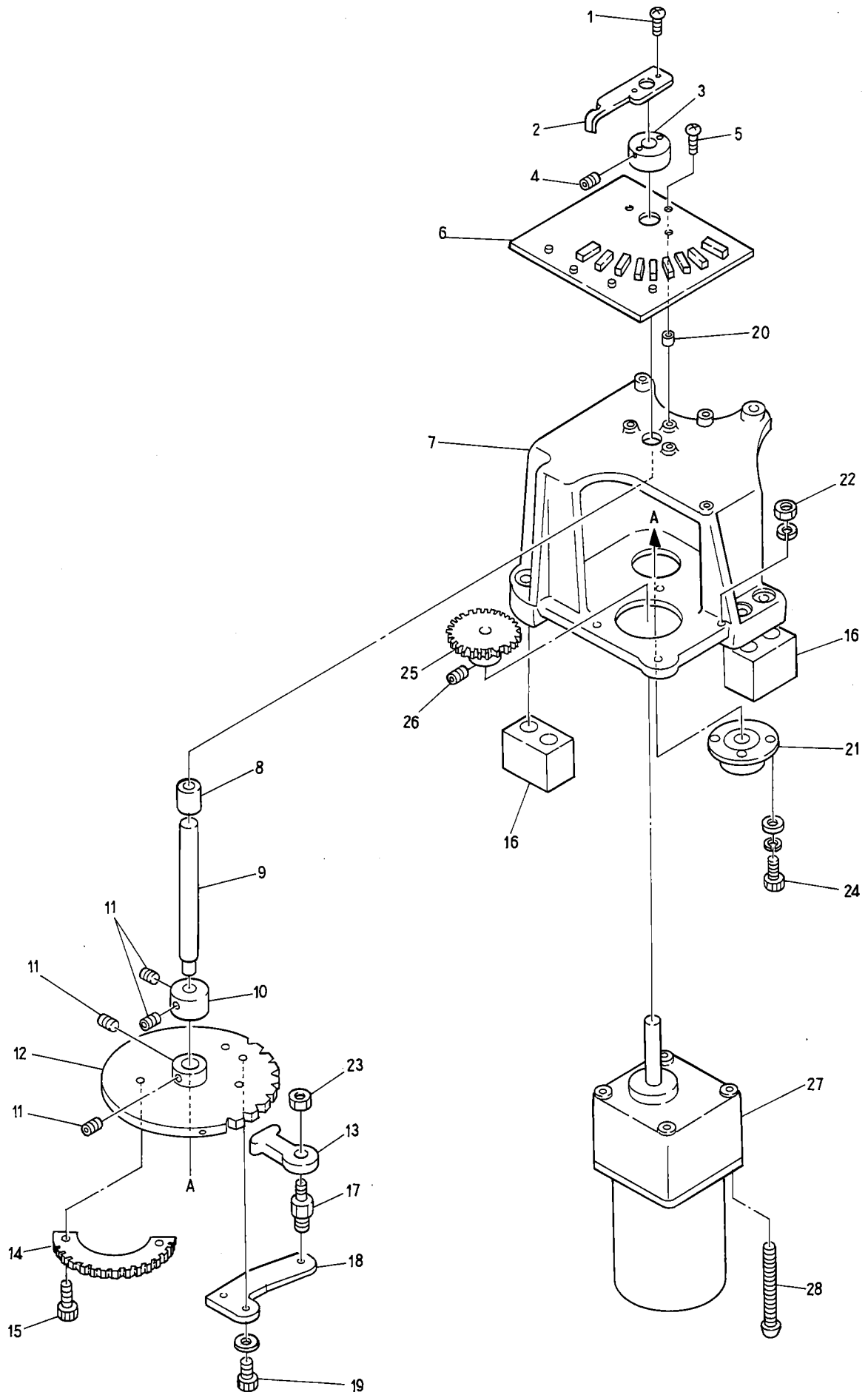
⑫ Automatic thread cutting mechanism IV
(Thread cutting drive section)



MODEL BENS-YN

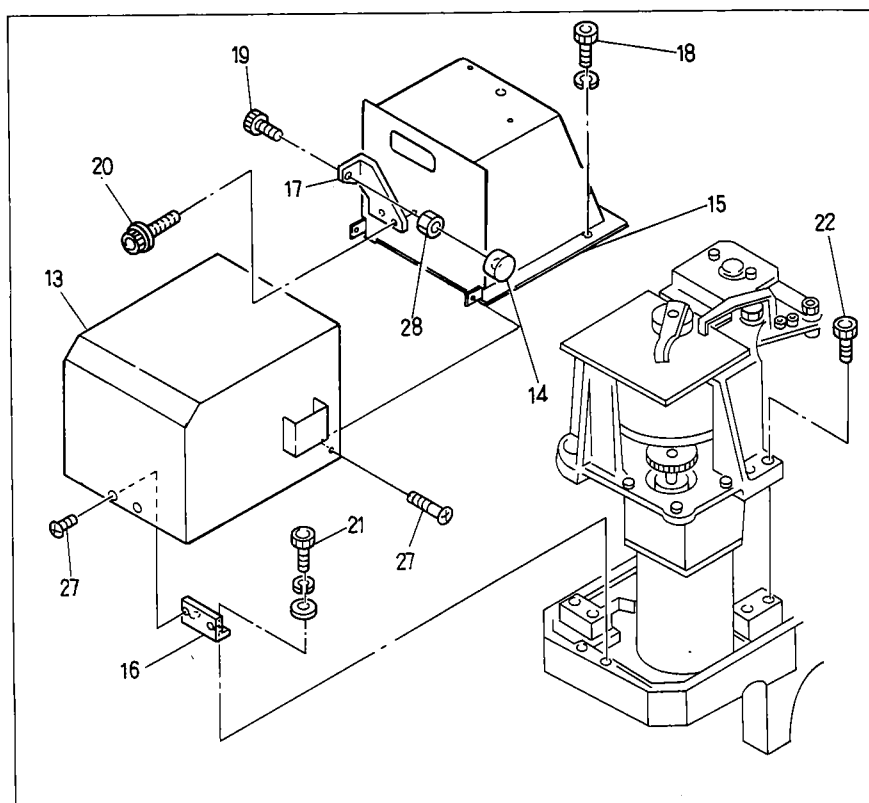
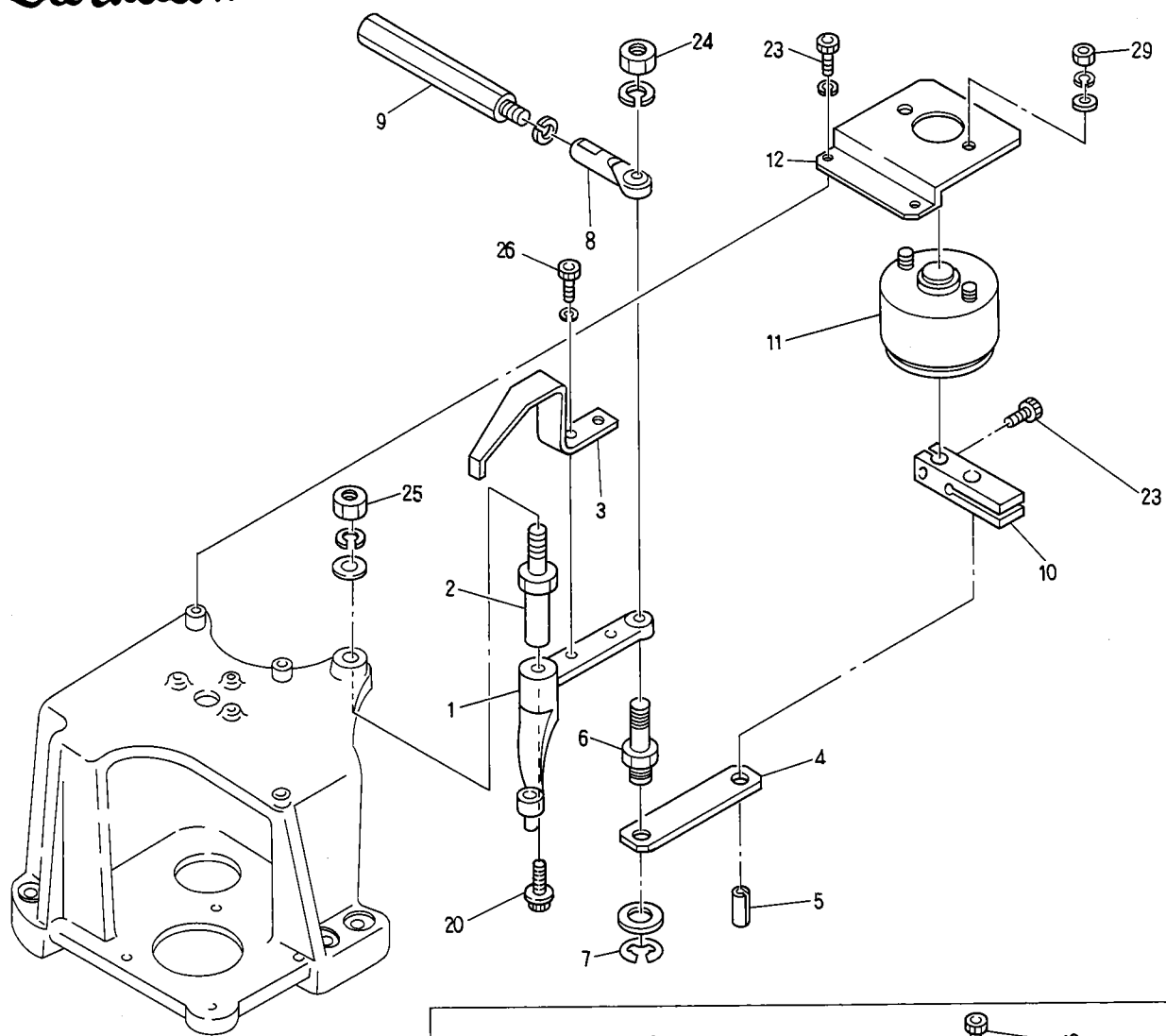
⑫ Automatic thread cutting mechanismIV (Thread cutting drive section)

