

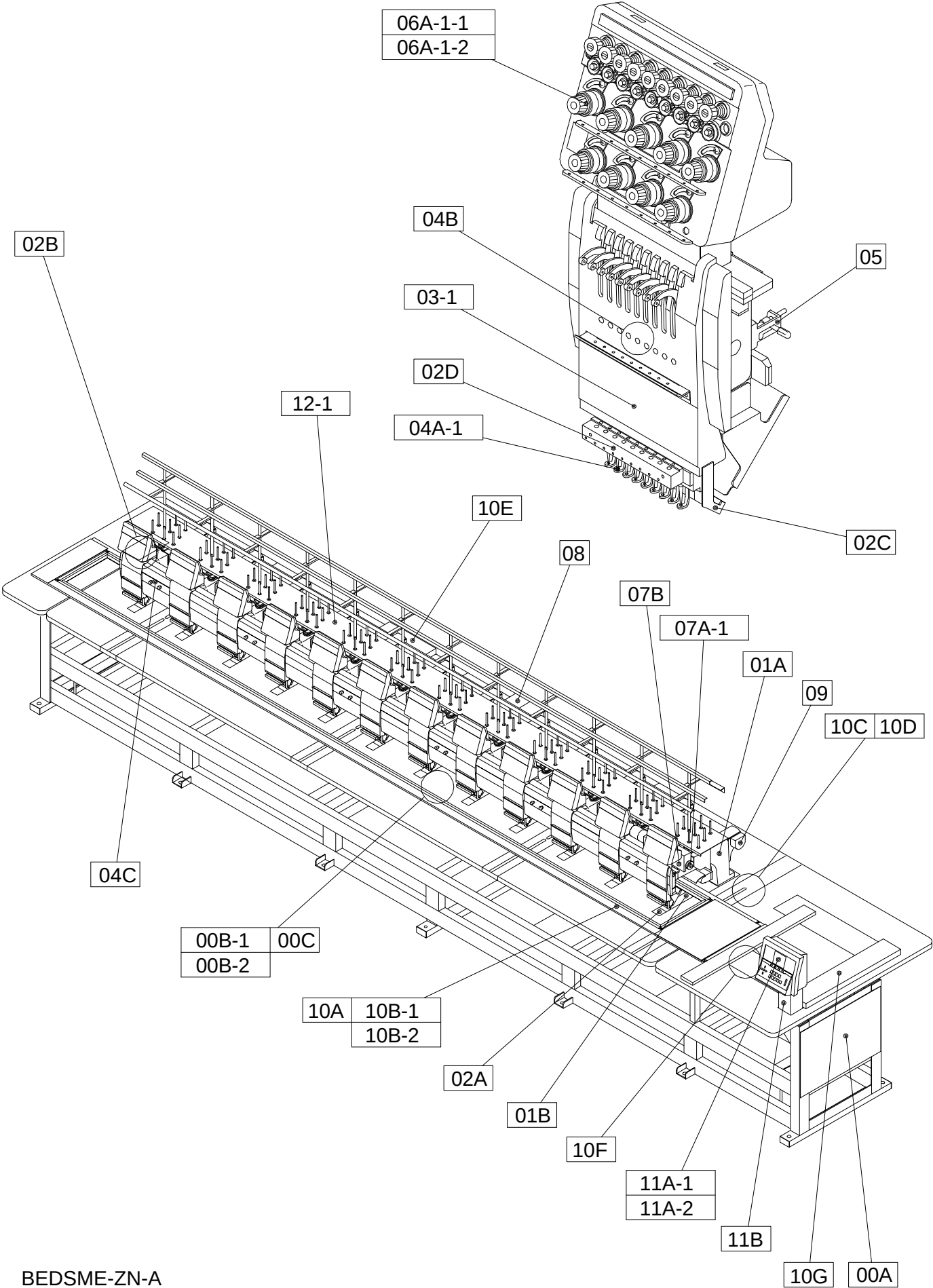
Barudan

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

BEDSME-ZN/ZQ-A

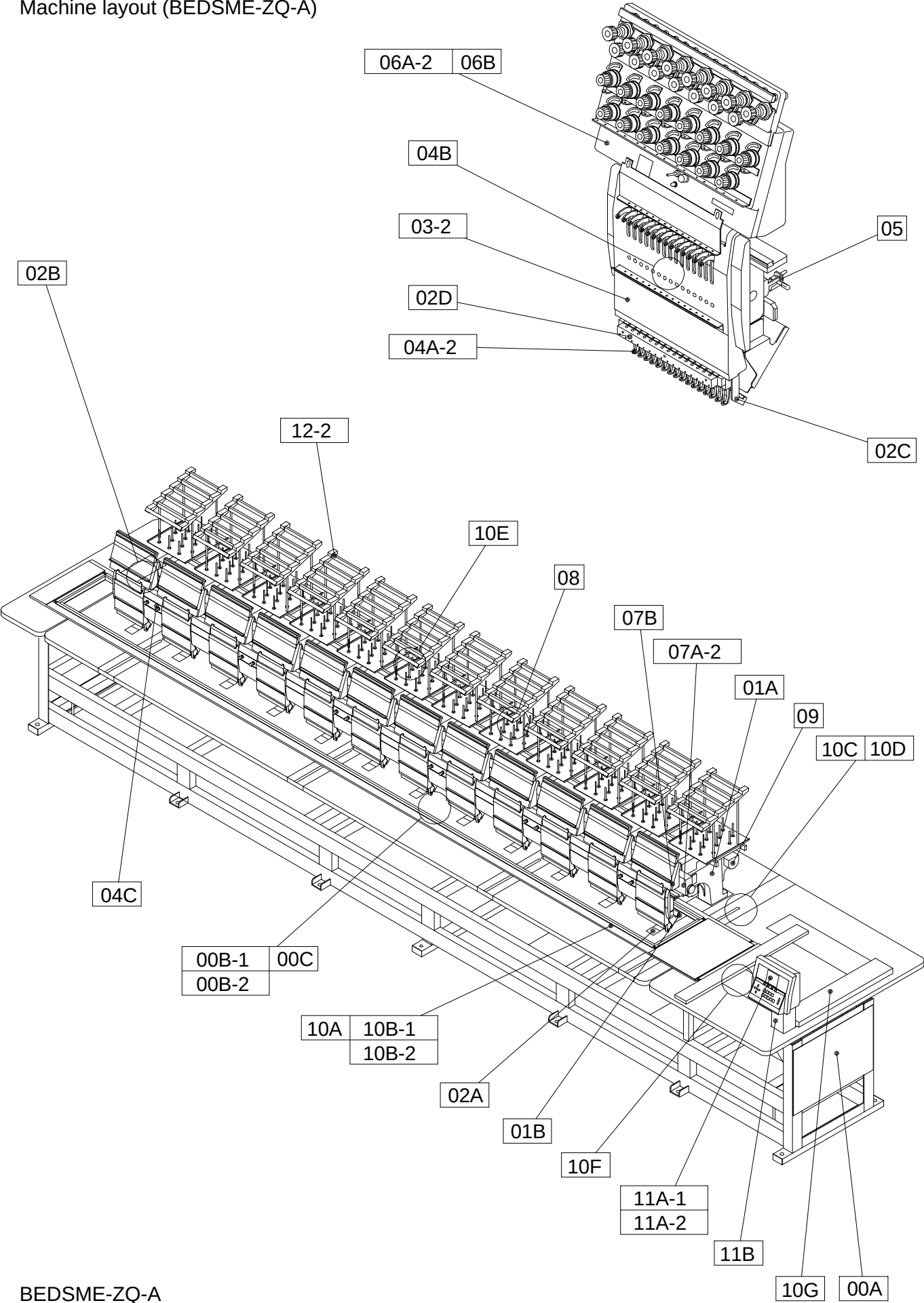
PARTS LIST

Machine layout (BEDSME-ZN-A)

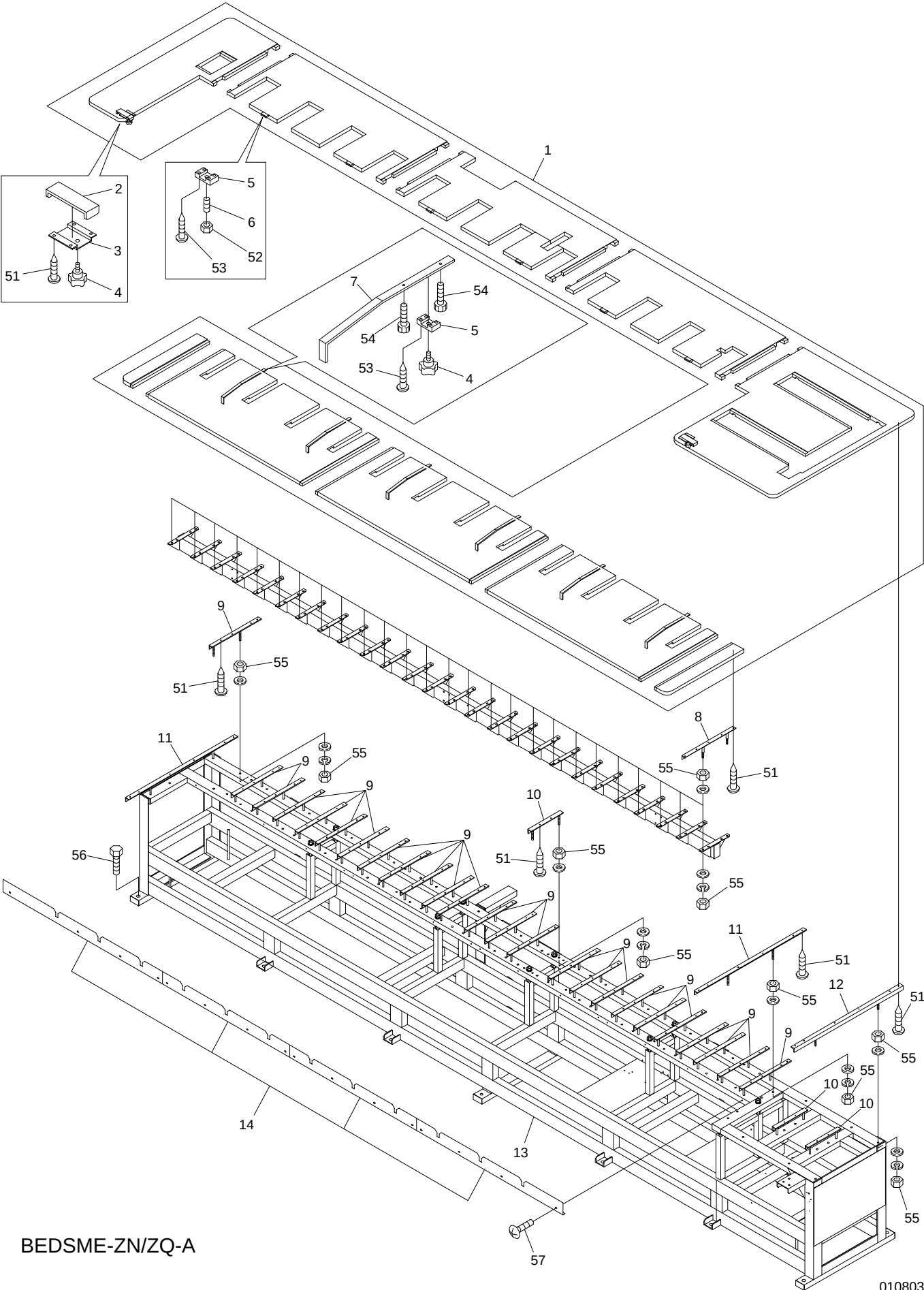


BEDSME-ZN-A

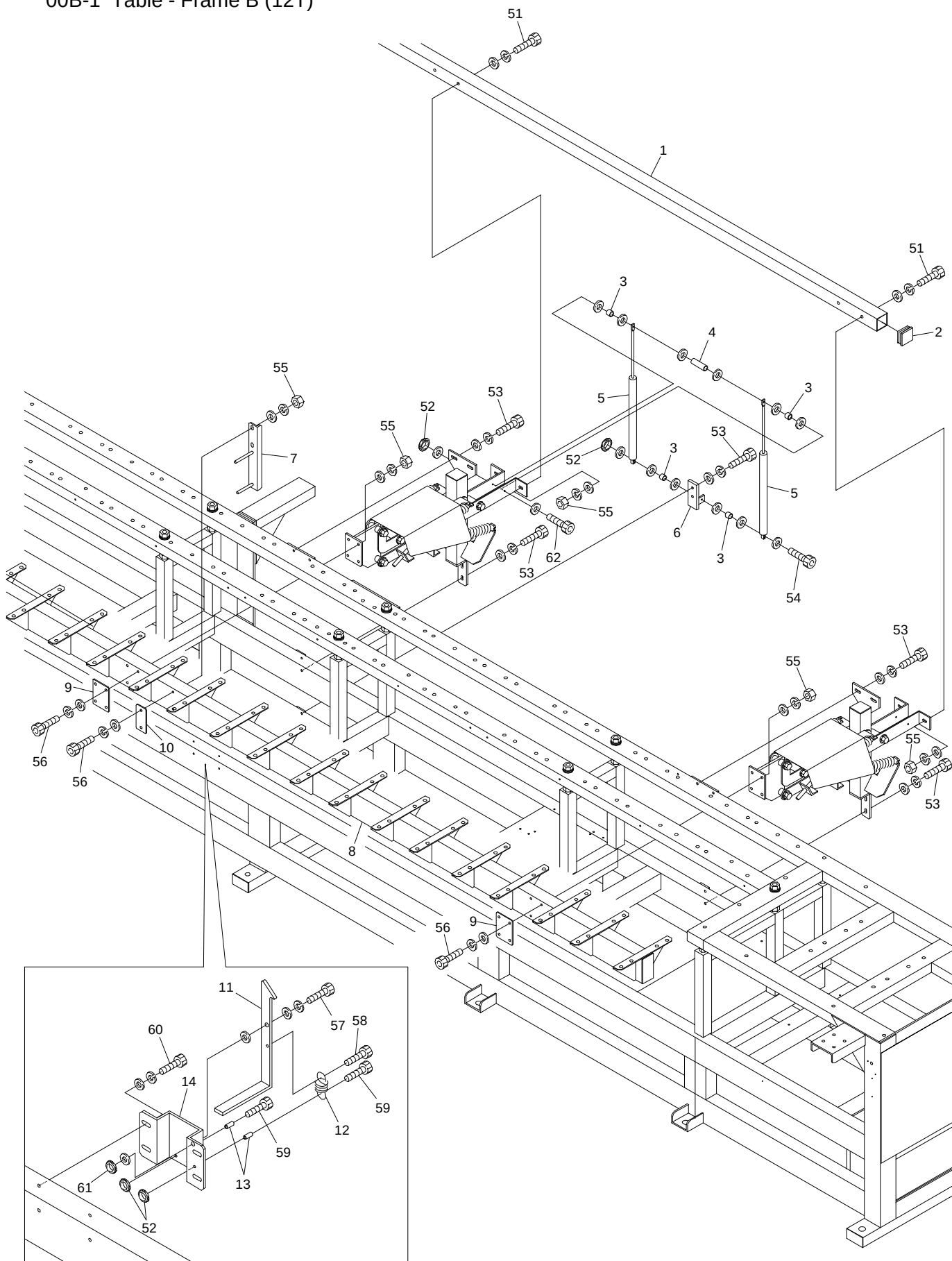
Machine layout (BEDSME-ZQ-A)



BEDSME-ZQ-A



00B-1 Table - Frame B (12T)

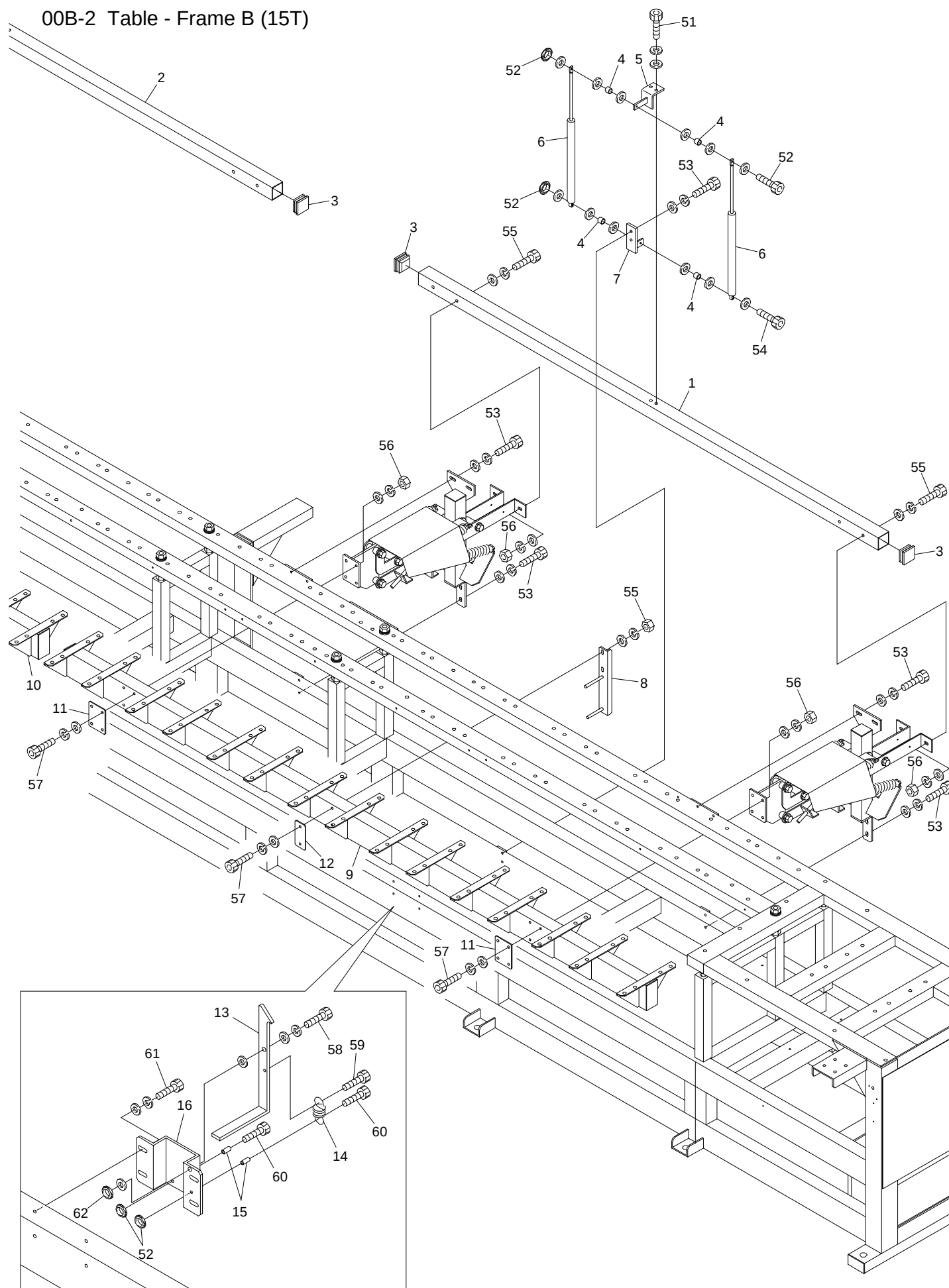


BEDSME-ZN/ZQ-A

00B-1 Table- Frame B (12T)