[illegible]



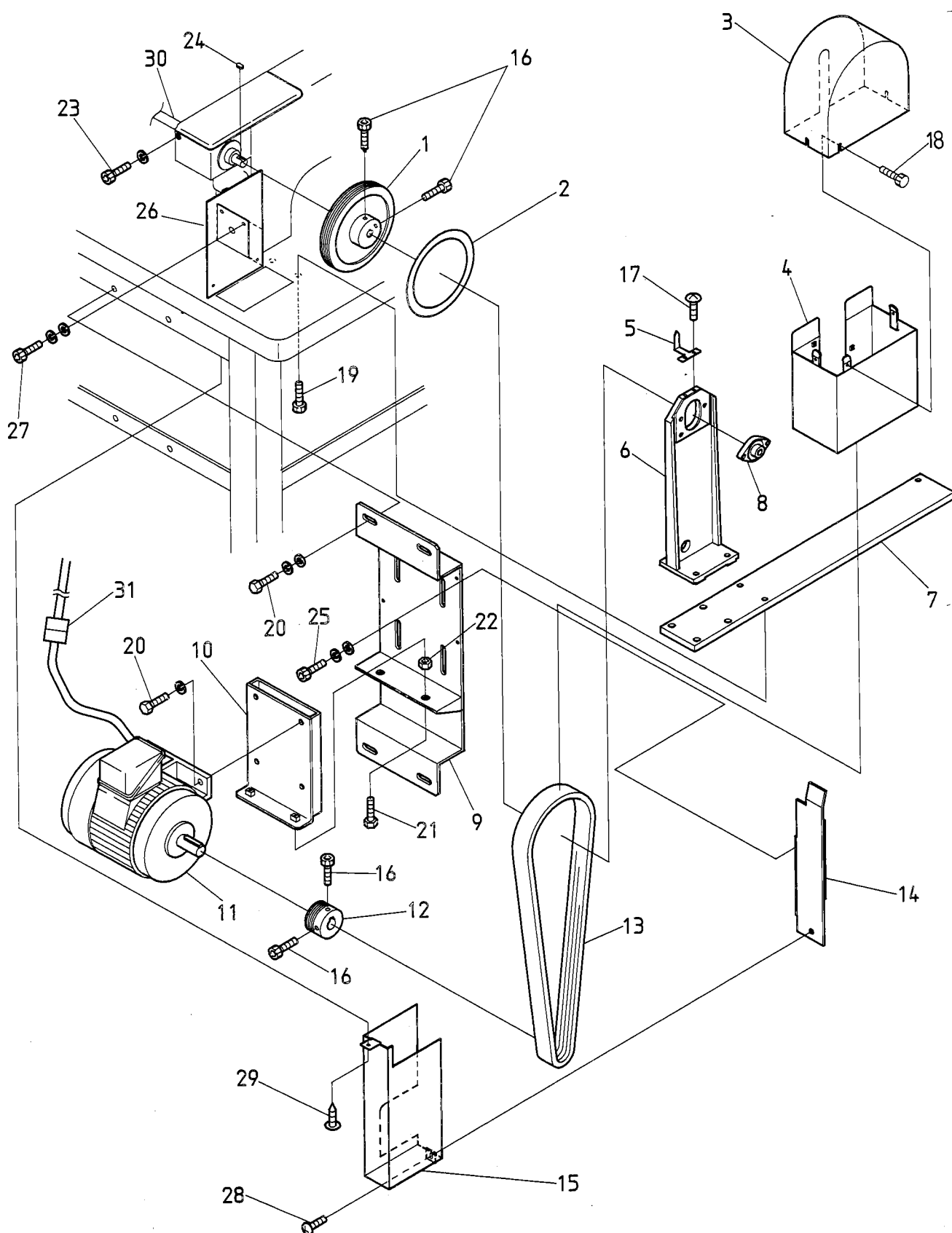
⑬ Color change mechanism I

[illegible]



⑭ Color change mechanism II

[illegible]