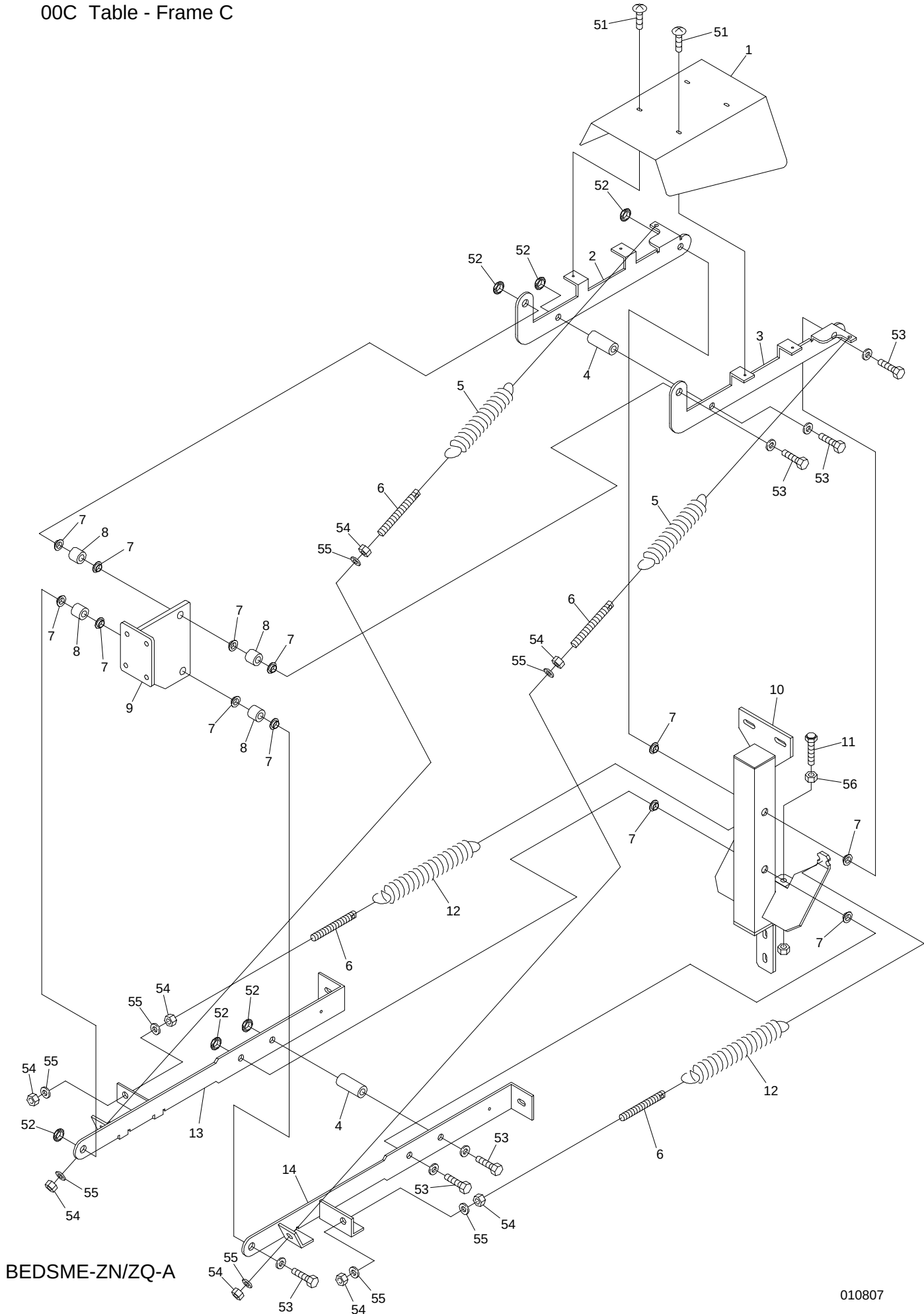
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00B-2 Table - Frame B (15T)



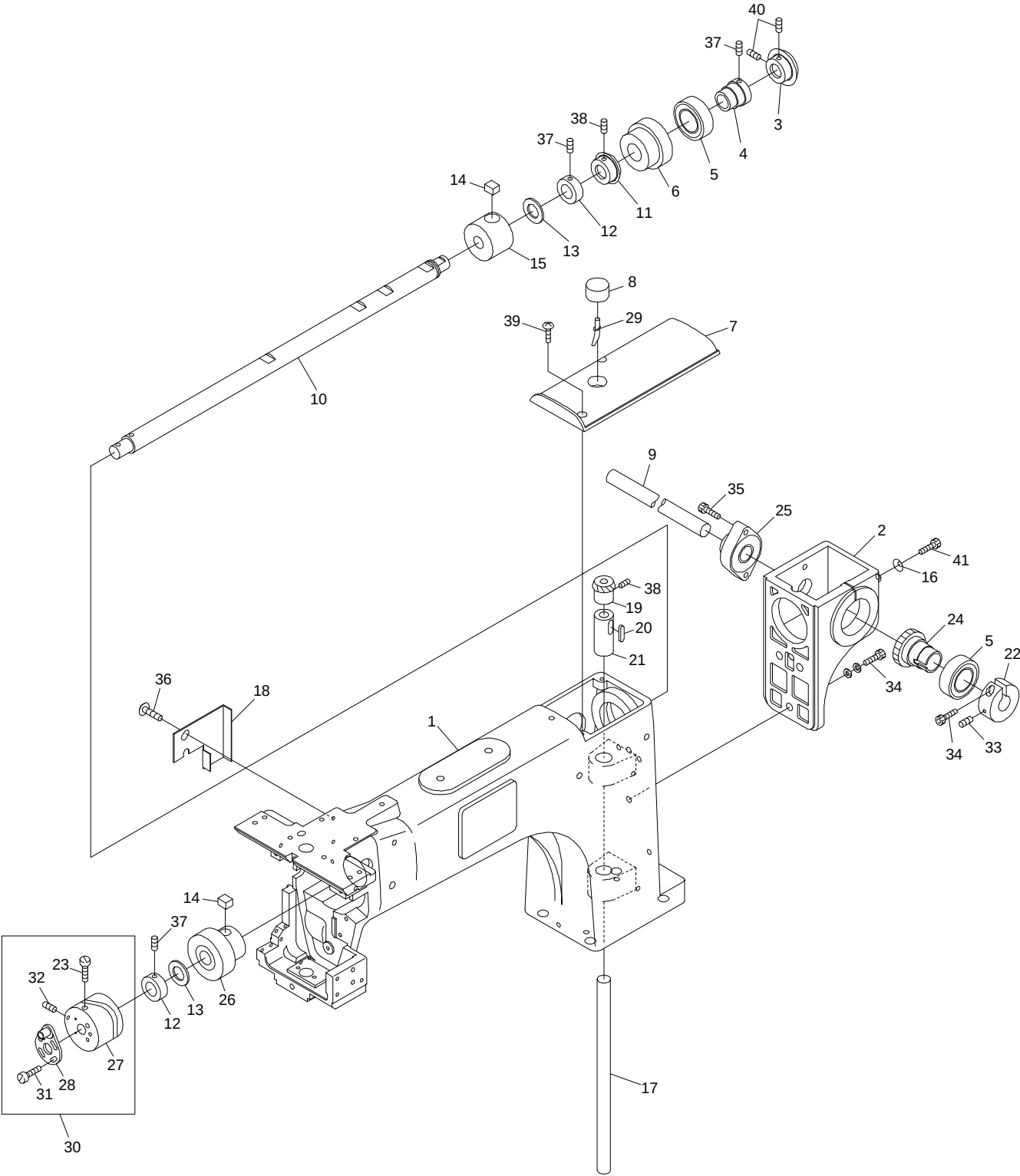
00B-2 Table- Frame B (15T)

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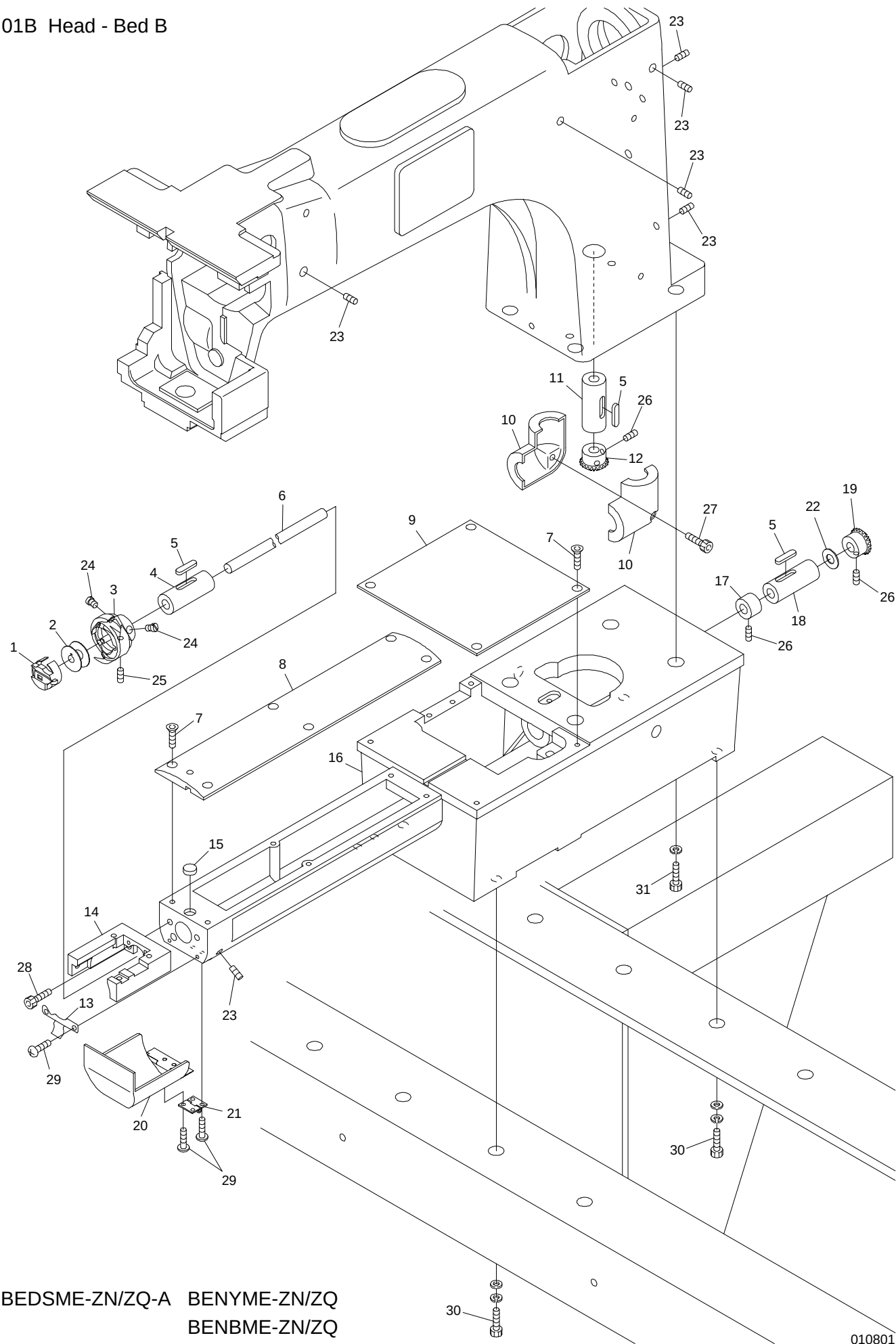
01A Head - Bed A



BEDSME-ZN/ZQ-A BENYME-ZN/ZQ
BENBME-ZN/ZQ

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	SF210010	Arm(DSME)	H×1	
2	SF210030	Arm gear case(DSME)	H×1	
3	KL220100	Upper shaft gear(Spiral bevel M1.5-25R)	H×1	
4	KL220090	Upper shaft rear bearing collar	H×1	
5	A9010017	Bearing(6004ZZ)	H×2	
6	KL220040	Upper shaft rear bearing case	H×1	
7	KL250040	Arm top cover	H×1	
8	KL220150	Oil felt D	H×1	
9	HB320070	Connecting shaft f15×3300		
10	KL220000	Upper shaft	H×1	
11	KF220130	Bevel gear(Upper shaft)	H×1	
12	KL220080	Upper shaft collar	H×2	
13	HP231390	Thrust washer(Upper shaft gear)	H×2	
14	KL220130	Oil felt B	H×2	
15	KL220030	Upper shaft middle metal	H×1	
16		Disk spring M6		
17	KL220010	Vertical shaft	H×1	
18	SF250000	Arm side cable cover	H×1	
19	KF220460	Bevel gear(Vertical shaft upper)	H×1	
20	KL220140	Oil felt C	H×1	
21	KL220050	Vertical shaft metal(Upper)	H×1	
22	KL320020	Connecting gear clamp f19	H×1	
23	KF230420	Take up lever cam set screw	H×1	
24	KL320000	connecting gear(Spiral bevel M1.5-25L)	H×1	
25	HP321140	Upper shaft connecting unit	H×1	
26	KL220020	Upper shaft front metal	H×1	
27	KB230030	Take up lever cam K6	H×1	
28	KB230050	90°crank(Phase adjust type)	H×1	
29	KC251330	Oil core L=75	H×1	
30	KB230010	Take up cam K6 90°with crank	H×1	
31	A9012007	Screw for bobbin(SM11/64 ?40×10)	H×1	
32		Set screw (SM15/64 28×10) (With adhesive)		
33		Hex.socket set screw M6×10		
34		Hex.socket bolt M6×25		
35		Hex.socket bolt M6×8(With spring washer)		
36		Truss screw M4×8		
37		Hex.socket set screw M6×6		
38		Set screw(SM1/4 40×4)		
39		Truss screw M4×10		
40		Hex.socket set screw M6×6(With adhesive)		
41		Hex.socket bolt M6×60		

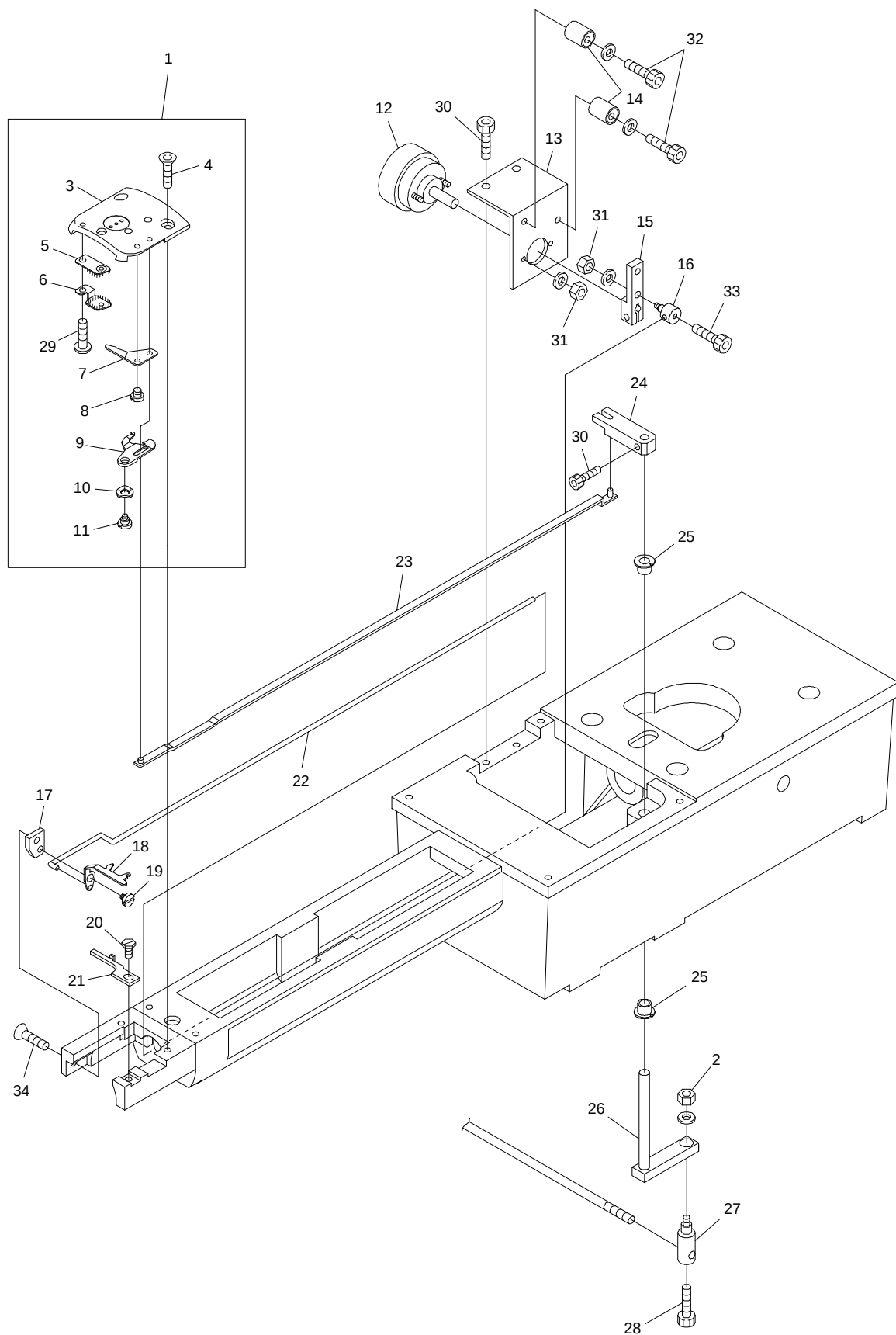
01B Head - Bed B



BEDSME-ZN/ZQ-A BENYME-ZN/ZQ
BENBME-ZN/ZQ

[illegible]

02A Thread cut A

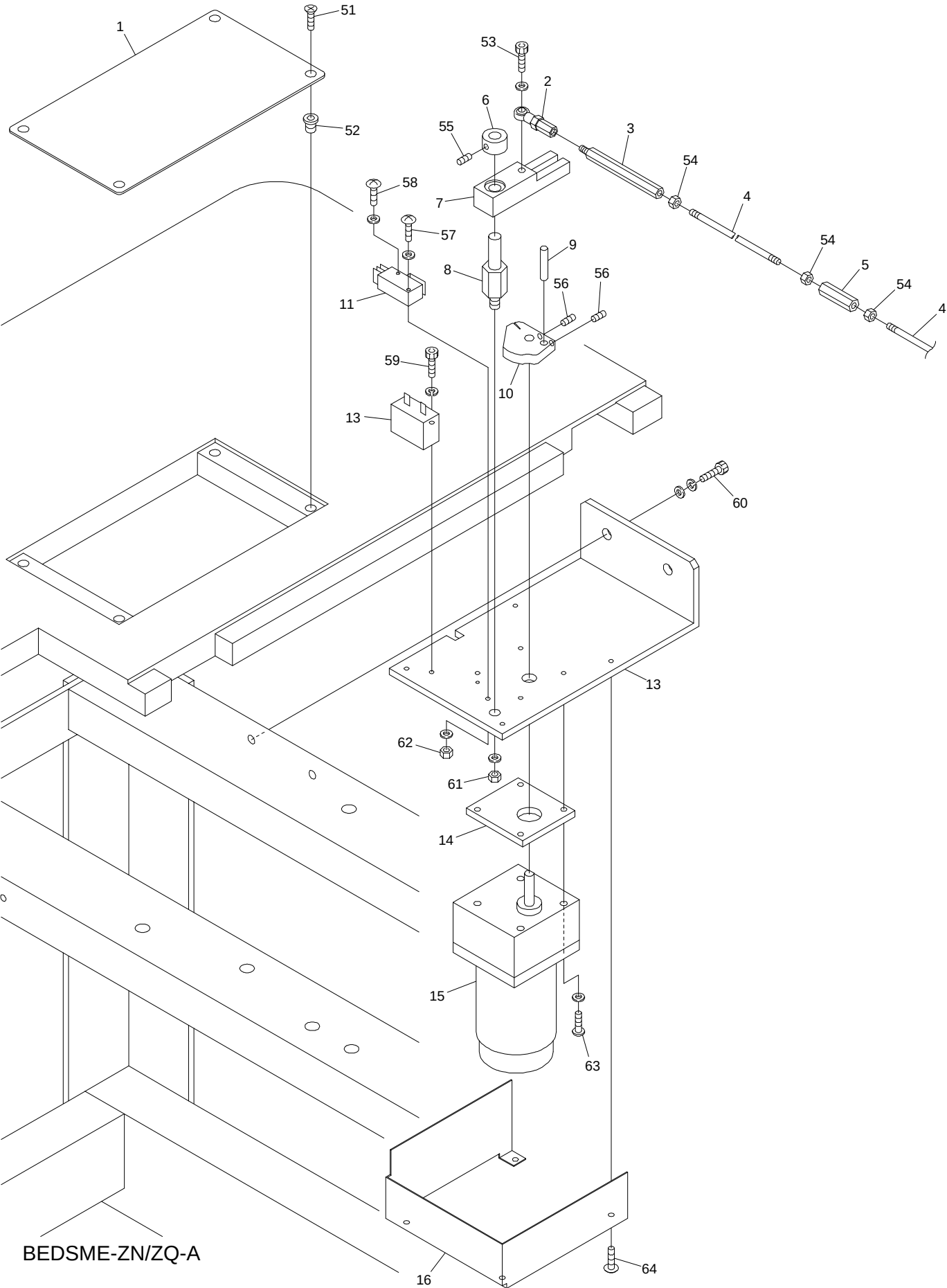


BEDSME-ZN/ZQ-A BENYME-ZN/ZQ BENT-ZN/ZQ
BENBME-ZN/ZQ

02A Thread cut A

[illegible]

02B Thread cut B

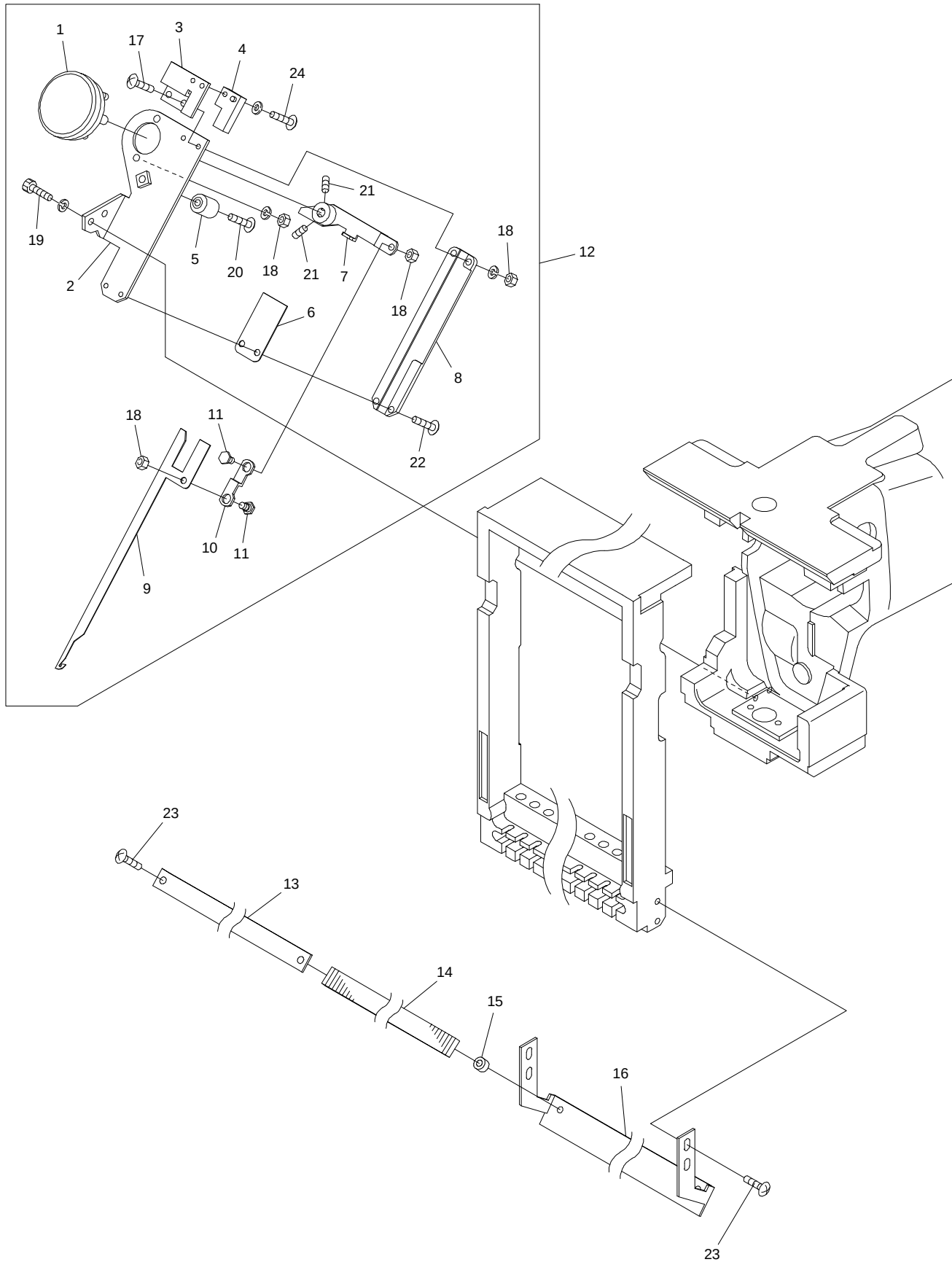


BEDSME-ZN/ZQ-A

02B Thread cut B

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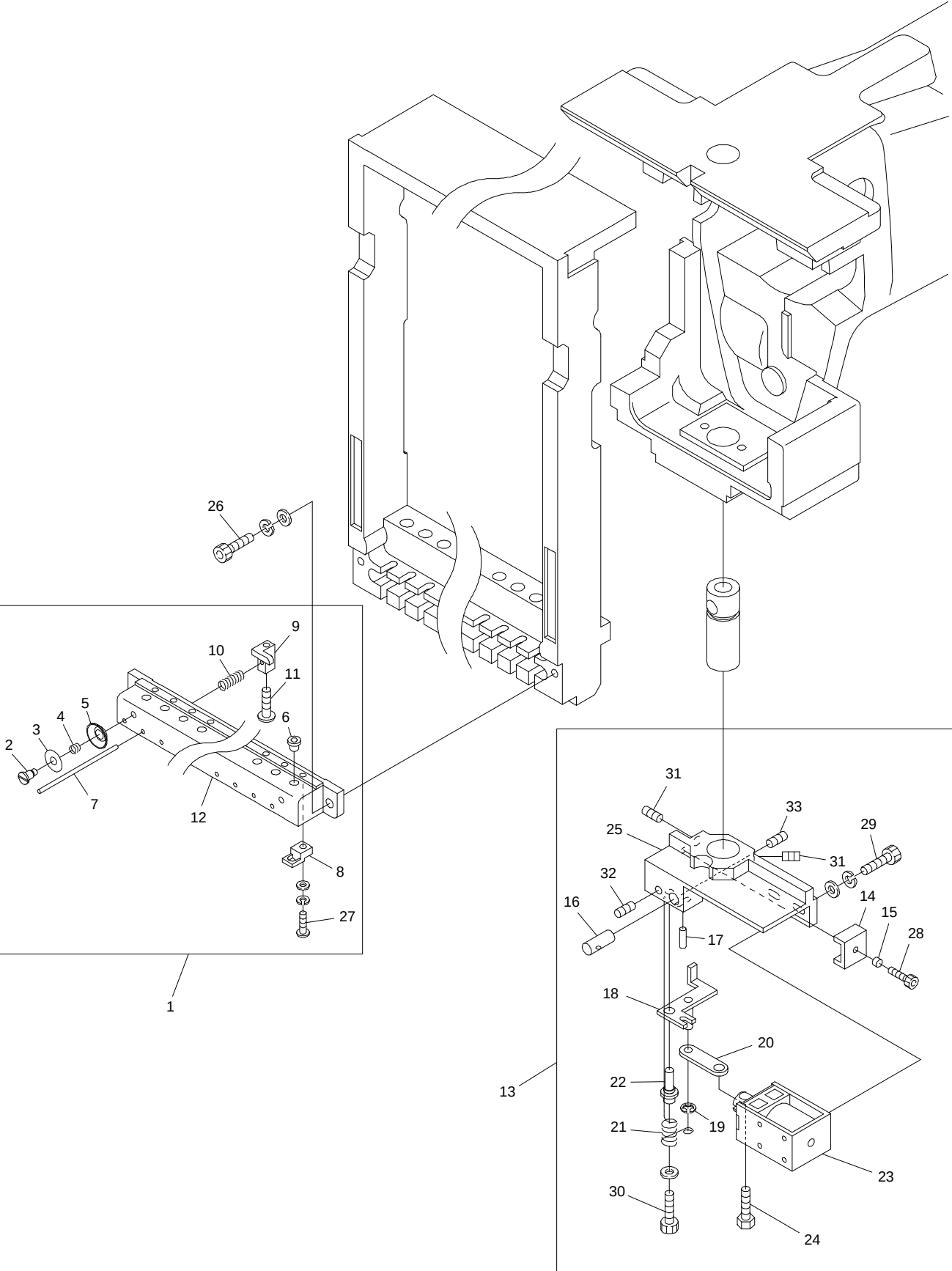
02C Thread cut C



BEDSME-ZN/ZQ-A BENYME-ZN/ZQ BENT-ZN/ZQ
BENBME-ZN/ZQ

02C Thread cut C

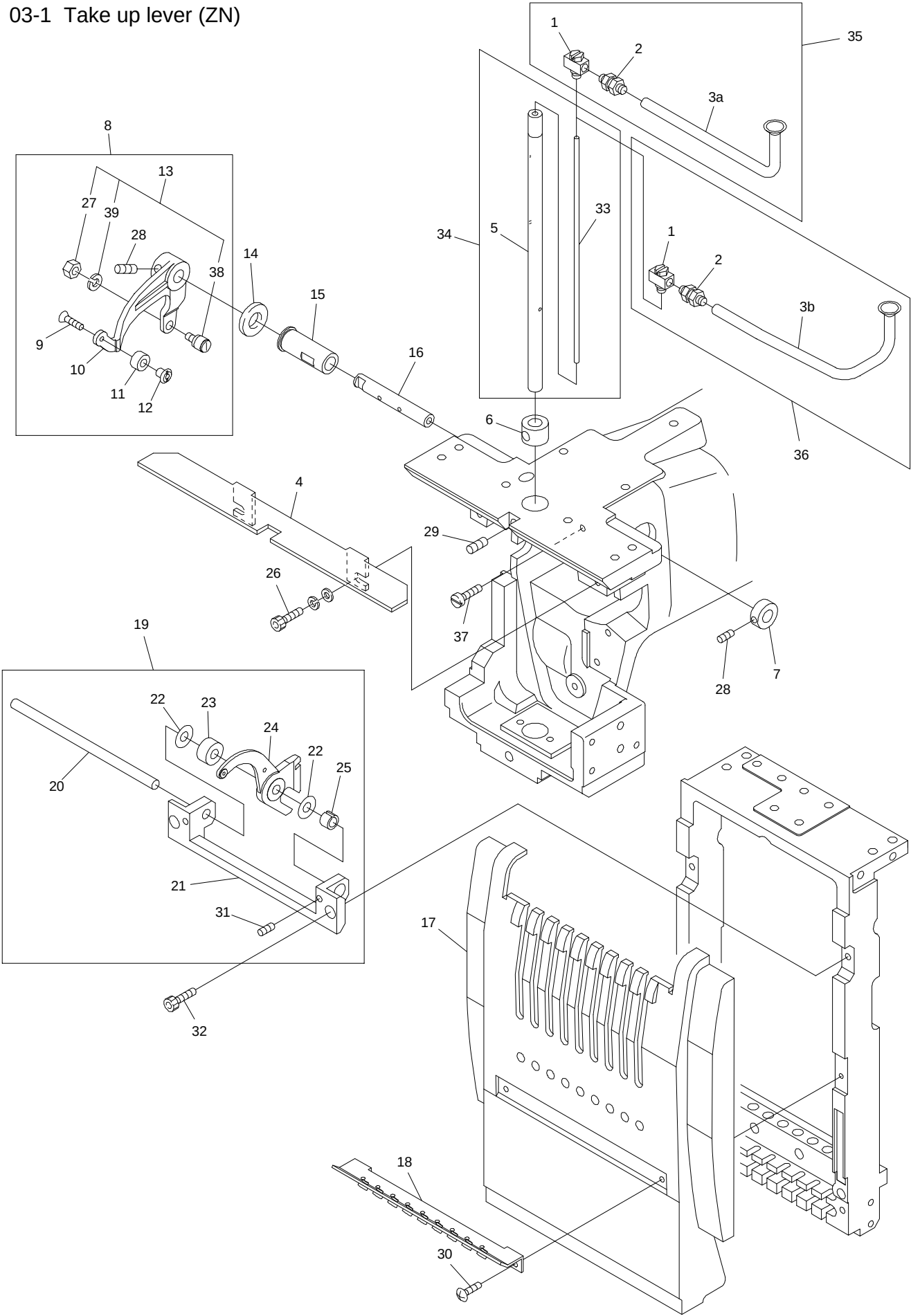
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02D Thread cut D

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03-1 Take up lever (ZN)

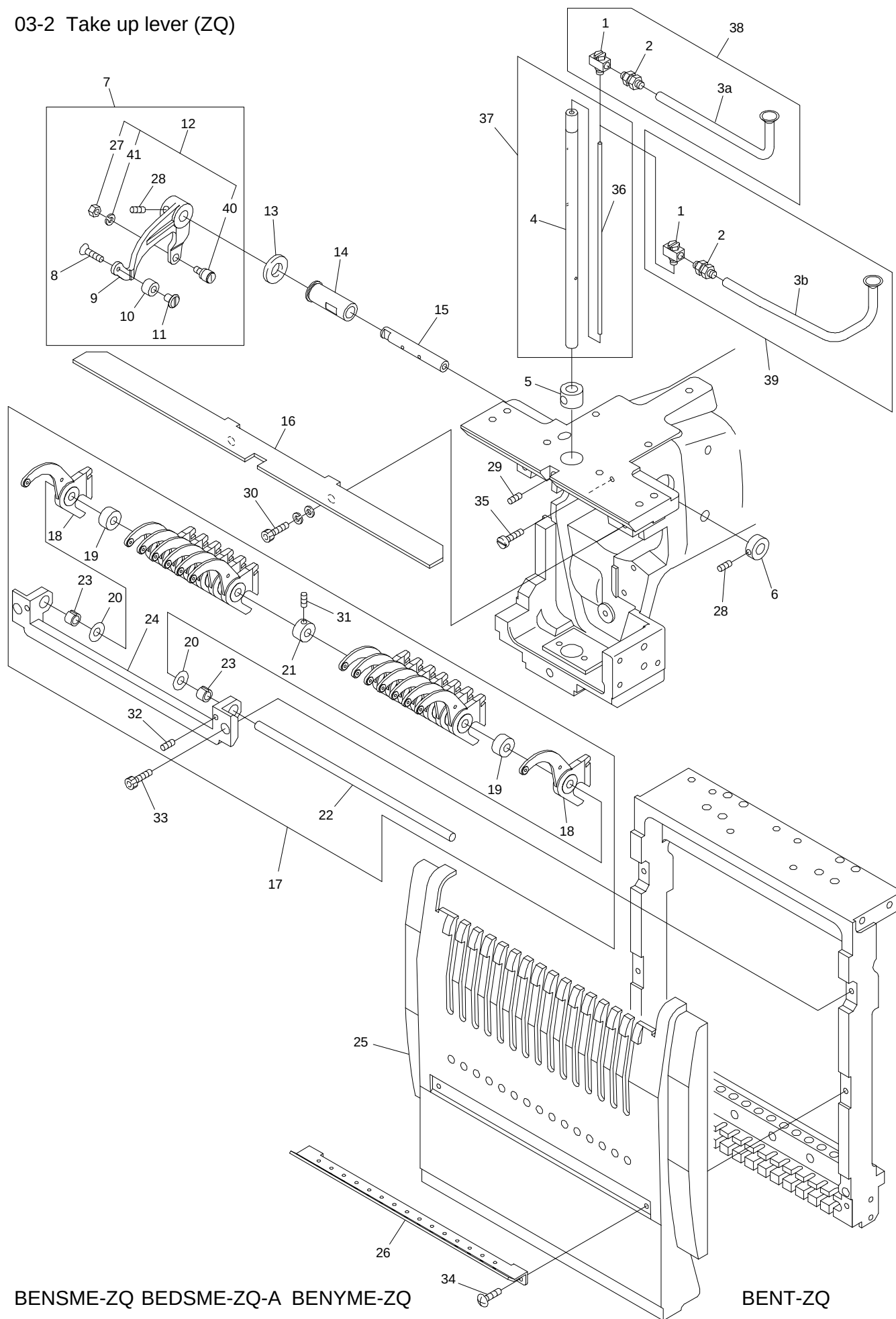


BENSME-ZN BEDSME-ZN-A BENYME-ZN BENT-ZN
BENRME-ZN BENBME-ZN

03-1 Take up lever (ZN)

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	A9075122	Universal elbow M-5UL	H×1	
2	A9075123	Universal nipple M-5UN	H×1	
3a	LA230260	Lubrication pipe	H×1	Except for NT
3b	MG230000	Drive shaft lubrication pipe	H×1	NT
4	KX230163	Stocker	H×1	
5	LA230171	Slide shaft	H×1	
6	KX230071	Slide shaft bush(Upper)	H×1	
7	HB230270	Needle bar drive lever fixing pin set collar	H×1	
8	KT230052	Take up lever drive lever a'ssy	H×1	
9	HB230650	Flush screw(With adhesion)	H×1	
10	KT230032	Take up lever driving lever	H×1	
11	HT230090	Take up lever drive roller	H×1	
12	HT230100	Take up lever drive roller shaft	H×1	
13	KF230501	Take up lever roller a'ssy	H×1	
14	A9012164	Washer(R-TW0815)	H×1	
15	KB230100	Take up lever drive shaft metal	H×1	
16	KB230110	Take up lever drive shaft	H×1	
17	SF250020	Head cover ZN-A(DSME)	H×1	
18	KX240161	Thread guard(With ceramic)	H×1	
19	KX230200	Take up lever a'ssy	H×1	
20	KX230130	Take up lever shaft	H×1	
21	KX230110	Take up lever bracket	H×1	
22	KX230310	Take up lever shim(t0.3)	H×1	
23	KX230141	Take up lever spacer	H×8	
24	KX230152	Take up lever(ZN multi)	H×9	
25	KX230120	Take up lever collar	H×1	
26		Hex.socket bolt M4×10(With washers)		
27		Hex.nut M4		
28		Hex.socket set screw M5×6(With adhesion)		
29		Hex.socket set screw M5×8		
30		Truss screw M3×10		
31		Hex.socket set screw M4×8		
32		Hex.socket bolt M4×8		
33	LA230340	Oil core	H×1	
34	LA230420	Slide shaft a'ssy	H×1	
35	LA230360	Lubrication pipe a'ssy for multi head type	H×1	Except for NT
36	MG230010	Drive shaft lubrication pipe a'ssy	H×1	NT
37		screw(SM11/64×11)		
38	KF230680	Cam followers(KR×4×7.9×15-1P×1)	H×1	
39		Spring washer M4		

03-2 Take up lever (ZQ)



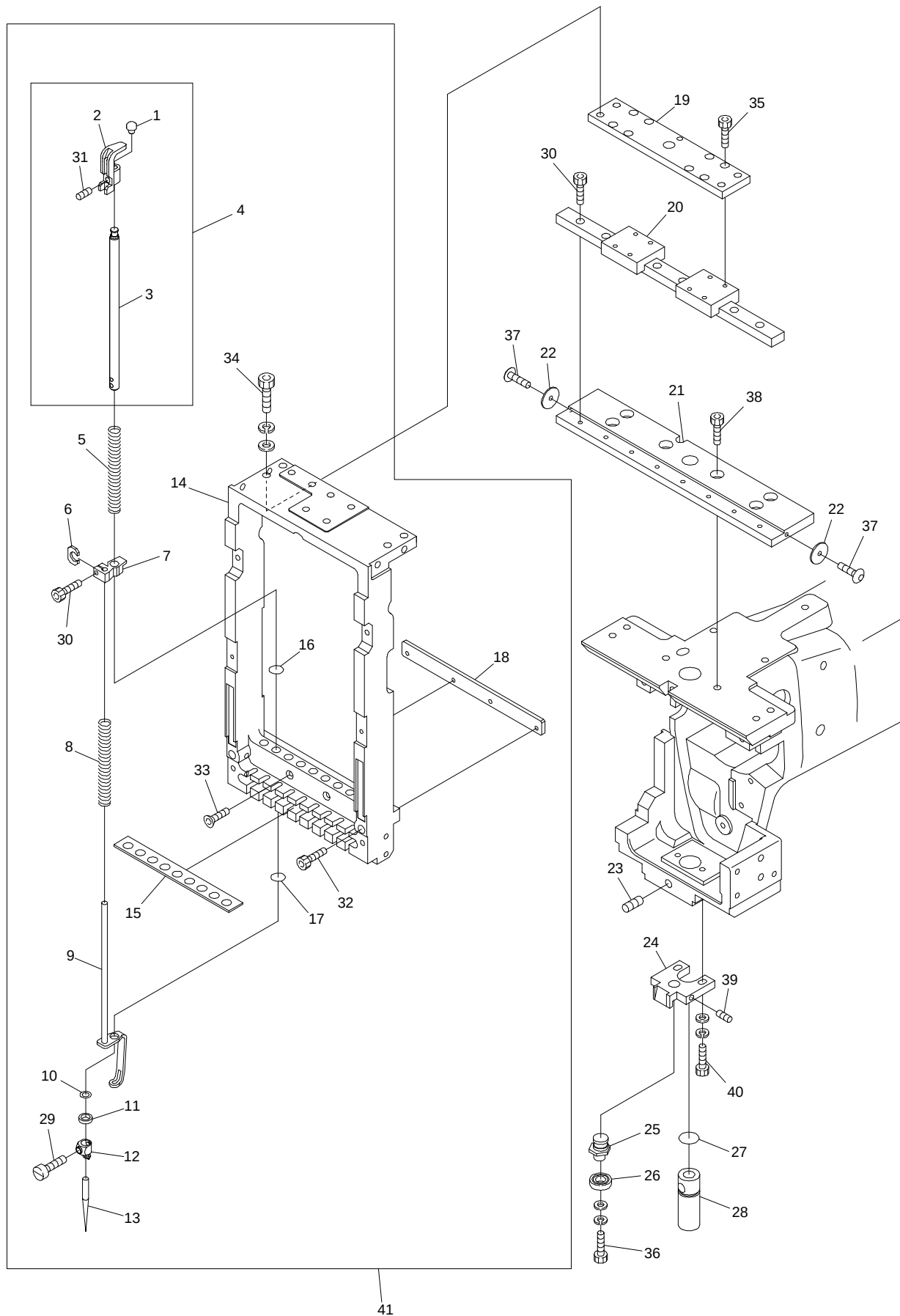
BENSME-ZQ BEDSME-ZQ-A BENYME-ZQ
BENRME-ZQ BENBME-ZQ