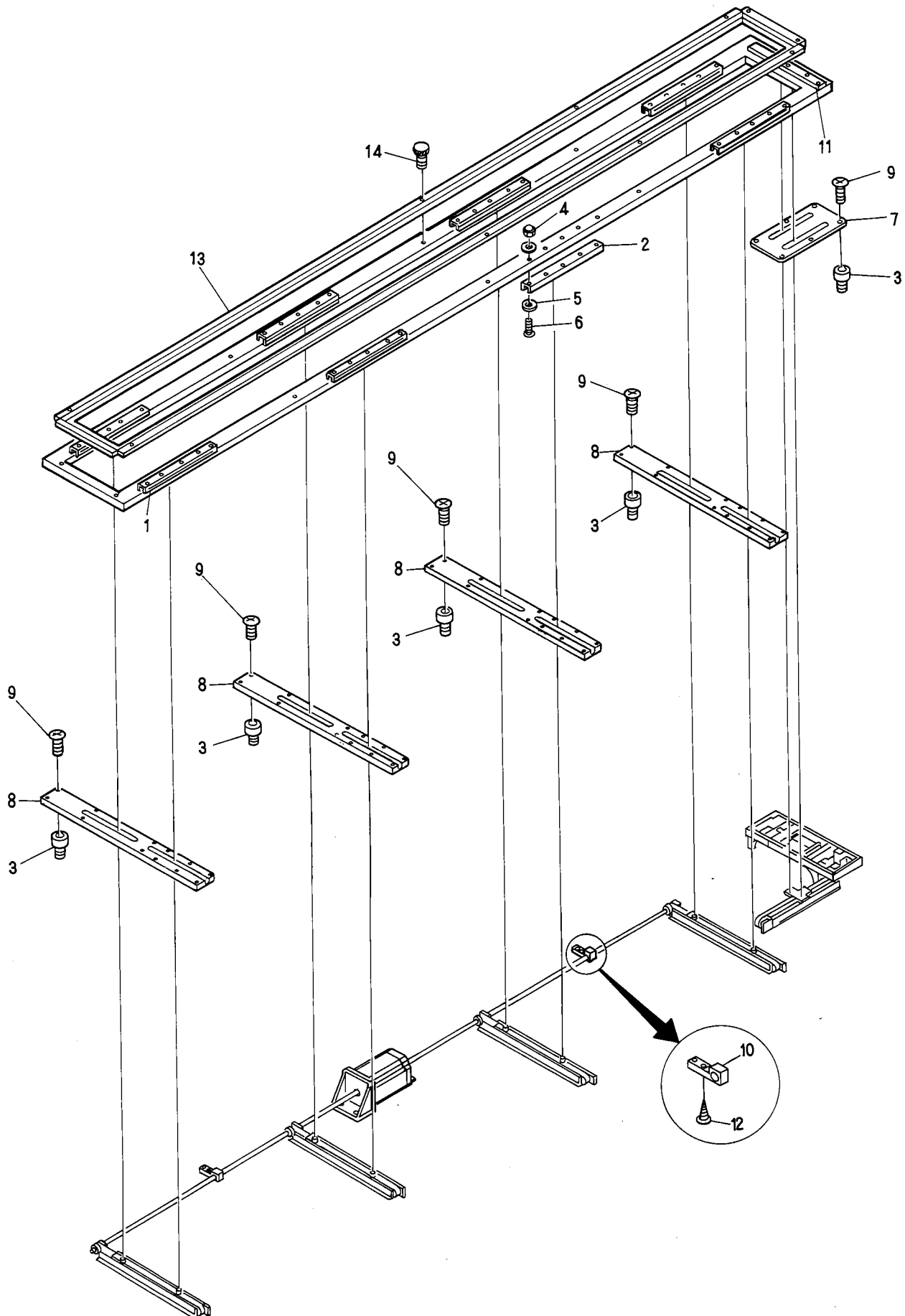
⑮ Drive mechanism

[illegible]



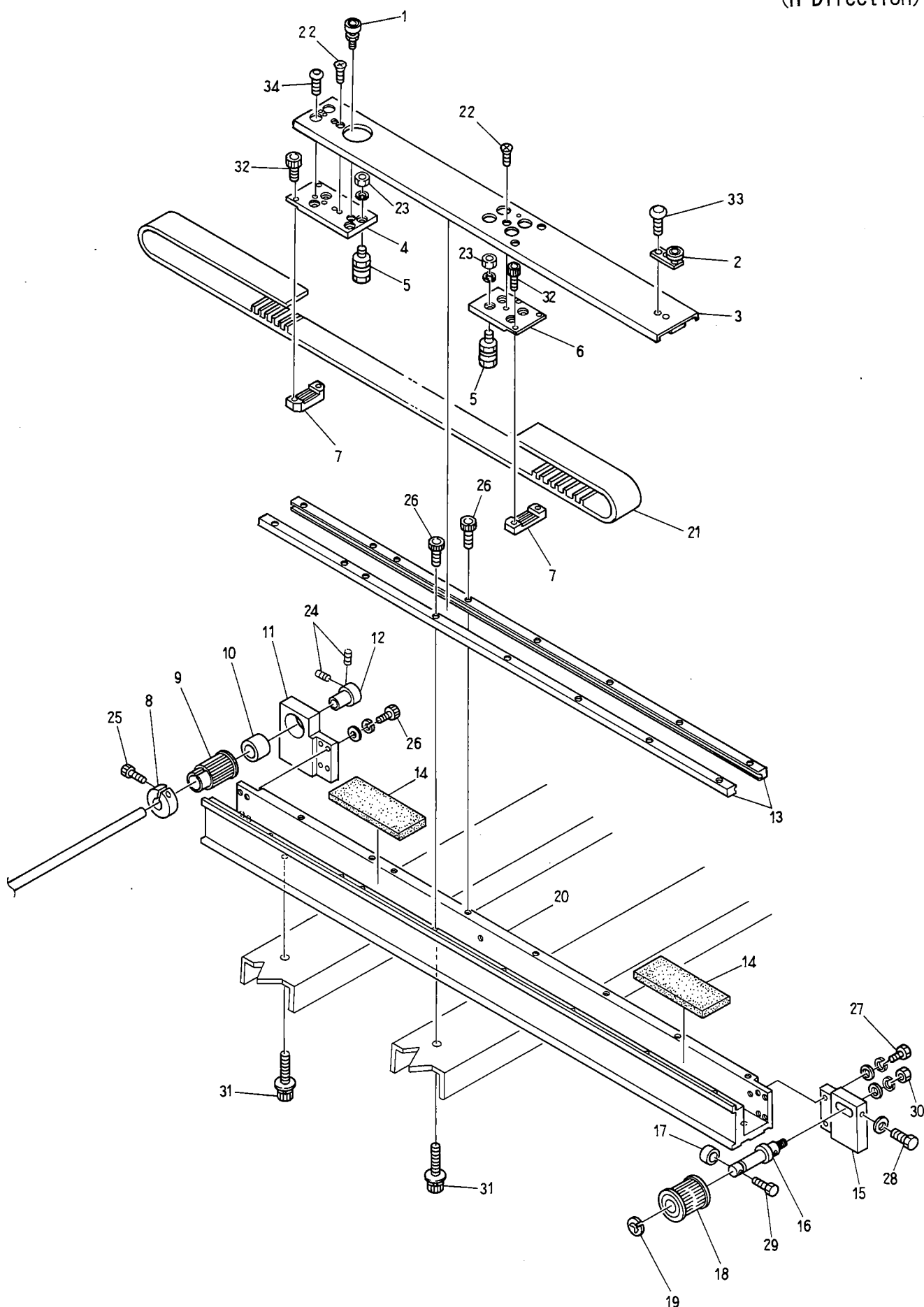
⑩ Connecting shaft mechanism

[illegible]



⑰ Pantograph drive mechanism I (V · H-Direction)

[illegible]

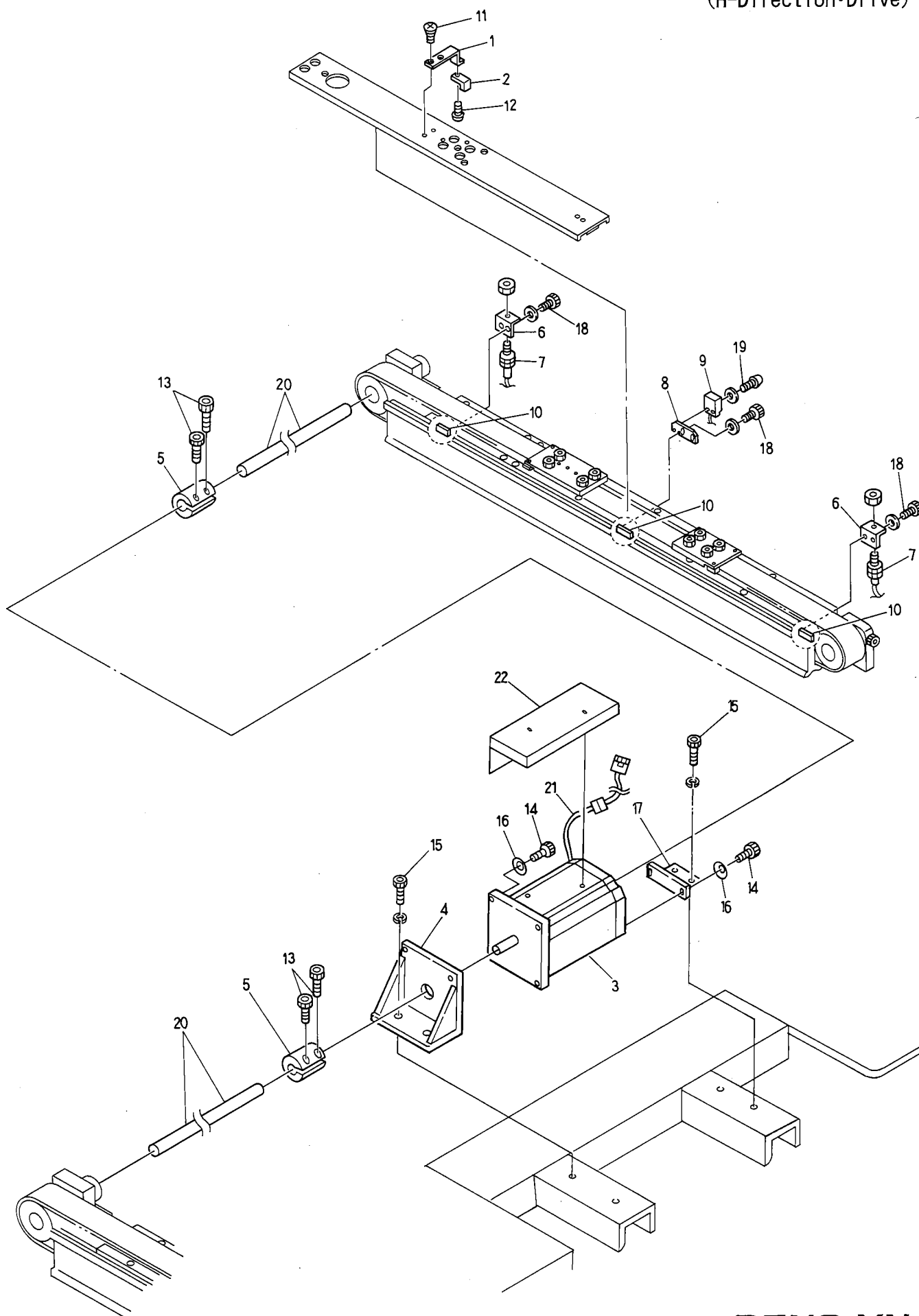


(R=H~Rail Q' TY)

— 37 —

Barudan

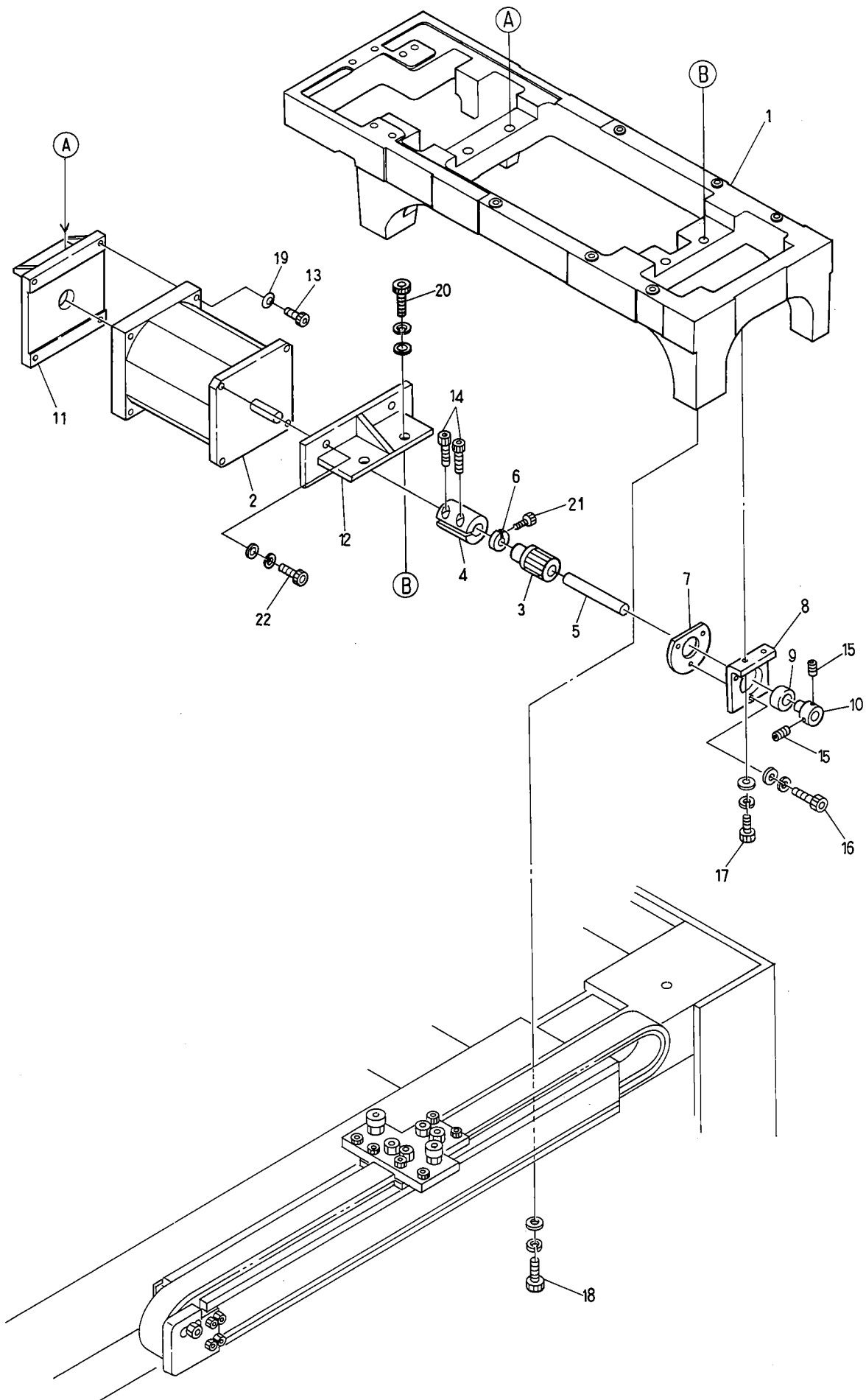
⑬ Pantograph drive mechanismⅢ
(H-Direction•Drive)



MODEL BENS-YN

⑬ Pantograph drive mechanismⅢ (H-Direction・Drive)

[illegible]