BENT-ZQ

03-2 Take up lever (ZQ)

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	A9075122	Universal elbow M-5UL	H×1	
2	A9075123	Universal nipple M-5UN	H×1	
3a	LA230260	Lubrication pipe	H×1	Except for NT
3b	MG230000	Drive shaft lubrication pipe	H×1	NT
4	LA230171	Slide shaft	H×1	
5	KX230071	Slide shaft bush(Upper)	H×1	
6	HB230270	Needle bar drive lever fixing collar	H×1	
7	KT230052	Take up lever drive lever a'ssy	H×1	
8	HB230650	Flush screw(With adhesion)	H×1	
9	KT230032	Take up lever drive lever	H×1	
10	RD230120	Take up lever drive roller	H×1	
11	RD230130	Take up lever drive roller shaft	H×1	
12	KF230501	Take up lever rollar a'ssy	H×1	
13	A9012164	Washer(R-TW0815)	H×1	
14	KB230100	Take up lever drive shaft metal	H×1	
15	KB230110	Take up lever drive shaft	H×1	
16	LA230251	Stocker	H×1	
17	LA230410	Take up lever a'ssy(ZQ-A)	H×1	
18	KX230152	Take up lever(ZN multi)	H×15	
19	KX230141	Take up lever spacer	H×13	
20	KX230310	Take up lever shim(t0.3)	H×2	
21	RD230201	Take up lever spacer collar	H×1	
22	RD230080	Take up lever shaft	H×1	
23	KX230120	Take up lever collar	H×1	
24	LA230281	Take up lever bracket	H×1	
25	SF250050	Head cover ZQ-A(DSME)	H×1	
26	RD240271	Thread guard(With guide)	H×1	
27		Hex.nut M4		
28		Hex.socket set screw M5×6(With adhesion)		
29		Hex.socket set screw M5×8		
30		Hex.socket bolt M4×10(With washers)		
31		Hex.socket set screw M4×4		
32		Hex.socket set screw M4×8		
33		Hex.socket bolt M4×8		
34		Truss screw M3×10		
35		screw(SM11/64×11)		
36	LA230340	Oil core	H×1	
37	LA230420	Slide shaft a'ssy	H×1	
38	LA230360	Lubrication pipe a'ssy for multi head type	H×1	Except for NT
39	MG230010	Drive shaft lubrication pipe a'ssy	H×1	NT
40	KF230680	Cam followers(KR×4×7.9×15-1P×1)	H×1	
41		Spring washer M4		

04A-1 Needle bar A (ZN)

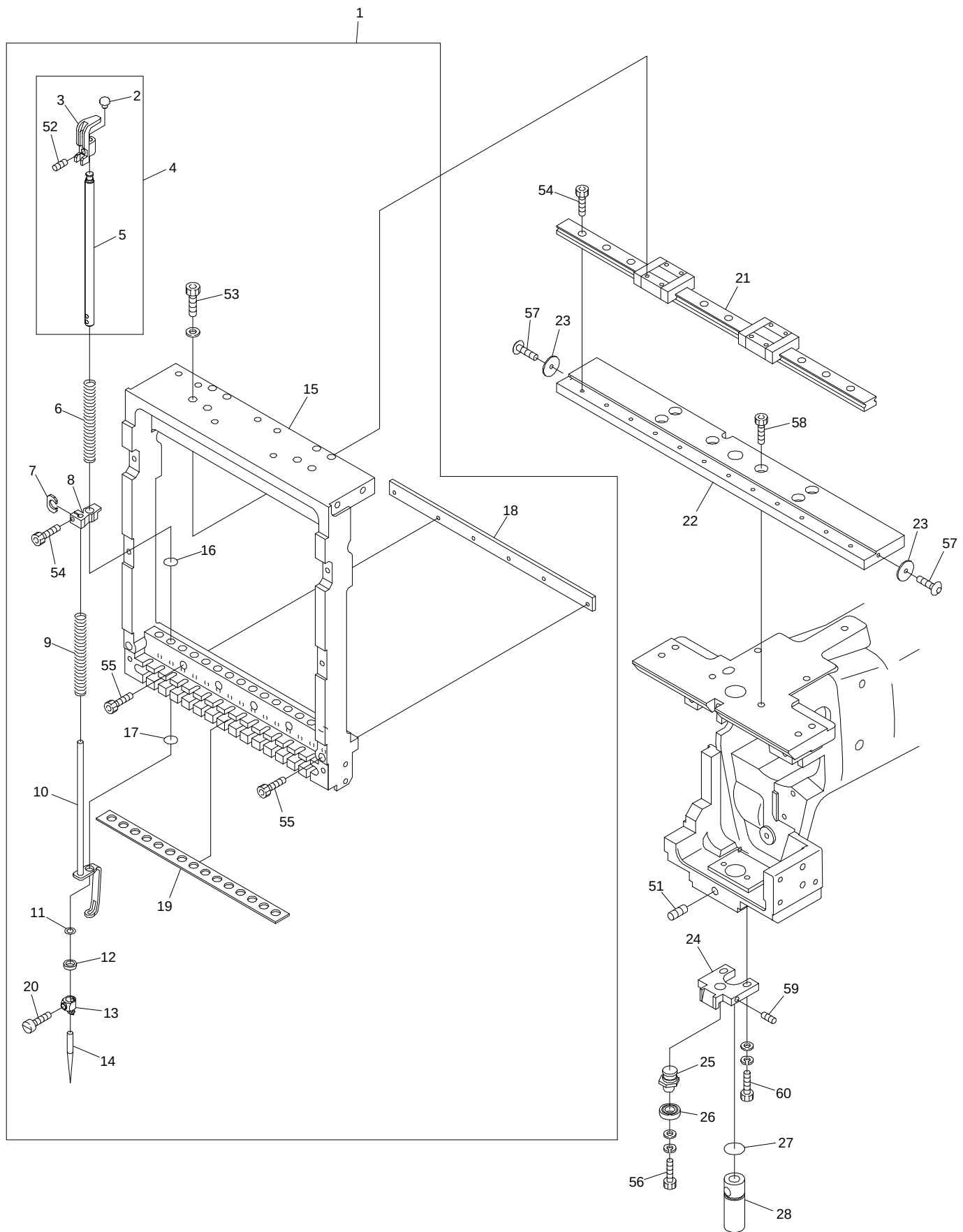


BENSME-ZN BEDSME-ZN-A BENYME-ZN BENT-ZN
BENRME-ZN BENBME-ZN

04A-1 Needle bar A (ZN)

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	HT230130	Needle bar cap	H×9	
2	HT230151	Needle bar guide	H×9	
3	HT230041	Needle bar	H×9	
4	HT230810	Needle bar a'ssy	H×9	
5	HT230251	Needle bar spring(Upper)	H×9	
6	HT230263	Washer for set clamp	H×9	
7	HT230330	Cloth winder stop latch set clamp	H×9	
8	KX230251	Needle bar spring(Lower)	H×9	
9	HT230143	Pressure foot	H×9	
10	KF230910	O-ring(AN6227-5)	H×9	
11	HT230120	Washer 2.4(YN)	H×9	
12	HT230670	Needle clamp(With hook)	H×9	
13	KF230250	Needle(DBK5-11)	H×9	
14	KX230283	Slide block	H×1	
15	KX230180	Needle bar felt	H×1	
16	A9014055	O-ring(1-AS-7)	H×9	
17	KF230920	O-ring(P7)	H×9	
18	KX230040	Bearing plate	H×1	
19	KX230010	LM base	H×1	
20	KX230060	LM guide	H×1	
21	KX230023	Base plate	H×1	
22	KX230192	LM stopper	H×2	
23		Hex.socket set screw M5×8	H×2	
24	LA230140	Bearing guide	H×1	
25	KX230050	Bearing pin	H×1	
26	A9010065	Ball bearing 686zz	H×1	
27	A9019037	O-ring(Bush lower S12.5 NOK)	H×1	
28	LA230080	Slide shaft bush(Lower)	H×1	
29	KF230240	Needle clamp screw(SM9/64 40)	H×9	
30		Hex.socket bolt M3×8		
31		Hex.socket set screw M4×4		
32		Hex.socket bolt M3×25		
33		Hex.socket flush screw M3×25		
34		Hex.socket bolt M5×16(With washers)		
35		Hex.socket bolt M3×6		
36		Hex.socket bolt M4×6(With washers)		
37		Hex.socket button bolt M3×6		
38		Hex.socket bolt M5×12		
39		Hex.socket set screw(Dog point) M4×12		
40		Hex.socket bolt M4×15(With washers)		
41	LA230321	Slide block a'ssy	H×1	

04A-2 Needle bar A (ZQ)

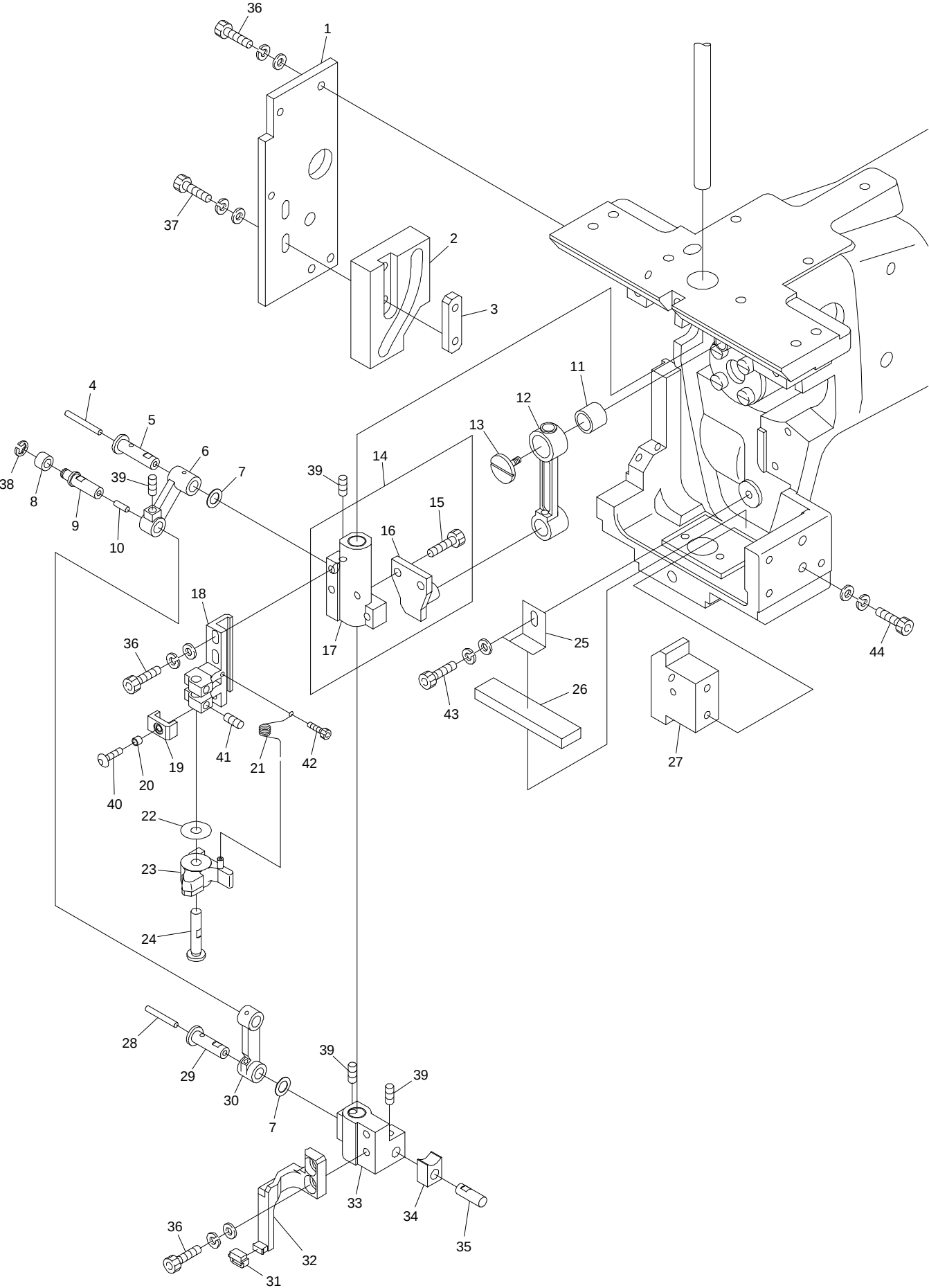


BENSME-ZQ BEDSME-ZQ-A BENYME-ZQ BENT-ZQ
 BENRME-ZQ BENBME-ZQ

04A-2 Needle bar A (ZQ)

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04B Needle bar B

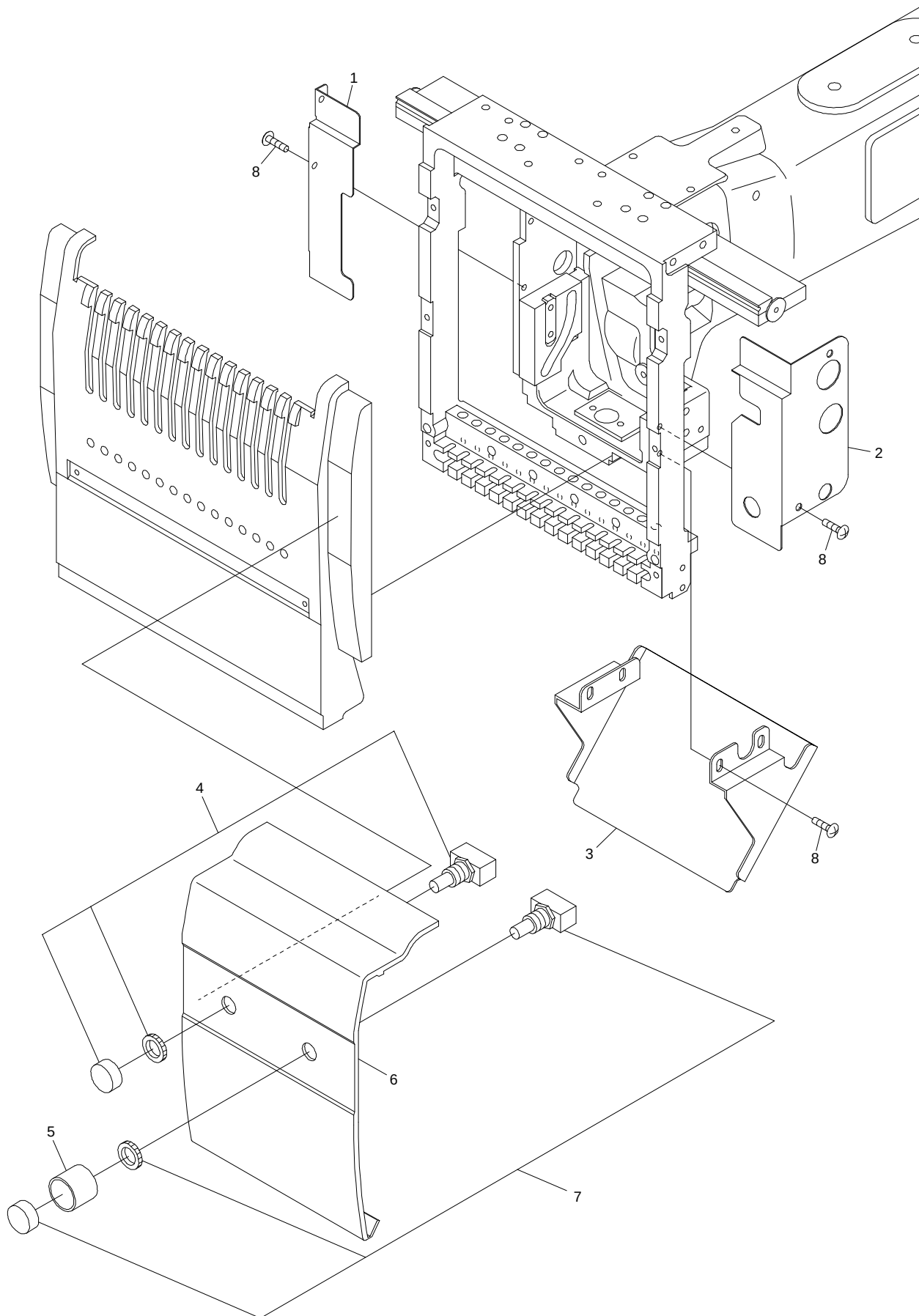


BENSME-ZN/ZQ BEDSME-ZN/ZQ-A BENYME-ZN/ZQ BENT-ZN/ZQ
BENRME-ZN/ZQ BENBME-ZN/ZQ

04B Needle bar B

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	LA230100	Presser foot cam plate	H×1	
2	LA230150	Presser foot cam	H×1	
3	HT230380	Cam tap plate	H×1	
4	LA230290	Oil core(23mm)	H×1	
5	LA230110	Link pin(Upper)	H×1	
6	LA230040	Link(Upper)	H×1	
7	HT230730	Shim ring(10 t=0.3)	H×2	
8	KF230530	Roller(For take up lever)	H×1	
9	LA230130	Link roller joint pin	H×1	
10	HT230760	Oil core(8mm)	H×1	
11	A9011115	Needle bearing(K9×12×10T2)	H×1	
12	LA230060	Crank rod	H×1	
13	KB230070	90°crank counter clockwise screw	H×1	
14	LA230030	Driver slide a'ssy	H×1	
15	A9019036	Hex.socket bolt M4×10(With mech)	H×2	
16	LA230020	Driver slide pin	H×1	
17	LA230010	Driver slide	H×1	
18	LB230070	Needle bar driver fixing base	H×1	
19	HT230520	Needle bar driver stopper	H×1	
20	A9012368	Spacer(Roll bush)	H×1	
21	HT230560	Needle bar driver return spring	H×1	
22	A9012367	Shim ring(15 t=0.15)	H×1	
23	HT230531	Needle bar driver	H×1	
24	HT230280	Needle bar driver pin	H×1	
25	LA230200	Felt plate	H×1	
26	LA230210	Felt(Oil cleaner)	H×1	
27	LA230160	Guide box	H×1	
28	HT230770	Oil core(20mm)	H×1	
29	LA230120	Link pin(Lower)	H×1	
30	LA230050	Link(Lower)	H×1	
31	HT230340	Presser foot support rubber	H×1	
32	HT230370	Presser foot support	H×1	
33	LA230070	Presser foot slide	H×1	
34	HP231370	Square ball	H×1	
35	LA230090	Square ball pin	H×1	
36		Hex.socket bolt M4×12		
37		Hex.socket bolt M4×20		
38		E-ring(3 dia.)		
39		Hex.socket set screw M4×6(With nylon)		
40		Hex.socket button bolt M3×6		
41		Hex.socket set screw M4×4(With nylon)		
42		Hex.socket bolt M2.5×6		
43		Hex.socket bolt M4×8		
44		Hex.socket bolt M4×16		