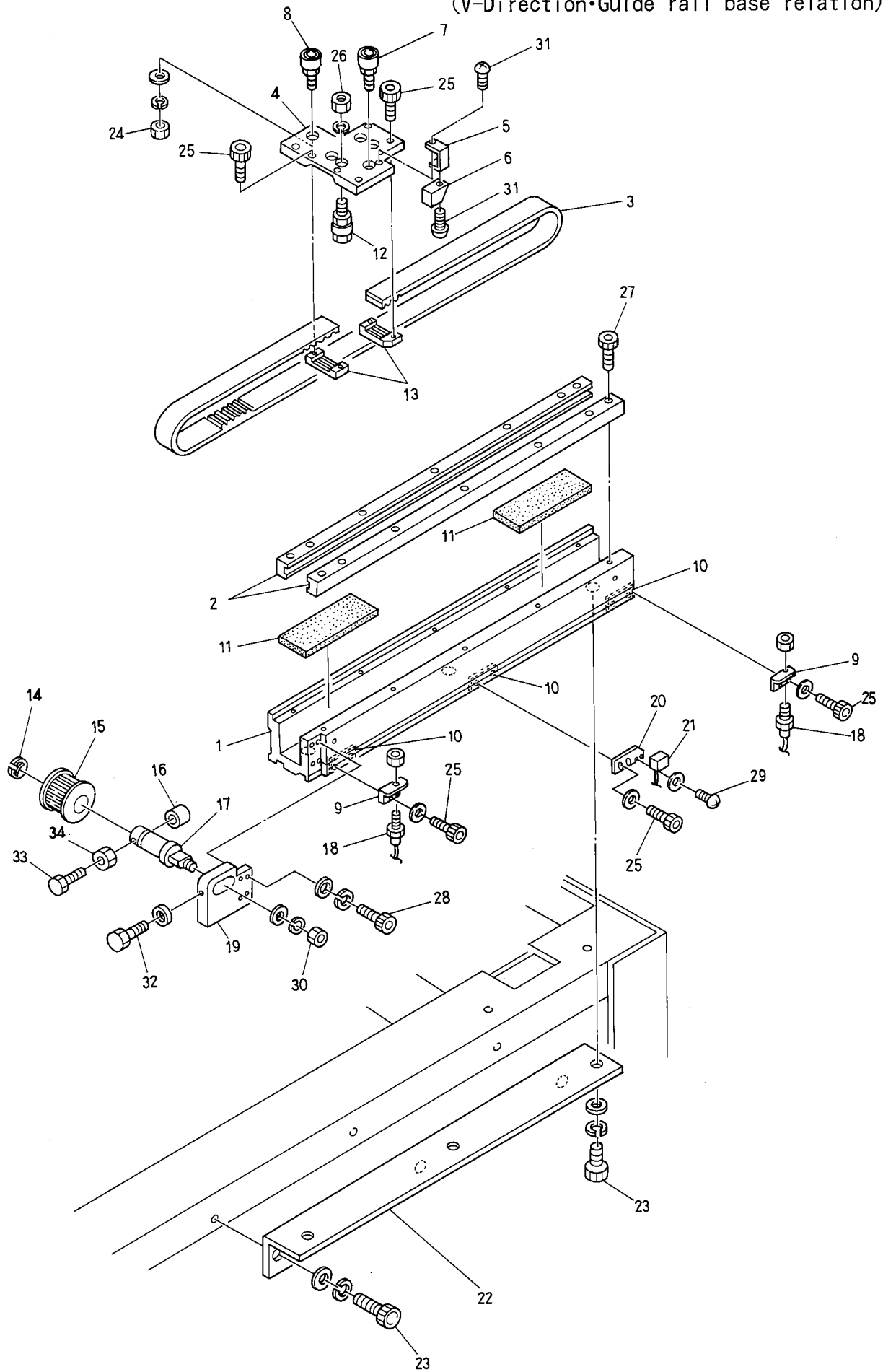


⑳ Pantograph drive mechanismIV (V-Direction・Drive)

[illegible]

Barudan

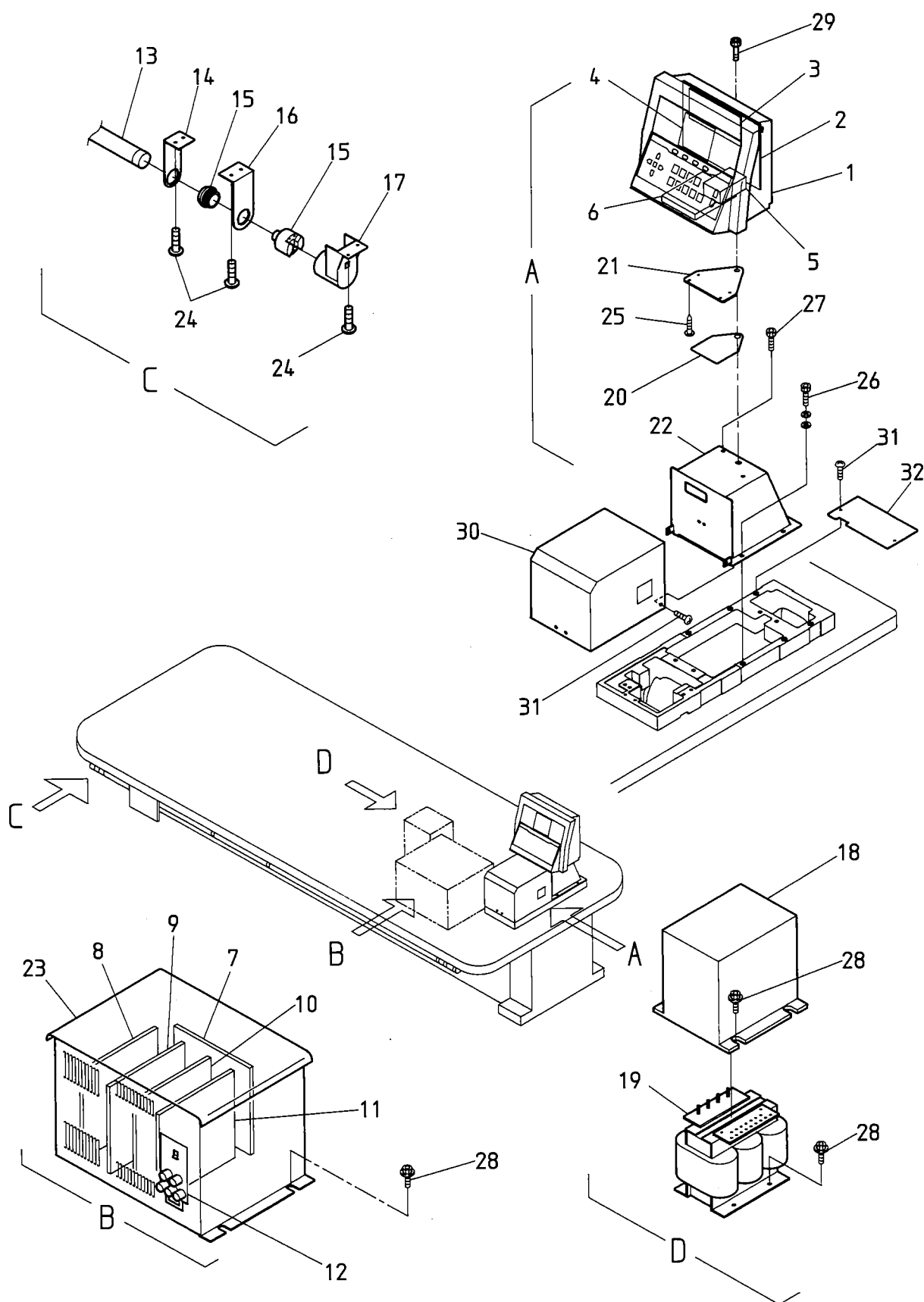
② Pantograph drive mechanism V
(V-Direction•Guide rail base relation)