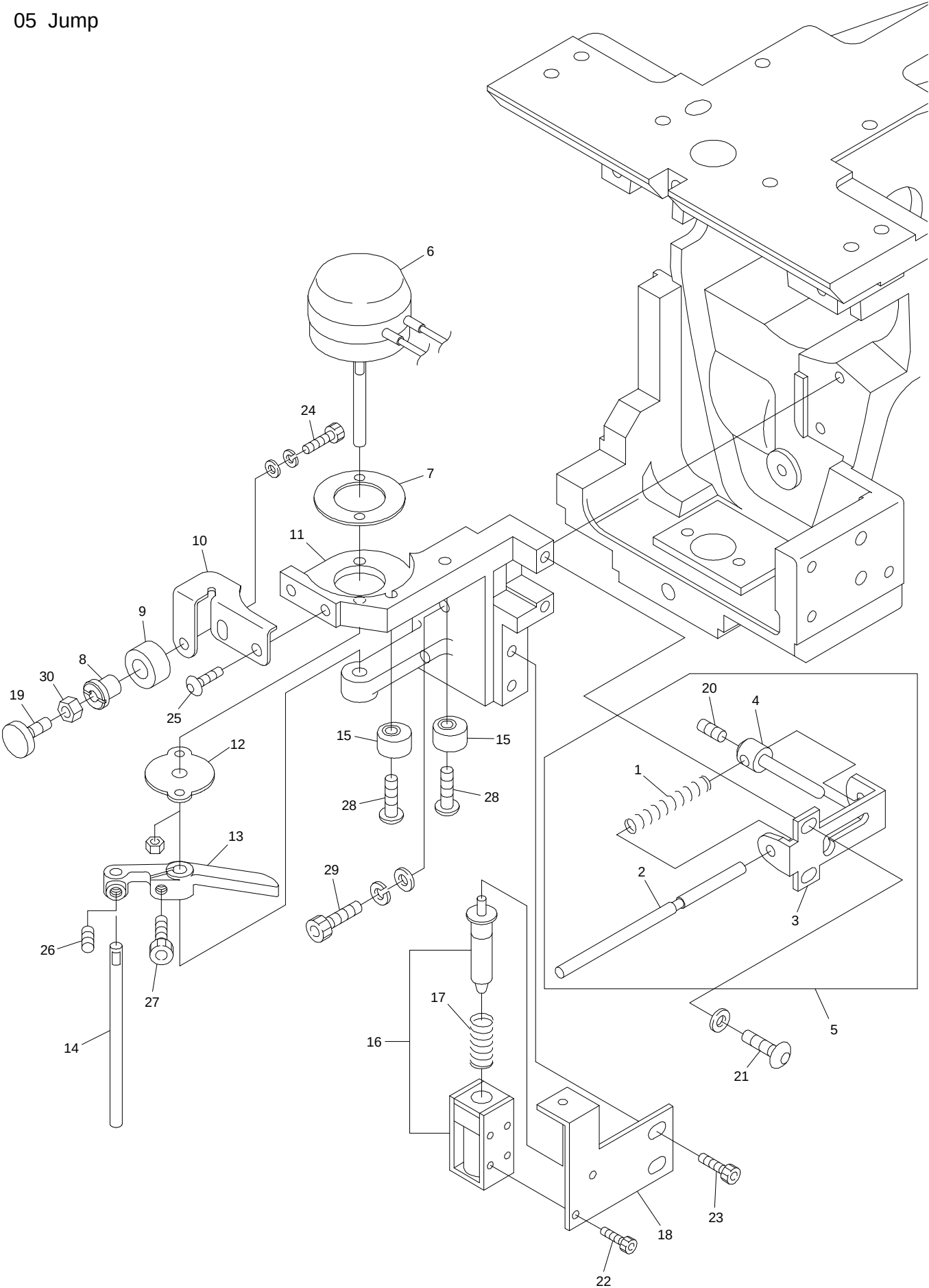
04C Needle bar C



BENSME-ZN/ZQ BEDSME-ZN/ZQ-A BENYME-ZN/ZQ BENT-ZN/ZQ
 BENRME-ZN/ZQ BENBME-ZN/ZQ

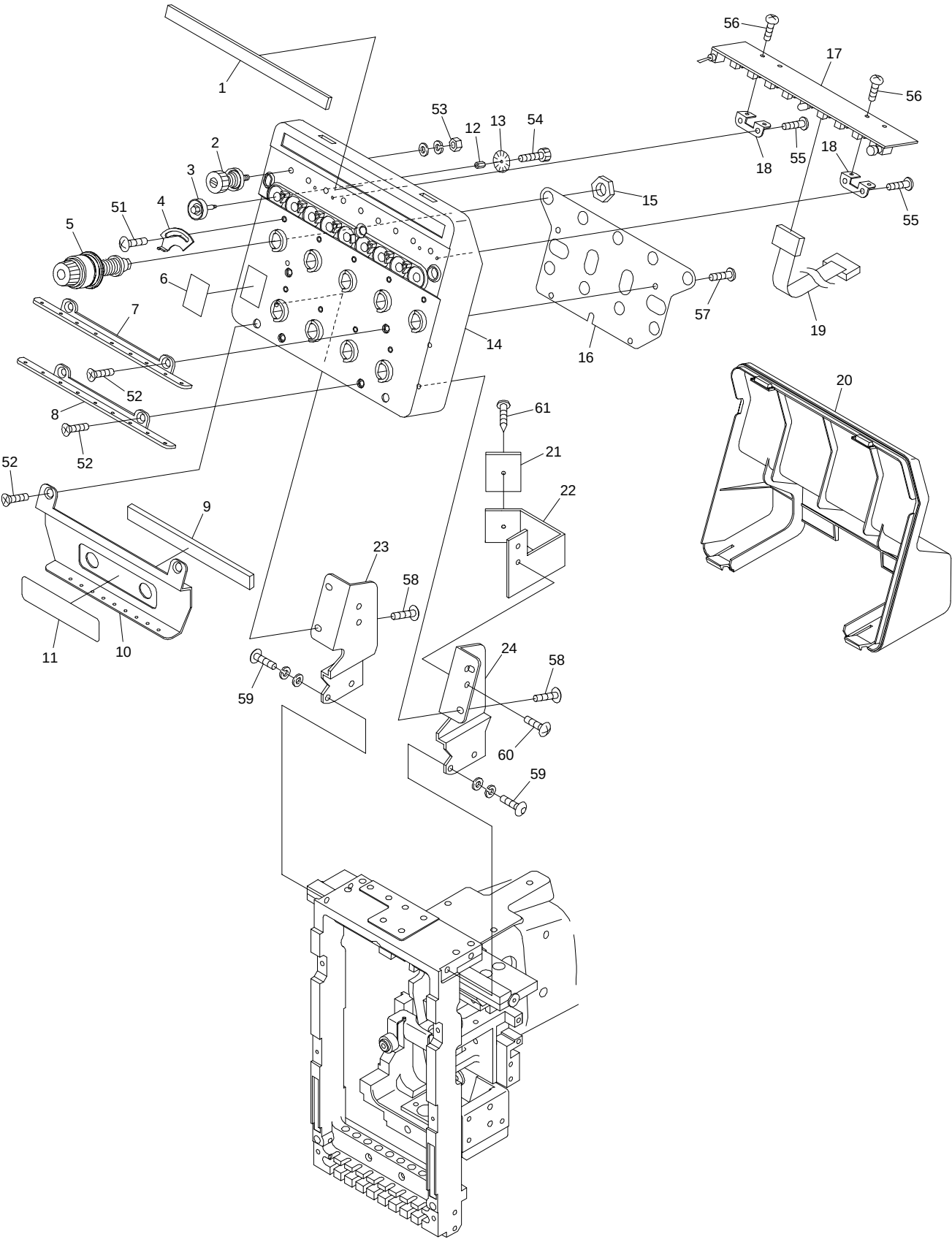
04C Needle bar C

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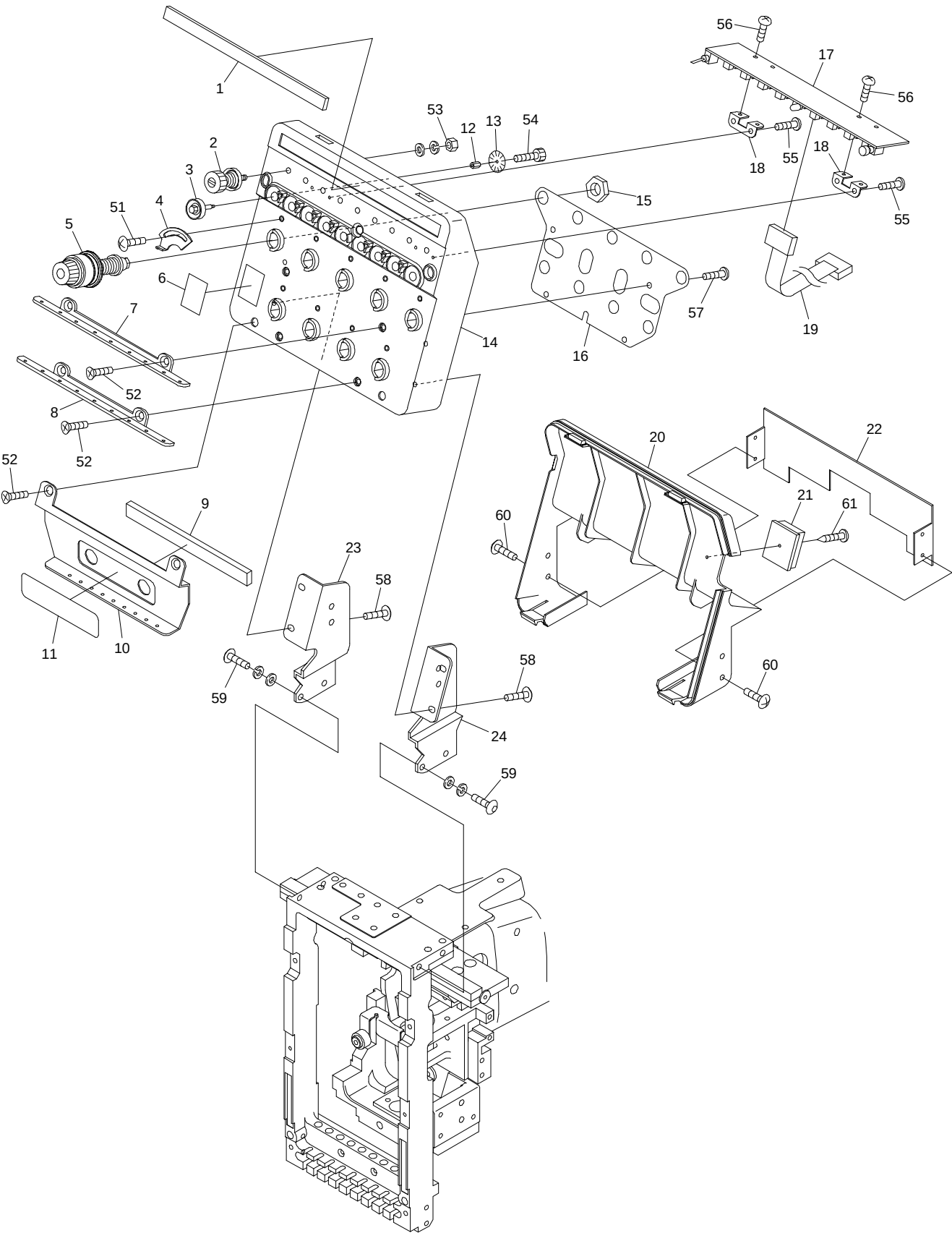
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06A-1-1 Thread guide A (Standard)(ZN)(General head)



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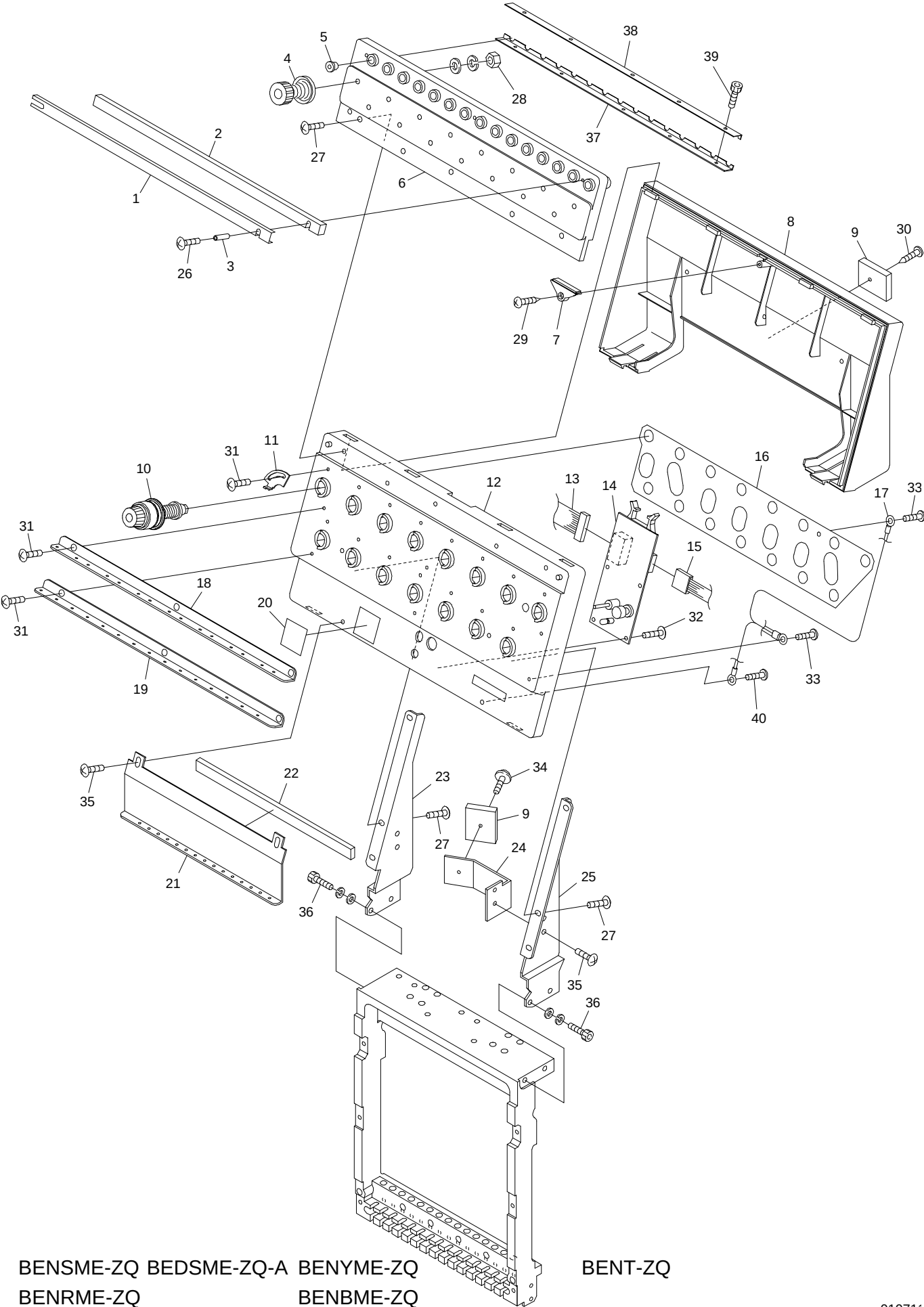
06A-1-2 Thread guide A (Standard)(ZN)(Head with color change mechanism)



06A-1-2 Thread guide A (Standard) (ZN) (Head with color change mechanism)

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06A-2 Thread guide A (Standard)(ZQ)



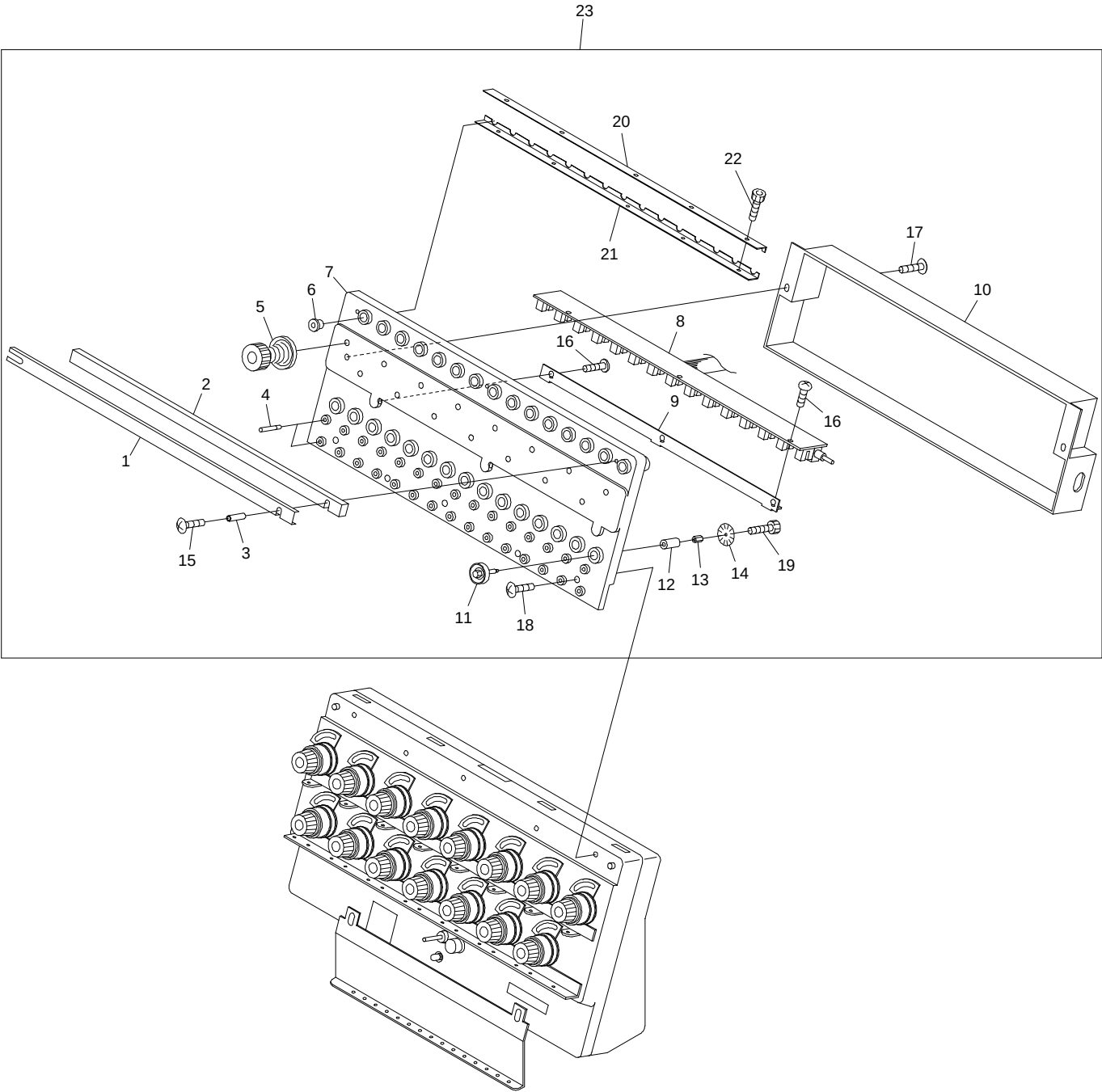
BENSME-ZQ BEDSME-ZQ-A BENYME-ZQ
BENRME-ZQ BENBME-ZQ

BENT-ZQ

06A-2 Thread guide A (Standard)(ZQ)

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	RD240291	Felt shaft	H×1	
2	RD240301	Felt	H×1	
3	A9012412	Spacer(f3×17L)	H×2	
4	RD240321	Thread tension a'ssy(ZQ)	H×15	
5	HT240480	Thread collar(For thread stand,white)	H×15	
6	RD240280	Thread tension base	H×1	
7	HT240240	Blind cap	H×1	
8	RD240030	Tension cover(For 15 needle)	H×1	
9	A9068032	FCW clamp(FCW-26)	H×1 H×2	NT Except for NT
10	RD240153	Dial thread tension unit complete(BEMAX)	H×15	
11	RD240111	Thread spring adjusting plate	H×15	
12	RD240022	Tension base case a'ssy	H×1	
13	EBY01690	H1899 pin pin cable	H×1	
14	EBY01641	4640 head switch board(With BEMAX cable)	H×1	
15	EBY01700	H1900 additional pin pin cable	H×1	
16	RD240121	Tension earth plate	H×1	
17	A9053077	Tension base earth cable ZQ	H×1	
18	RD240330	First thread guide plate(ZQ-A)	H×1	
19	RD240340	Second thread guide plate(ZQ-A)	H×1	
20		Number label	H×1	Except for NT
21	LA240030	Second thread guide	H×1	
22	LA240040	Sponge rubber	H×1	
23	MG240010	Tension base(L)	H×1	
24	RD240090	Cord holder	H×1	Except for NT
25	MG240000	Tension base(R)	H×1	
26		Truss screw M3×25		
27		Truss screw M4×10		
28		Hex.nut SM11/64		
29		Tapping screw f3×12		
30		Tapping pan screw f3×25		
31		Truss screw M3×5		
32		Truss screw M3×6		
33		Pan screw M3×6		
34		Pan screw for flange M3×8		Except for NT
35		Truss screw M4×6		
36		Hex.socket bolt M5×10(With washers)		
37	RD240440	Tube holder(Lower)	H×1	
38	RD240430	Tube holder(Upper)	H×1	
39		Hex.socket bolt M3×15		
40		Pan screw M4×6		