MODEL BENS-YN

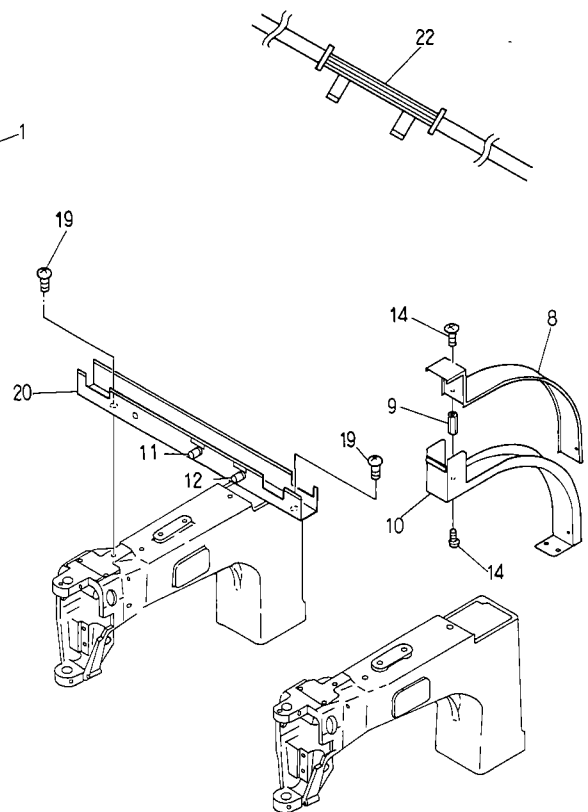
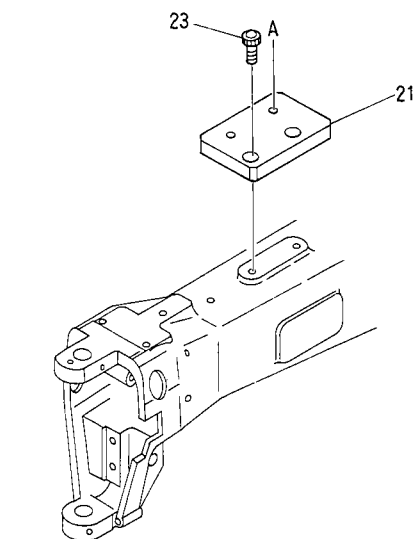
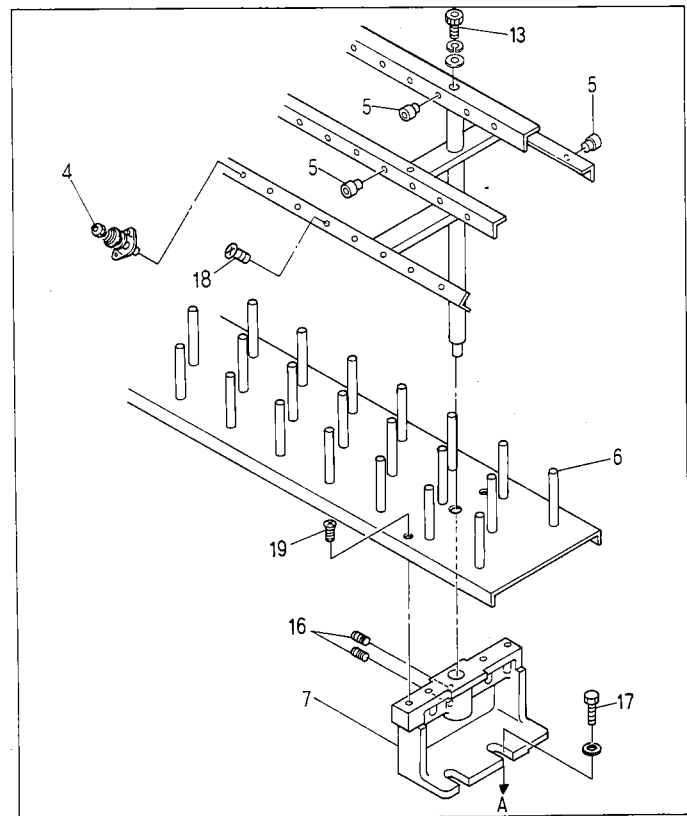
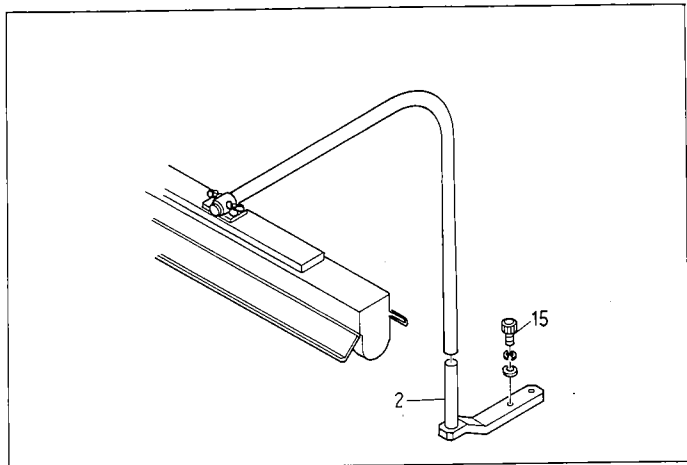
⑳ Pantograph drive mechanism V (V-Direction・Guide rail base relation)

[illegible]



②② Control system

[illegible]

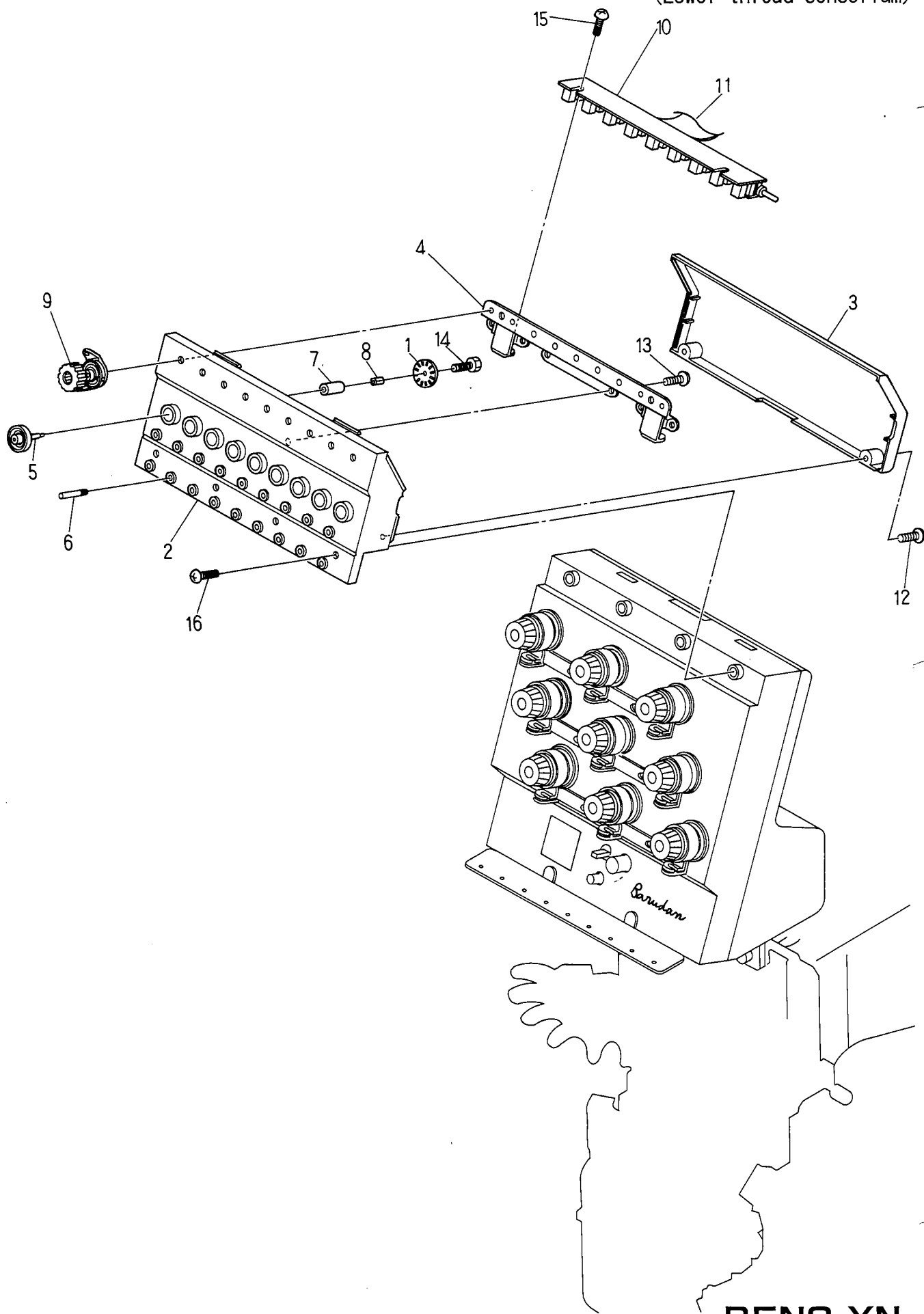


②3 Option

[illegible]

Barudan

②④ Thread guide mechanism
(Lower thread sensorium)



MODEL BENS-YN

(H=Head Q' TY)

— 49 —

I N D E X

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

I N D E X

L I S T No.	PAGE	ITEM No.	L I S T No.	PAGE	ITEM No.
H B 2 4 0 0 8 0	1 7	2 2	H T 2 3 0 1 3 0	1 3	3
H B 2 4 0 0 9 0	1 7	2 1	H T 2 3 0 1 4 1	1 3	1 3
H B 2 4 0 1 1 0	1 7	1 7	H T 2 3 0 1 5 1	1 3	4
H B 2 4 0 3 1 0	1 7	8	H T 2 3 0 1 8 0	1 3	2 8
H B 2 4 0 3 3 0	1 7	1 2	H T 2 3 0 1 9 0	1 3	2
H B 2 4 0 3 4 0	1 7	1 1	H T 2 3 0 2 0 1	1 5	2 1
H B 3 1 0 2 8 0	3 0	1 1	H T 2 3 0 2 5 1	1 3	8
H H 3 3 0 7 6 0	2 5	2 3	H T 2 3 0 6 5 0	1 3	3 5
H H 4 8 1 9 3 1	3 9	5	H T 2 4 0 0 0 0	1 1	2
H H 4 8 1 9 3 1	4 1	4	H T 2 4 0 0 1 0	1 1	1 8
H H 4 8 1 9 7 0	3 7	1 2	H T 2 4 0 0 2 0	1 9	1 9
H H 4 8 1 9 7 0	4 1	4 1	H T 2 4 0 0 6 0	1 9	1 9
H H 4 8 1 9 8 0	3 7	8	H T 2 4 0 1 0 0	4 9	1
H H 4 8 1 9 8 0	4 1	6	H T 2 4 0 1 2 0	1 9	1
H H 4 8 1 9 9 1	3 7	1 6	H T 2 4 0 1 3 0	1 9	2
H H 4 8 1 9 9 1	4 3	1 7	H T 2 4 0 1 4 0	1 9	3
H H 4 8 2 1 1 0	3 7	1 7	H T 2 4 0 1 5 0	1 9	4
H H 4 8 2 1 1 0	4 3	1 6	H T 2 4 0 1 6 0	1 9	5
H H 7 1 0 1 0 0	4 7	1	H T 2 4 0 1 7 0	1 9	6
H H 7 1 0 3 0 0	4 7	1	H T 2 4 0 1 8 0	1 9	7
H P 2 3 1 3 9 0	5	1 3	H T 2 4 0 2 1 0	1 9	1 5
H P 2 4 1 4 3 0	4 7	4	H T 2 4 0 2 2 0	1 9	1 6
H P 2 7 2 5 5 0	9	1	H T 2 4 0 2 3 0	1 9	1 7
H P 2 7 2 5 6 0	9	2	H T 2 4 0 2 4 0	1 9	1 8
H P 2 7 2 5 7 0	9	2 6	H T 2 4 0 2 5 0	4 9	2
H P 3 1 3 6 9 0	3 1	2	H T 2 4 0 2 7 0	4 9	3
H P 3 2 1 1 4 0	5	2 5	H T 2 4 0 2 8 0	4 9	4
H P 3 2 1 1 4 0	3 1	8	H T 2 4 0 2 9 0	4 9	5
H P 4 8 2 9 4 0	3 7	7	H T 2 4 0 3 0 0	4 9	6
H P 4 8 2 9 4 0	4 3	1 3	H T 2 4 0 3 1 0	4 9	7
H P 4 8 2 9 5 0	3 7	5	H T 2 4 0 3 2 0	1 9	1 4
H P 4 8 2 9 5 0	4 3	1 2	H T 2 4 0 3 3 0	1 9	1 9
H P 4 8 3 1 1 1	4 3	8	H T 2 4 0 3 4 0	4 9	4 9
H P 4 8 3 3 7 0	3 7	1	H T 2 7 0 0 0 1	2 3	1 4
H P 4 8 3 3 7 0	4 3	7	H T 2 7 0 0 1 0	2 3	2 1
H P 4 8 3 3 9 1	3 7	2	H T 2 7 0 0 2 0	2 3	1 8
H P 7 1 0 7 9 1	4 7	7	H T 2 7 0 0 3 0	2 3	2 0
H T 2 3 0 0 0 0	1 3	1 8	H T 2 7 0 0 4 0	2 3	1 5
H T 2 3 0 0 4 1	1 3	7	H T 2 7 0 0 6 1	2 3	2 8
H T 2 3 0 0 5 1	1 3	5	H T 2 7 0 1 6 0	9	6
H T 2 3 0 0 6 2	1 3	1 6	H T 2 7 0 1 8 0	9	7
H T 2 3 0 0 8 0	1 1	1 5	H T 7 1 0 0 0 0	4 7	6
H T 2 3 0 0 9 0	1 1	1 1	H V 3 3 0 0 1 0	4 5	2 0
H T 2 3 0 1 0 0	1 1	1 2	H V 3 3 0 0 2 0	4 5	2 1
H T 2 3 0 1 1 0	1 3	1 5	H V 4 8 0 0 1 0	3 9	4