06B Thread guide B (Lower thread sensorium)(ZQ)



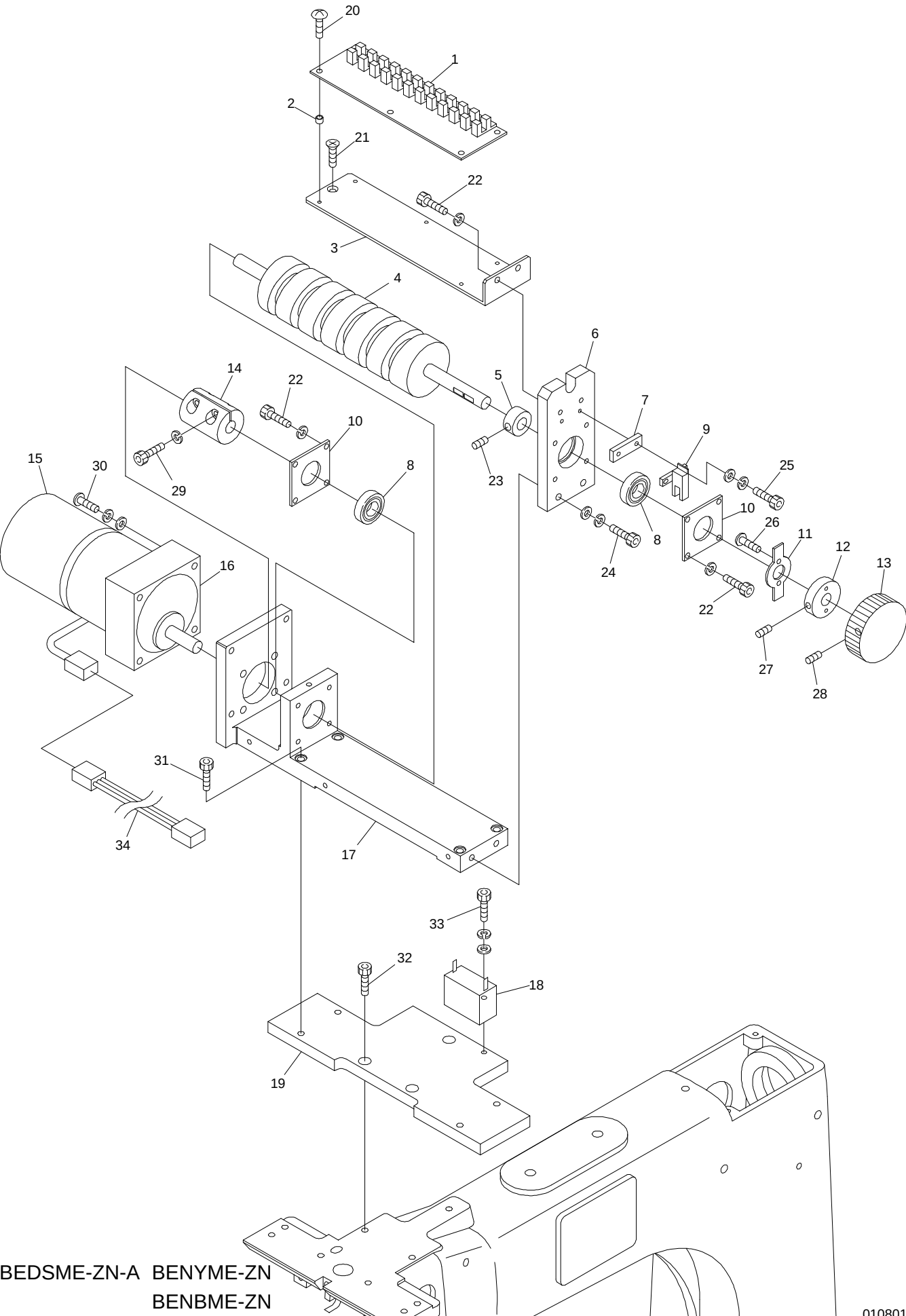
BENSME-ZQ BEDSME-ZQ-A BENYME-ZQ BENT-ZQ
BENRME-ZQ BENBME-ZQ

06B Thread guide B (Lower thread sensorium)(ZQ)

(H=Head Q'TY)

[illegible]

07A-1 Color change A(ZN)

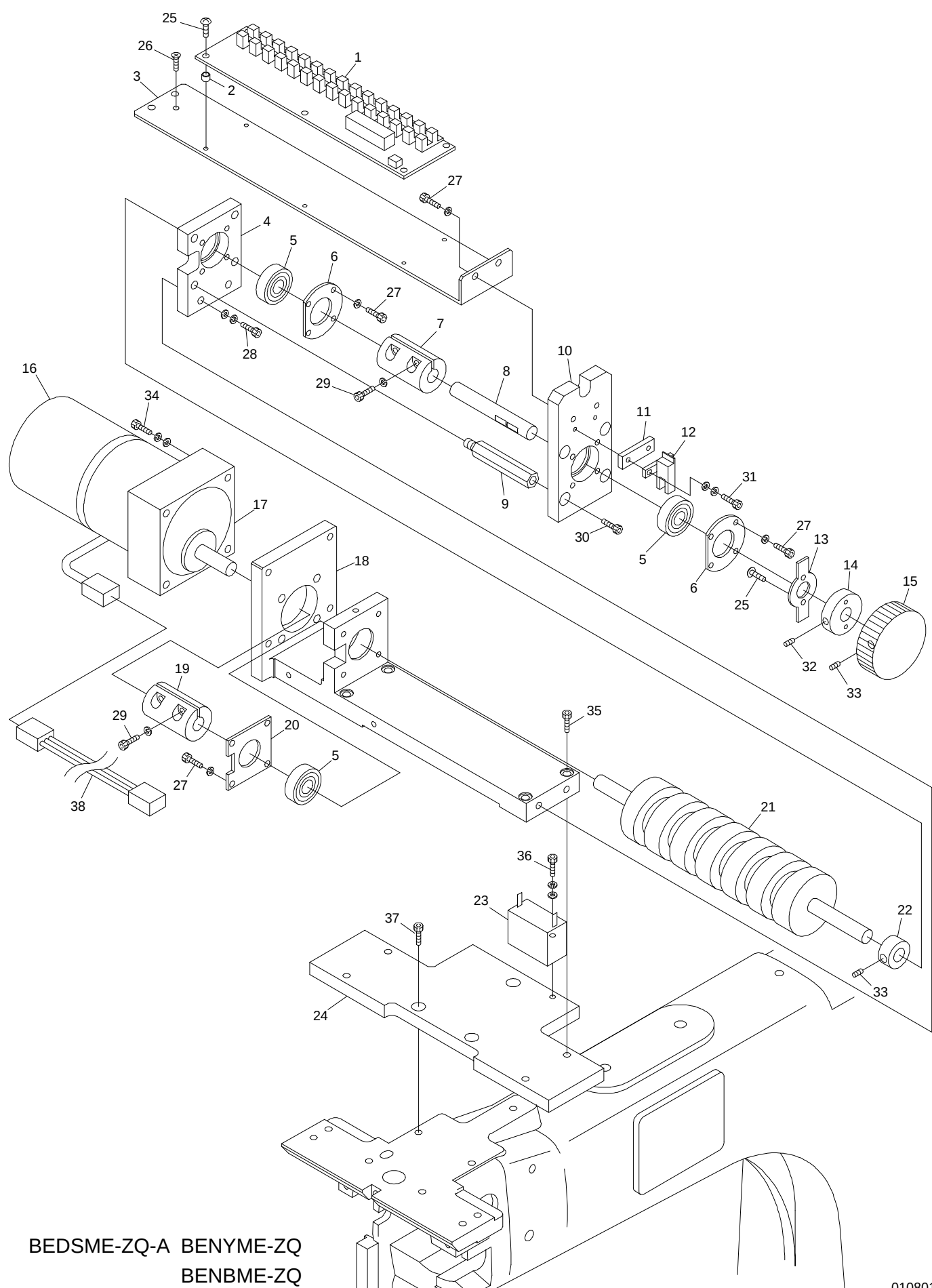


BEDSME-ZN-A BENYME-ZN
BENBME-ZN

07A-1 Color change A (ZN)

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	EBY01623	3370 Needle positioner board (ZN)	1	
2	A9012208	Spacer(Roll bush) 5×4L	5	
3	KX330300	Color change board base plate	1	
4	KX330060	Color change cam	1	
5	KX330120	Bearing hold collar	1	
6	LA330170	Color change side plate(ZN-A)	1	
7	KX330250	Sensor spacer	1	
8	A9010062	Bearing 6000ZZ	2	
9	A9060063	Photo micro sensor EE-SX672A(OMRON)	1	
10	KX330110	Bearing hold	2	
11	KX330271	Rotation sensor dock	1	
12	KC330170	Detection plate collar	1	
13	KX330130	Manual knob	1	
14	RD330020	Motor coupling	1	6T max.
	RD330030	Coupling	1	8T min.
15	A9065092	Reversible motor 3RJ10GB-AUL-E4	1	6T max.
	A9065078	Reversible motor 3RK15GN-AUL-E13	1	8T min.
16	A9065093	Gear head 3GB18K	1	6T max.
	A9065079	Gear head 3GN18K	1	8T min.
17	LA330151	Color change base(ZN-A)	1	
18	A9054022	Condenser CH45UL	1	6T max.
	A9054023	Condenser CH60UL	1	8T min.
19	LA330120	Color change base plate	1	
20		Truss screw M3×10		
21		Flush screw M4×6		
22		Hex.socket bolt M4×10(With spring washer)		
23		Hex.socket set screw M6×5		
24		Hex.socket bolt M5×25(With washers)		
25		Hex.socket bolt M3×16(With washers)		
26		Truss screw M4×8		
27		Hex.socket set screw M5×10		
28		Hex.socket set screw M6×6		
29		Hex.socket bolt M4×15(With spring washer)		
30		Pan screw M4×60(With spring washer)		
31		Hex.socket bolt M5×25		
32		Hex.socket bolt M5×18		
33		Hex.socket bolt M4×10(With washers)		
34	LA510030	Between cable with color change motor	1	

07A-2 Color change A(ZQ)

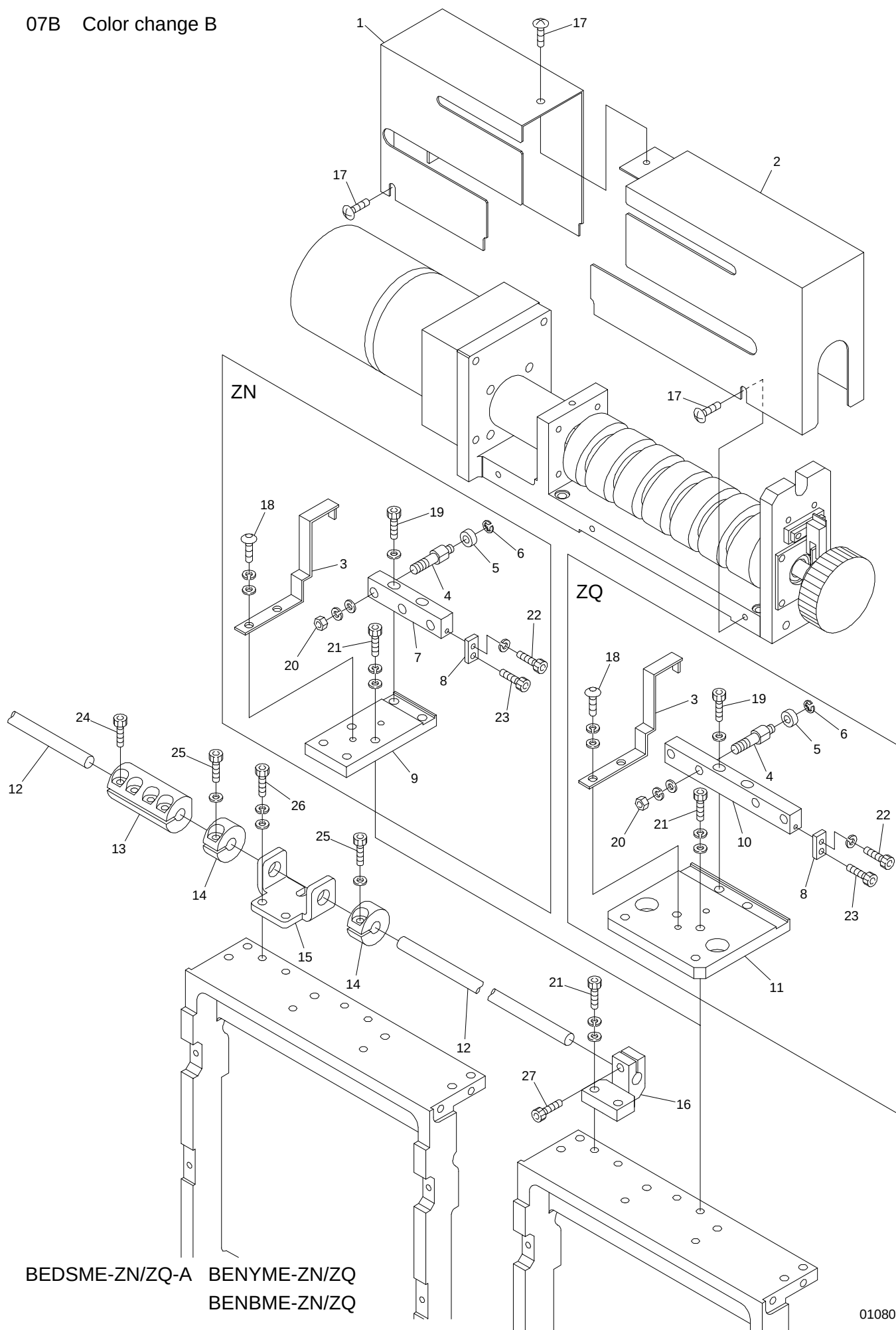


BEDSME-ZQ-A BENYME-ZQ
BENBME-ZQ

07A-2 Color change A (ZQ)

ITEM	LIST NO.	DESCRIPTION	Q'TY	NOTE
1	EBY01650	Color change board	1	
2	A9012208	Spacer(Roll bush) f5×4L	5	
3	RD330081	Color change board base plate	1	
4	LA330060	Color change side plate(ZQ-A)	1	
5	A9010063	Bearing 6000ZZ	3	
6	RD330070	Bearing hold plate(2)	1	
7	RD330030	Coupling	1	
8	RD330040	Connecting shaft	1	
9	RD330050	Stud bolt	4	
10	LA330040	Color change top plate(ZQ-A)	1	
11	KX330250	Sensor spacer	1	
12	A9060063	Photo micro sensor EE-SX672A(OMRON)	1	
13	KX330271	Rotation sensor dock	1	
14	KC330170	Detection plate collar	1	
15	KX330130	Manual knob	1	
16	A9065092	Reversible motor 3RJ10GB-AUL-E4	1	6T max.
	A9065078	Reversible motor 3RK15GN-AUL-E13	1	8T min.
17	A9065093	Gear head 3GB18K	1	6T max.
	A9065079	Gear head 3GN18K	1	8T min.
18	LA330091	Color change base(ZQ-A)	1	
19	RD330020	Motor coupling	1	6T max.
	RD330030	Coupling	1	8T min.
20	RD330060	Bearing hold plate(1)	1	
21	RD330150	Color change cam	1	
22	KX330120	Bearing hold collar	1	
23	A9054022	Condenser CH45UL	1	6T max.
	A9054023	Condenser CH60UL	1	8T min.
24	LA330120	Color change base plate	1	
25		Truss screw M3×8		
26		Flush screw M4×6		
27		Hex.socket bolt M4×10(With spring washer)		
28		Hex.socket bolt M5×25(With washers)		
29		Hex.socket bolt M4×15(With spring washer)		
30		Hex.socket bolt M5×15		
31		Hex.socket bolt M3×16(With washers)		
32		Hex.socket set screw M5×10		
33		Hex.socket set screw M6×6		
34		Hex.socket bolt M4×60(With washers)		
35		Hex.socket bolt M5×25		
36		Hex.socket bolt M4×10(With washers)		
37		Hex.socket bolt M5×18		
38	LA510030	Between cable with color change motor	1	

07B Color change B

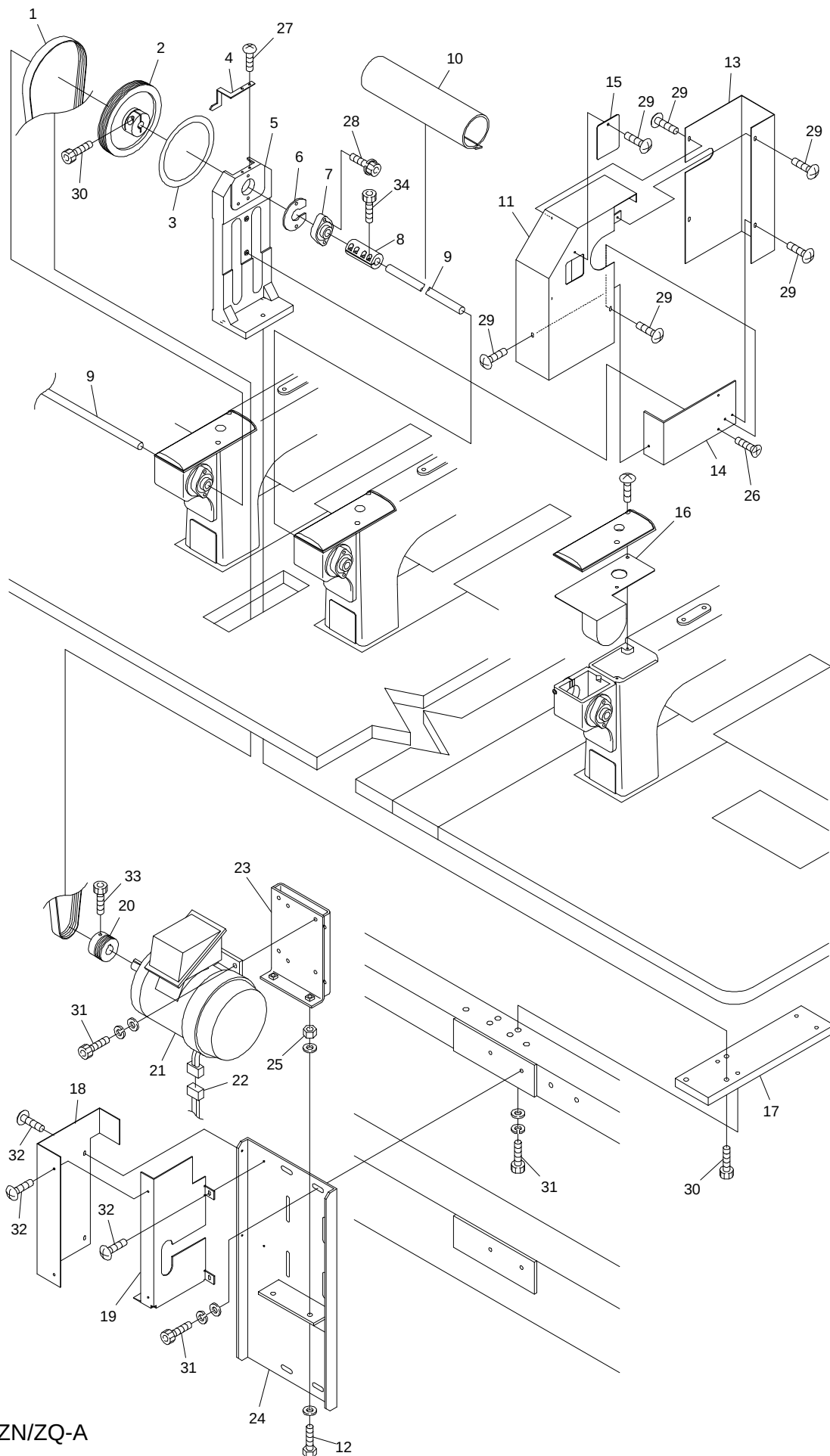


BEDSME-ZN/ZQ-A BENYME-ZN/ZQ
BENBME-ZN/ZQ

07B Color change B

[illegible]