I N D E X

L I S T No.	PAGE	ITEM No.	L I S T No.	PAGE	ITEM No.
H V 4 8 0 0 2 0	3 9	1 7	K C 2 7 0 9 7 0	9	1 4
H V 4 8 0 0 4 0	3 7	3 7	K C 2 7 0 9 8 0	9	1 2
H V 4 8 0 0 4 0	4 1	3	K C 2 7 1 4 4 0	2 5	2
H V 4 8 0 0 4 0	4 3	1 5	K C 3 1 2 8 9 0	3 3	7
H V 4 8 0 0 5 0	3 7	1 8	K C 3 2 0 5 9 0	3 3	5
H V 4 8 0 0 6 0	3 9	3	K C 3 3 0 1 6 1	2 7	2 7
H V 4 8 0 0 6 0	4 1	2	K C 3 3 0 1 7 0	2 7	3
H V 4 8 0 0 7 0	3 5	3 5	K C 3 3 0 1 8 0	2 5	3
HV4801101410	3 7	2 1	K C 3 3 0 1 8 0	2 7	7
H V 5 1 0 0 2 0	3 9	2 1	K C 3 3 0 1 8 0	2 7	2 7
K B 2 1 0 1 6 0	5	1	K C 3 3 0 1 9 0	2 7	8
K B 2 1 0 1 7 0	1 7	1	K C 3 3 0 2 1 0	2 7	2 5
K B 2 1 0 1 8 0	7	1	K C 3 3 0 2 3 0	2 9	6
K B 2 3 0 0 1 1	5	3 0	K C 3 3 0 2 6 0	2 9	1 2
K B 2 3 0 0 2 1	5	3 0	K C 3 3 0 2 8 0	2 7	2
K B 2 3 0 0 3 0	5	2 7	K C 3 3 0 2 9 0	2 9	3
K B 2 3 0 0 4 0	5	2 7	K C 3 3 0 4 1 0	1 3	2 5
K B 2 3 0 0 5 0	5	2 8	K C 3 3 0 4 1 0	1 5	1 8
K B 2 3 0 0 6 0	1 5	8	K C 3 3 0 4 1 0	2 5	2 5
K B 2 3 0 0 7 0	1 5	7	K C 3 3 0 5 1 0	2 9	2 9
K B 2 3 0 0 8 0	1 5	6	K C 3 3 0 6 1 0	2 7	2 1
K B 2 3 0 0 9 0	1 1	5	K C 3 3 0 8 5 0	2 9	1 1
K B 2 3 0 1 0 0	1 1	8	K C 3 3 0 9 1 0	2 9	1 6
K B 2 3 0 1 1 0	1 1	1 1	K C 4 5 0 0 2 0	3 5	1
K B 2 3 0 1 6 1	1 1	1	K C 4 7 0 4 6 0	4 3	2 2
K B 2 3 0 1 7 0	1 7	3	K C 4 8 0 3 5 0	3 5	1 1
K B 2 4 0 0 1 0	1 1	1 4	K C 5 2 0 0 2 0	4 5	1 8
K B 2 4 0 0 2 1	1 1	3	K C 5 3 0 2 3 0	4 5	1 6
K B 2 4 0 0 3 0	1 7	2	K C 5 3 0 2 4 0	4 5	1 4
K B 2 4 0 0 4 0	1 7	1 6	K F 2 2 0 1 3 0	5	1 1
K B 2 4 0 0 5 1	1 9	1 3	K F 2 2 0 2 3 0	7	1 3
K B 2 5 0 0 2 0	1 9	2 1	K F 2 2 0 2 7 1	7	4
K B 2 5 0 0 3 0	1 9	2 2	K F 2 2 0 2 9 0	7	8
K B 2 5 0 0 4 0	1 9	2 3	K F 2 2 0 3 0 2	7	1 6
K B 2 5 0 0 5 0	1 9	2 5	K F 2 2 0 4 1 0	7	1 5
K B 2 5 0 0 6 0	1 9	2 6	K F 2 2 0 4 2 1	7	1 5
K C 1 1 0 9 1 0	3	4	K F 2 2 0 4 4 0	7	1 6
K C 1 2 0 8 3 0	3	8	K F 2 2 0 4 6 0	5	1 9
K C 1 2 0 8 4 1	3	3	K F 2 2 0 4 7 0	7	5
K C 1 2 0 8 6 0	3	2	K F 2 2 0 4 8 0	7	7
K C 2 2 0 2 1 0	7	1 7	K F 2 2 0 5 1 1	7	1 2
K C 2 5 1 3 3 0	5	2 9	K F 2 2 0 5 1 1	9	2 1
K C 2 7 0 1 0 1	2 3	2 2	K F 2 2 0 7 5 0	7	1 4
K C 2 7 0 2 7 1	2 3	1 7	K F 2 3 0 2 3 0	1 3	1 2
K C 2 7 0 2 9 2	2 3	1 6	K F 2 3 0 2 4 0	1 3	1 3

I N D E X

L I S T No.	PAGE	ITEM No.	L I S T No.	PAGE	ITEM No.
KN 2 7 1 7 3 2	2 5	1 5	KR 4 8 0 0 6 0	4 3	1 9
KN 2 7 1 7 5 0	2 5	1 1	KR 5 1 0 1 2 0	4 7	4 7
KN 2 7 1 7 8 1	2 5	2 5	KR 5 1 0 1 3 0	4 7	8
KN 2 7 1 8 0 0	2 5	2 9	KT 2 3 0 0 0 0	1 1	1 9
KN 2 7 1 9 8 0	9	2	KT 2 3 0 0 1 0	1 1	1 7
KN 2 7 1 9 9 0	2 5	2 5	KT 2 3 0 0 2 0	1 1	4
KN 2 7 2 0 0	9	2 3	KT 2 3 0 0 3 0	1 1	1 1
KN 2 7 2 3 5 0	2 5	1 2	KT 2 3 0 0 4 0	1 1	1 6
KN 2 7 2 4 0 0	9	3	KT 2 3 0 0 5 0	1 1	3 6
KN 2 7 2 4 0 0	2 1	6	KT 3 3 0 0 0 0	2 7	1 2
KN 2 7 2 4 0 0	2 3	1 1	KU 4 6 0 2 7 0	3 9	3 9
KN 3 1 0 0 1 0	3 1	1 2	KU 4 6 0 2 7 0	4 3	4 3
KN 3 3 0 2 4 0	2 9	2 9	KU 4 6 0 3 4 2	3 9	1
KN 3 3 0 2 5 0	2 9	4	KV 1 4 0 0 1 0	3	3
KN 4 5 0 3 0 0	3 9	8	KV 3 1 0 0 1 0	3 1	2 4
KN 4 5 0 3 0 0	4 3	2 0	KV 3 1 0 0 2 0	3 1	6
KN 4 5 0 3 1 1	4 3	5	KV 3 1 0 0 3 0	3 1	7
KN 4 8 0 0 6 1	3 7	1 4	KV 3 1 0 0 5 0	3 1	4
KN 4 8 0 0 6 1	4 3	1 1	KV 3 1 0 0 6 0	3 9	2 2
KN 4 8 0 4 0 0	3 5	2	KV 3 1 0 0 7 0	3 1	3 1
KN 4 8 2 6 2 0	4 3	2 2	KV 3 1 0 0 8 0	3 1	3 1
KN 4 8 2 8 7 1	3 7	4	KV 3 1 0 0 9 0	3 1	5
KN 4 8 2 8 8 0	3 7	6	KV 3 1 0 1 0 0	3 1	1 5
KN 4 8 2 8 9 0	4 3	4	KV 3 1 0 1 1 0	3 1	1 4
KN 4 8 3 4 4 2	3 7	3	KV 3 1 0 1 2 0	3 1	3 0
KN 4 8 3 4 5 0	3 7	1 3	KV 3 1 0 1 3 0	5	5
KN 4 8 3 4 5 0	4 3	2	KV 3 1 0 1 3 0	3 1	3 0
KN 4 8 3 4 6 0	3 7	3	KV 3 3 0 0 1 0	2 9	1 5
KN 4 9 0 1 2 1	4 1	8	KV 3 3 0 0 1 0	4 5	2 2
KN 4 9 0 1 3 0	4 1	7	KV 3 3 0 0 2 0	2 9	1 3
KN 5 1 1 0 2 0	3 3	3 3	KV 3 3 0 0 2 0	4 5	3 0
KN 5 4 0 5 1 0	4 9	8	KV 3 3 0 0 3 0	4 1	1
KP 3 2 1 1 4 0	3 3	2	KV 3 3 0 0 4 0	4 5	3 2
KR 3 1 0 0 0 0	3 1	1	KV 4 7 0 0 1 0	4 1	1 1
KR 3 1 0 0 4 0	3 1	3	KV 4 7 0 0 2 0	4 1	1 2
KR 3 1 0 0 4 0	3 1	2 6	KV 4 7 0 0 3 0	4 1	5
KR 3 1 0 0 9 0	3 3	1	KV 4 8 0 0 1 0	3 7	2 0
KR 3 1 0 1 0 0	3 3	3 3	KV 4 8 0 0 2 0	3 5	8
KR 3 1 0 1 1 0	3 3	1 1	KV 4 8 0 0 3 0	4 3	1
KR 3 1 0 1 2 0	3 3	4	KV 4 8 0 0 4 0	3 5	7
KR 3 1 0 1 3 0	3 3	3	KV 4 8 0 1 7 0	4 3	1
KR 3 3 0 1 1 0	3 3	6	MT 4 6 0 2 4 0	3 9	6
KR 3 3 0 1 6 0	4 7	2 1	MT 4 6 0 2 4 0	4 3	4 3
KR 4 8 0 0 5 0	3 7	1 5	MT 5 1 0 7 9 1	4 7	4 7
KR 4 8 0 0 6 0	3 7	1 1			

I N D E X

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