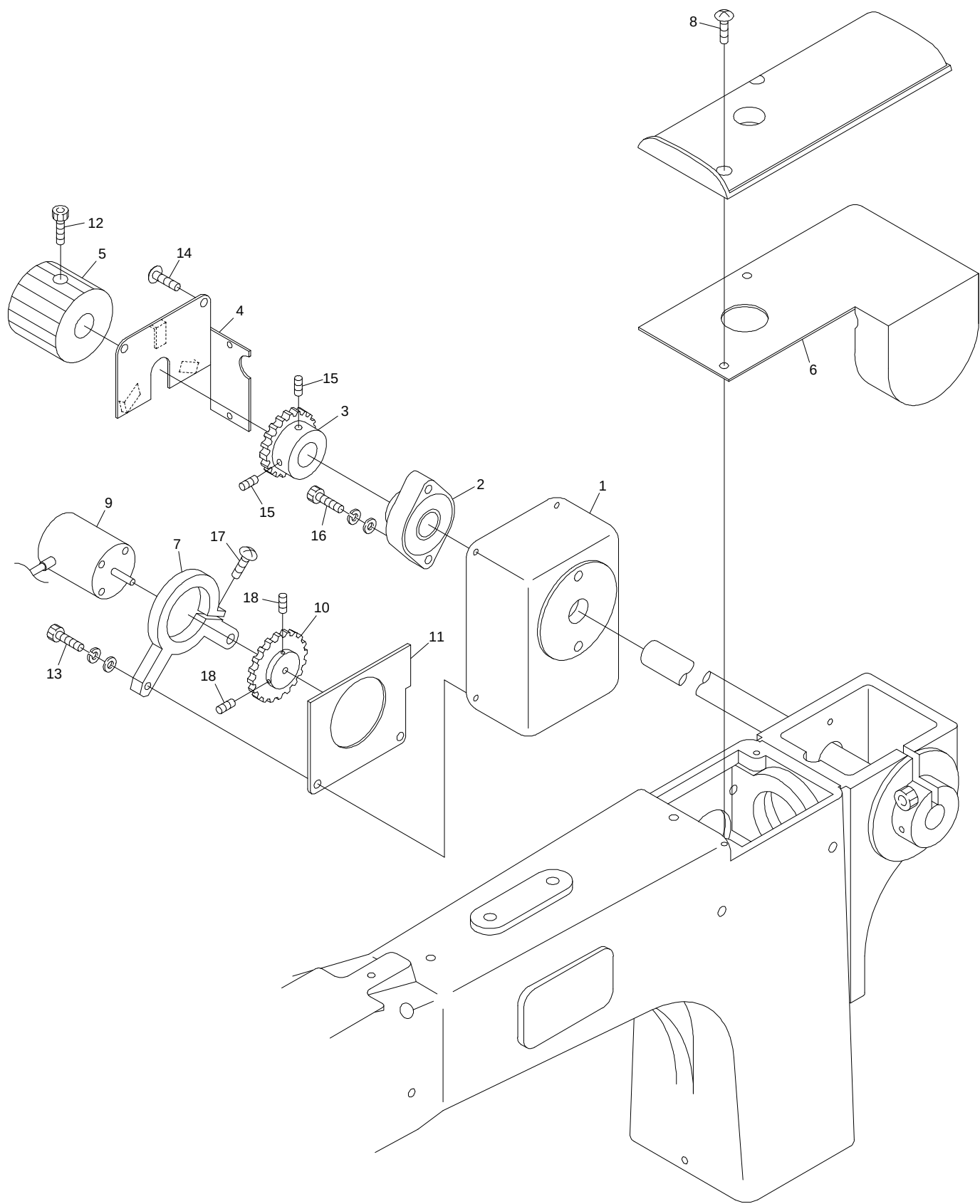
08 Drive



BEDSME-ZN/ZQ-A

[illegible]

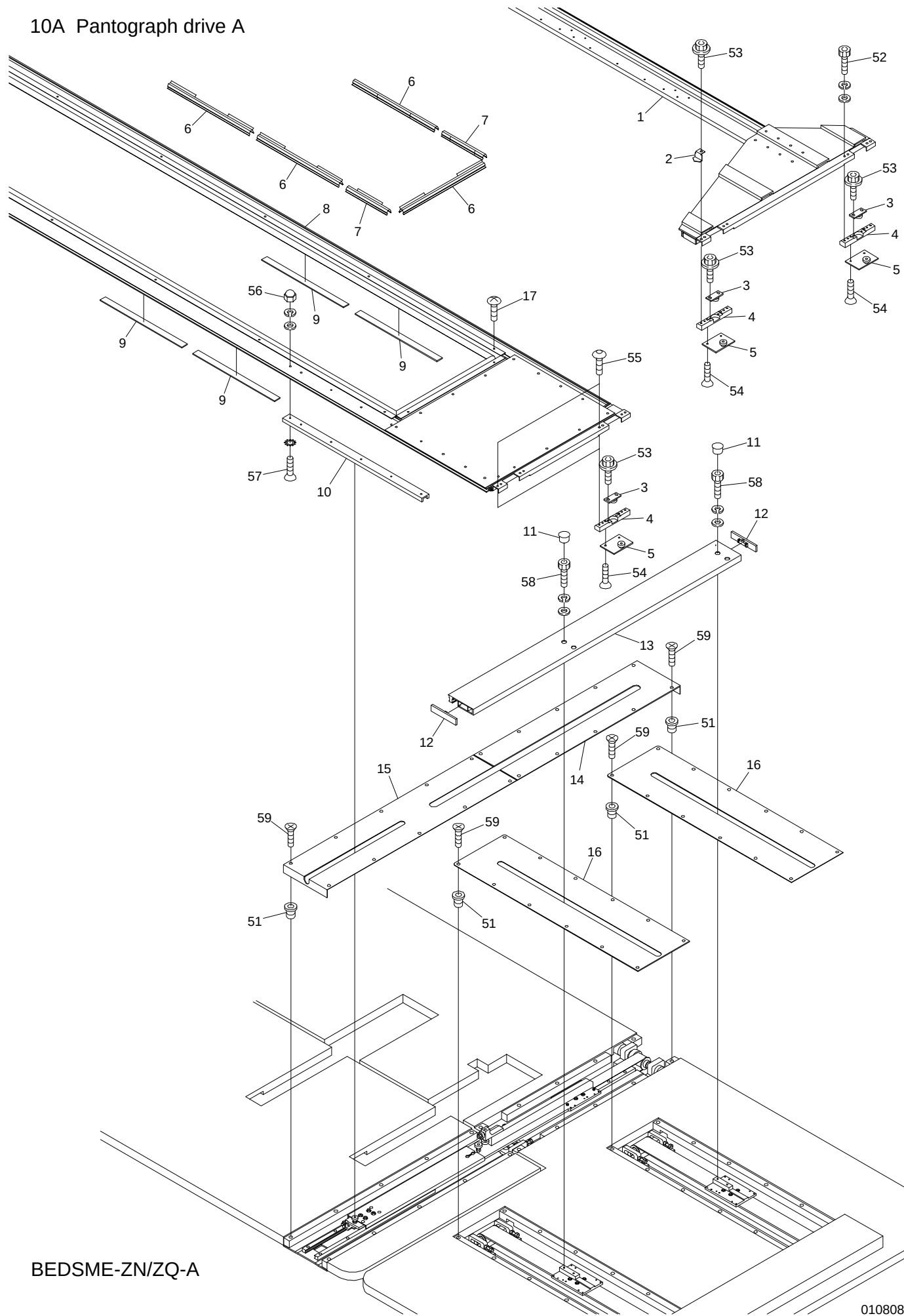
09 Connecting shaft



BENS-YN/YS BENS-YN/YS-L BENY-YN/YS BEDSME-ZN/ZQ-A BENYME-ZN/ZQ
BENR-YN/YS BENR-YN/YS-L BENB-YN/YS BENBME-ZN/ZQ

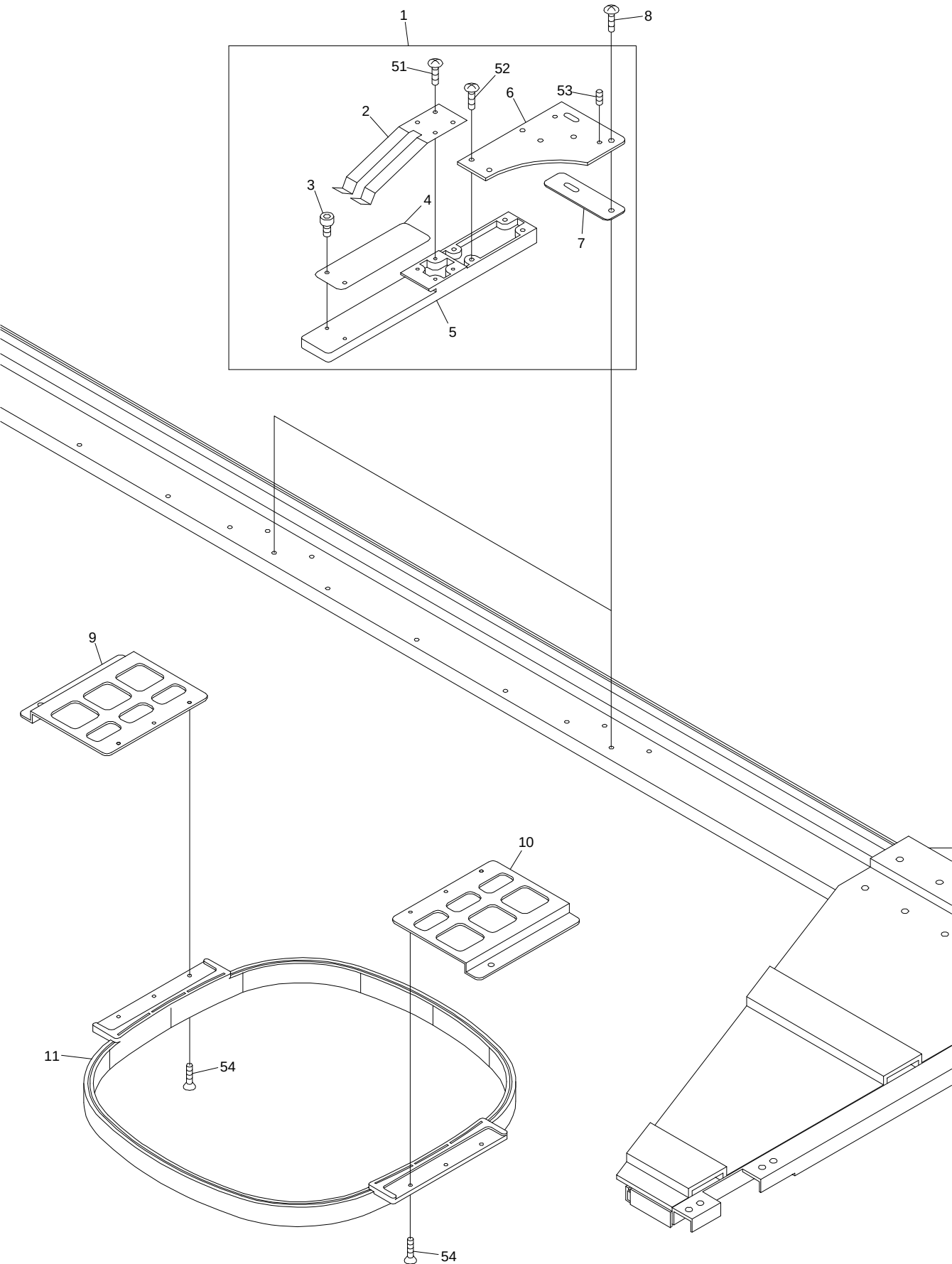
[illegible]

10A Pantograph drive A



[illegible]

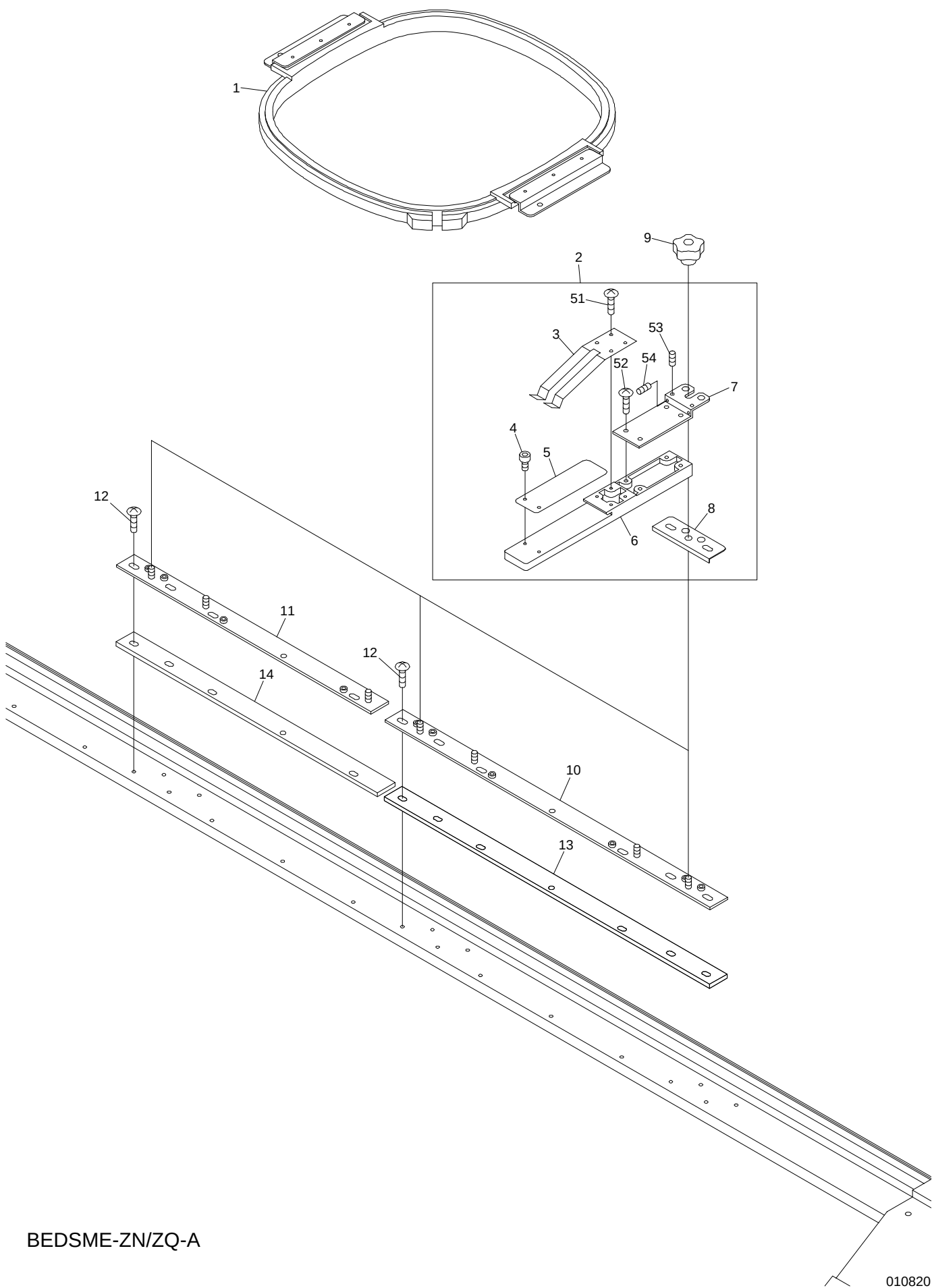
10B-1 Pantograph drive B



10B-1 Pantograph drive B

[illegible]

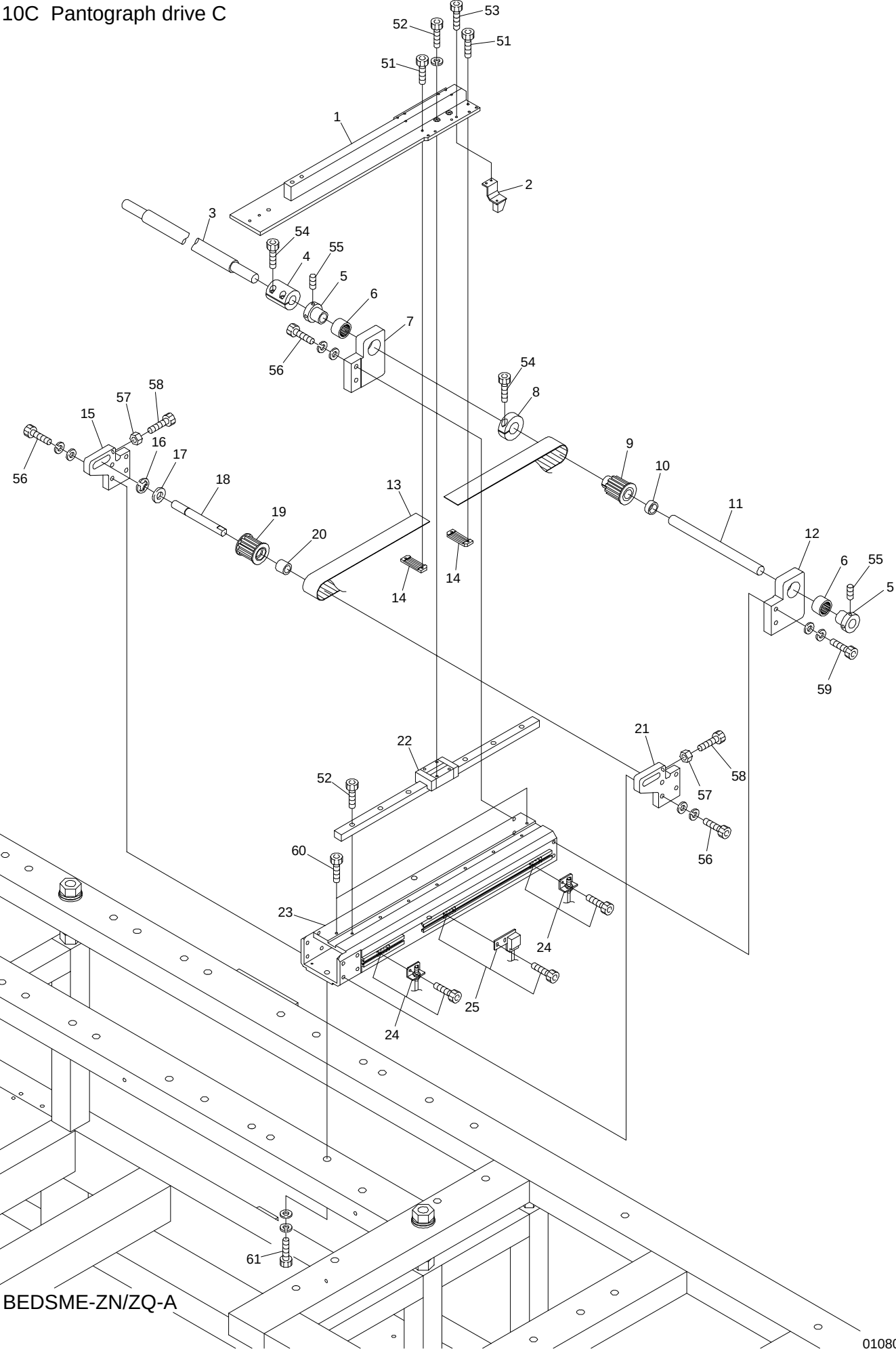
10B-2 Pantograph drive B (QS)



10B-2 Pantograph drive B (QS)

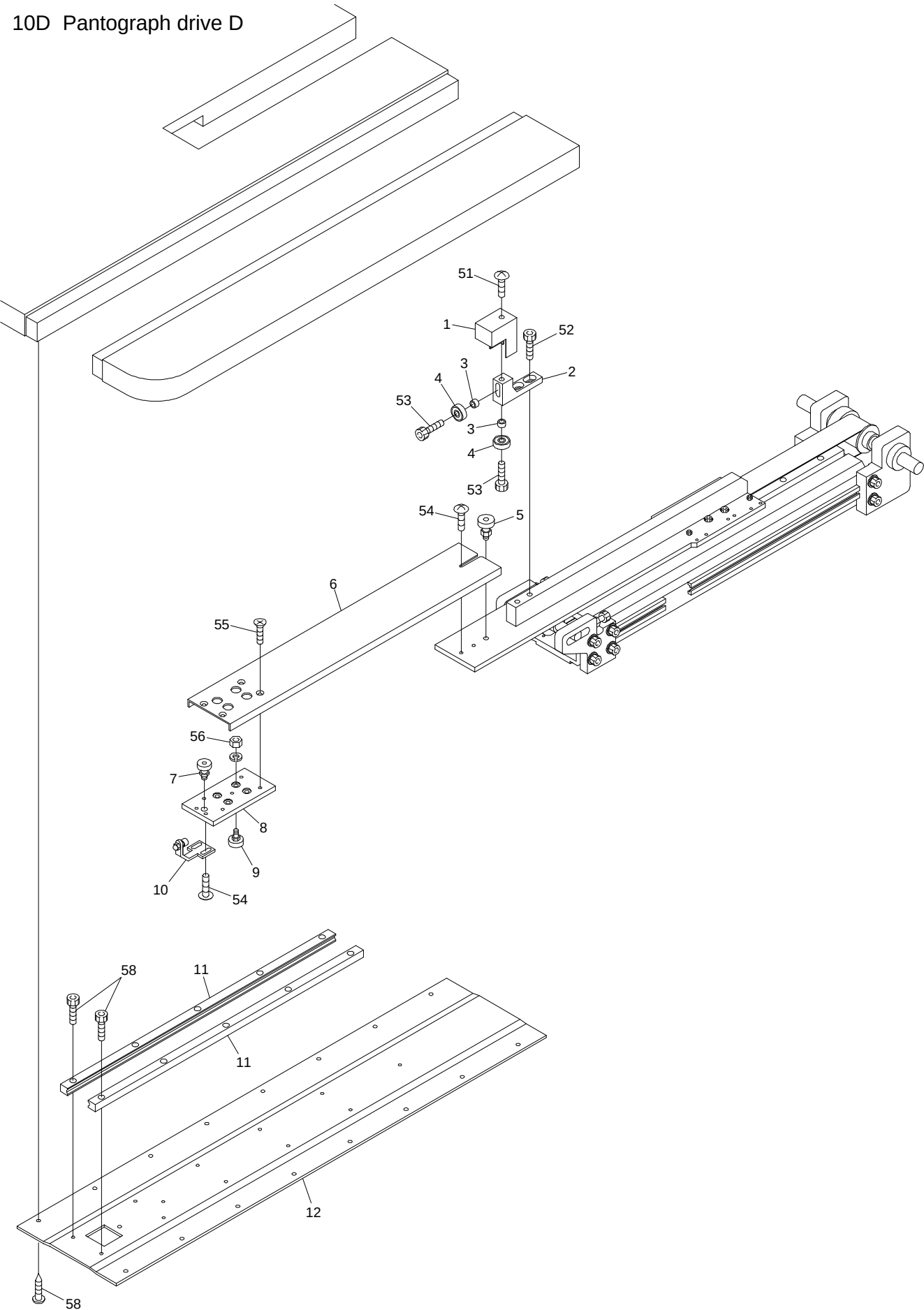
[illegible]

10C Pantograph drive C



[illegible]

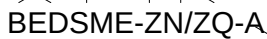
10D Pantograph drive D



BEDSME-ZN/ZQ-A

[illegible]

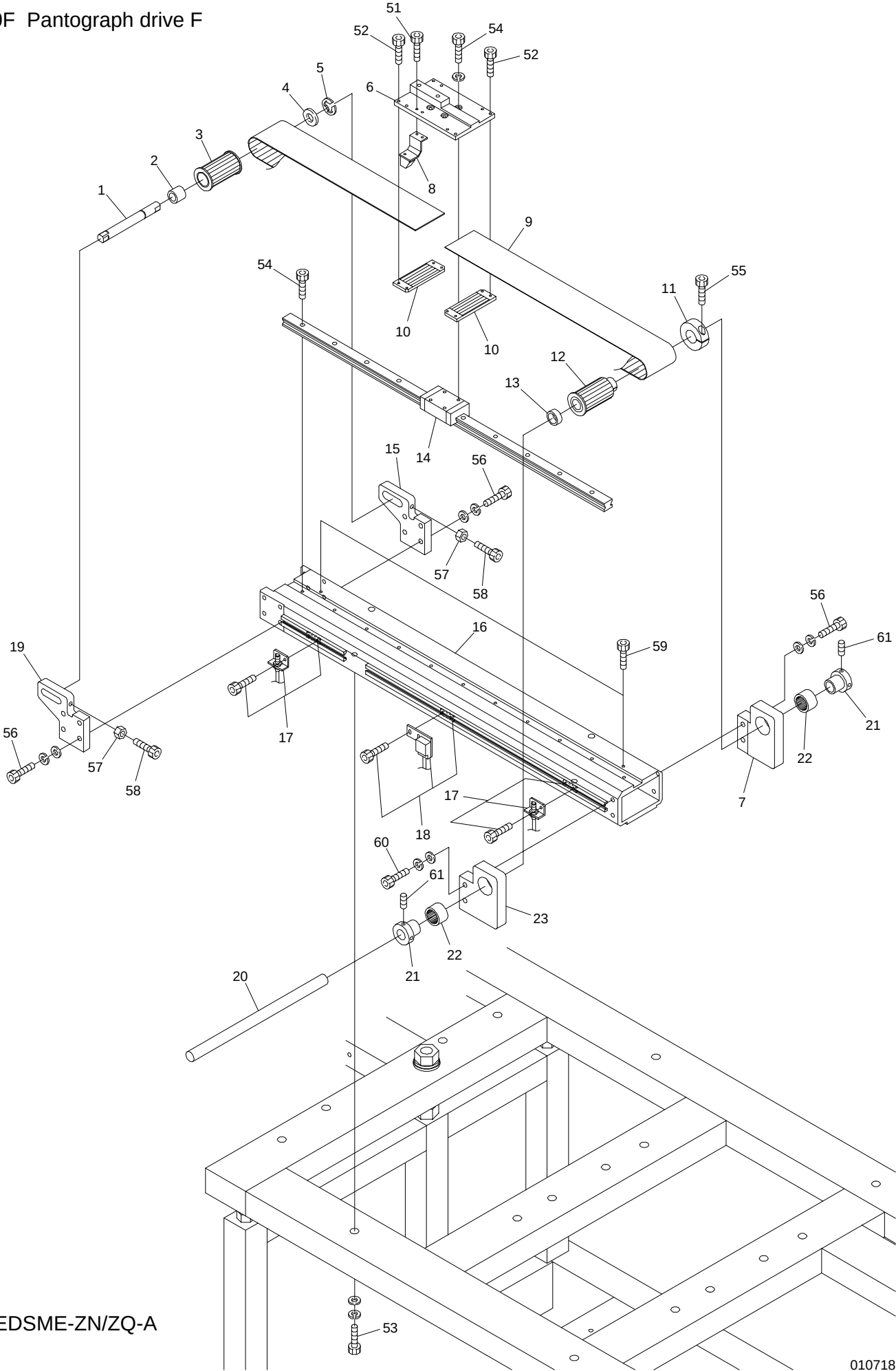
10E Pantograph drive E



010801

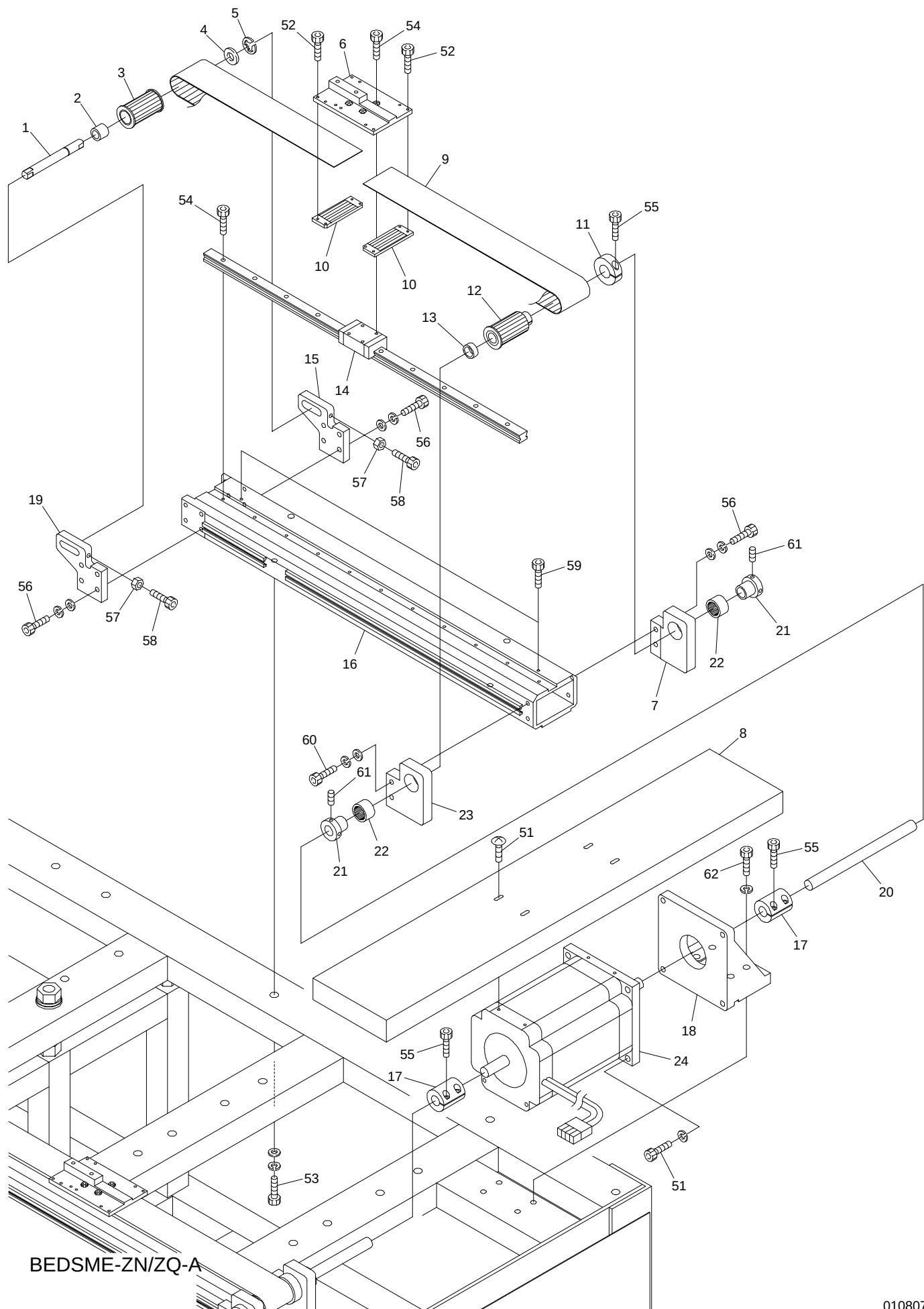
[illegible]

10F Pantograph drive F



[illegible]

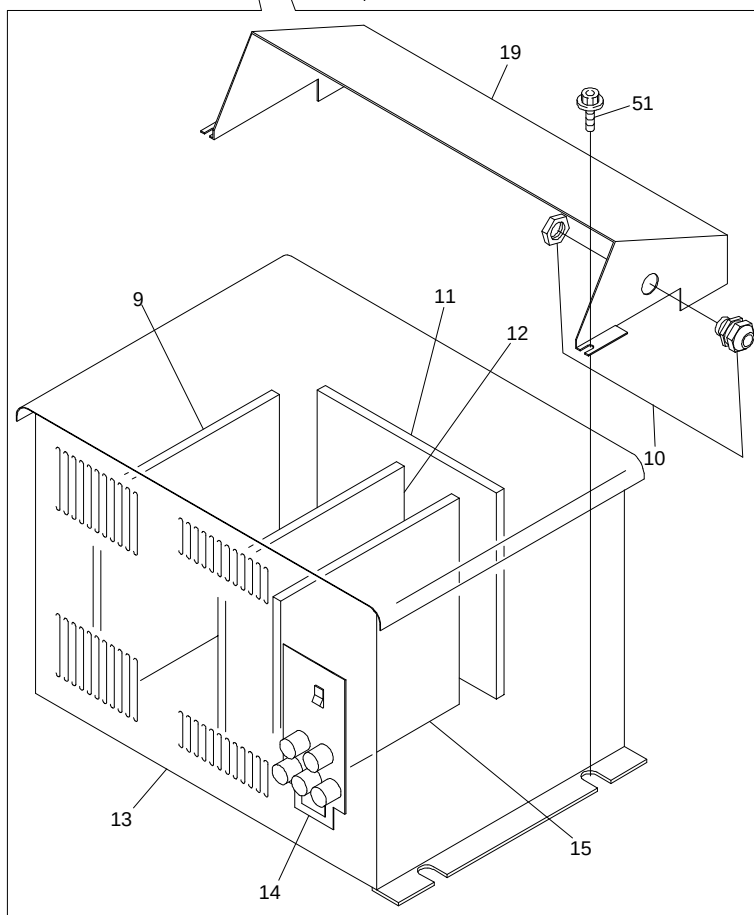
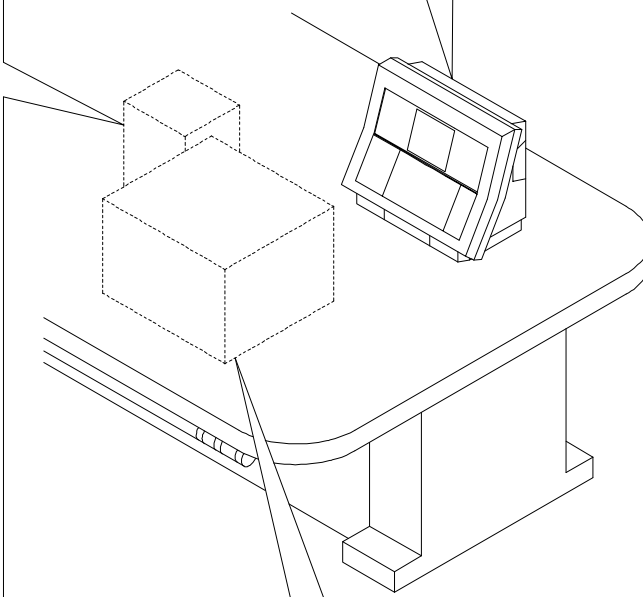
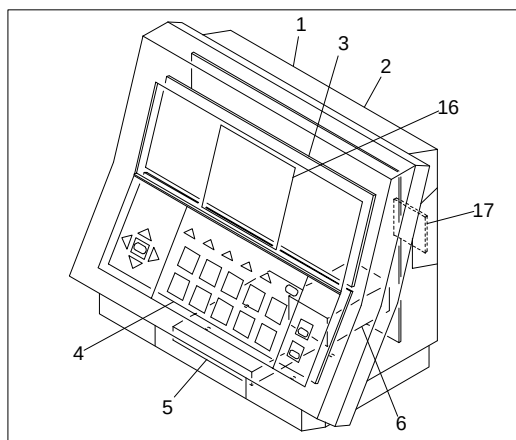
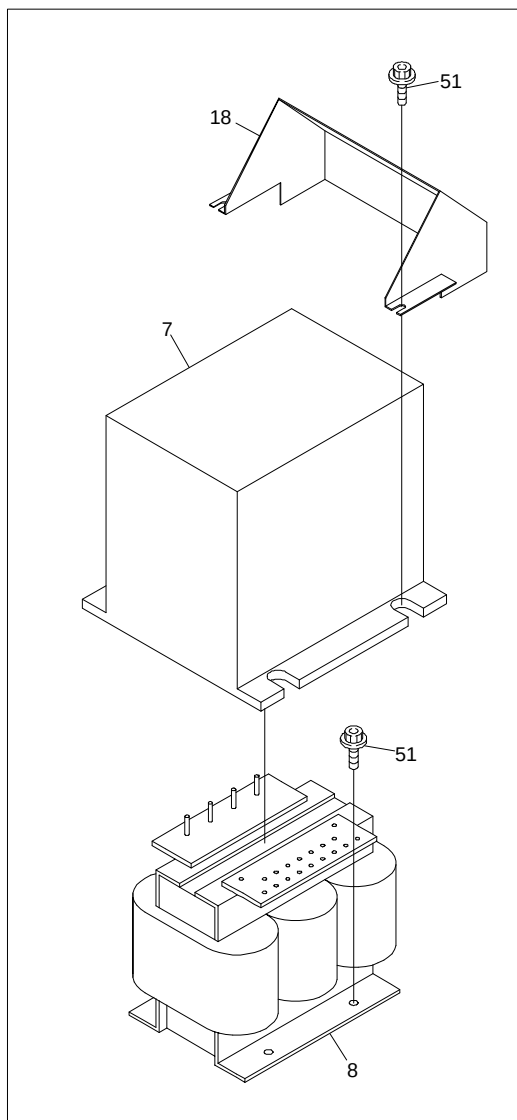
10G Pantograph drive G



BEDSME-ZN/ZQ-A

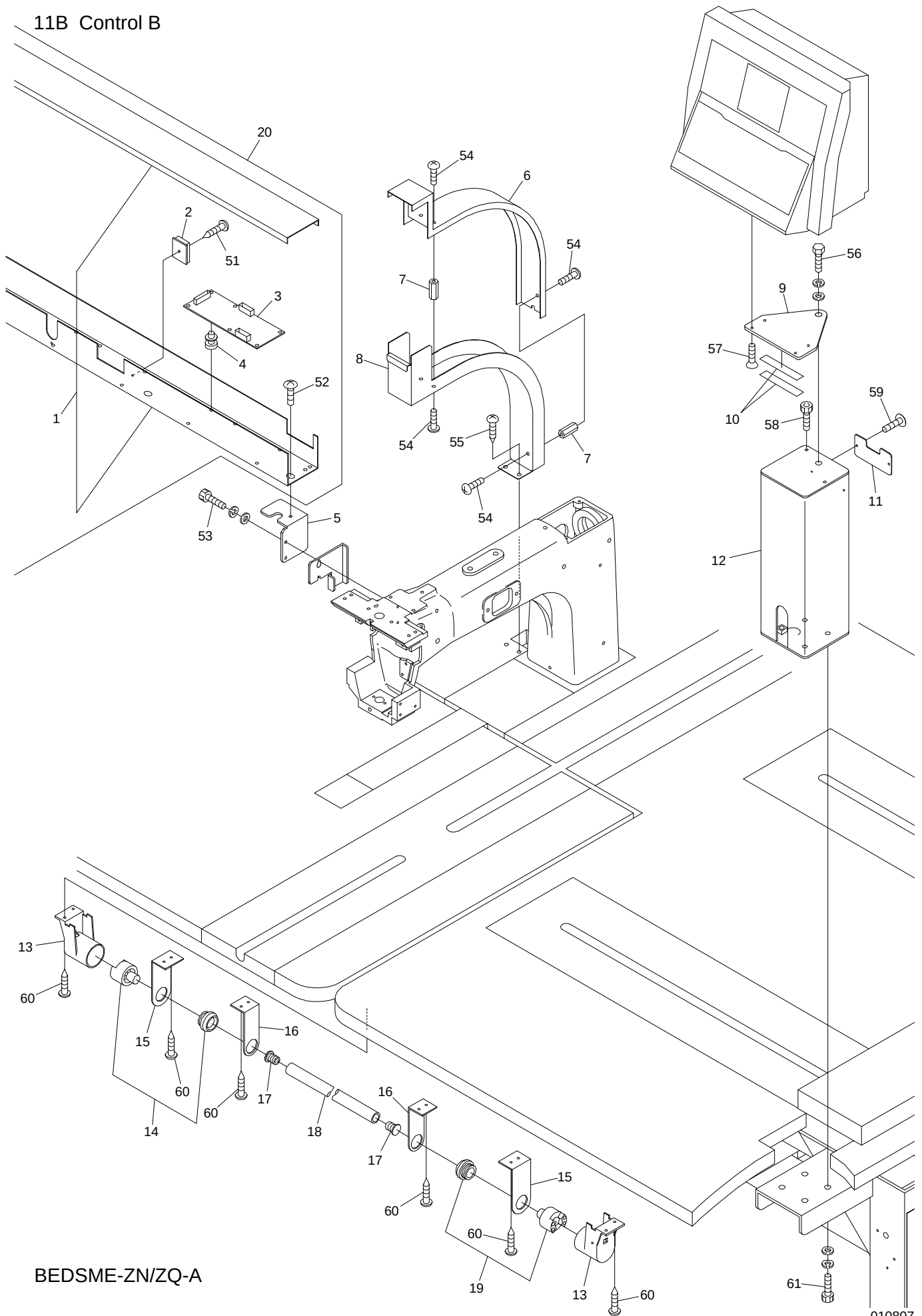
[illegible]

11A Control A



[illegible]

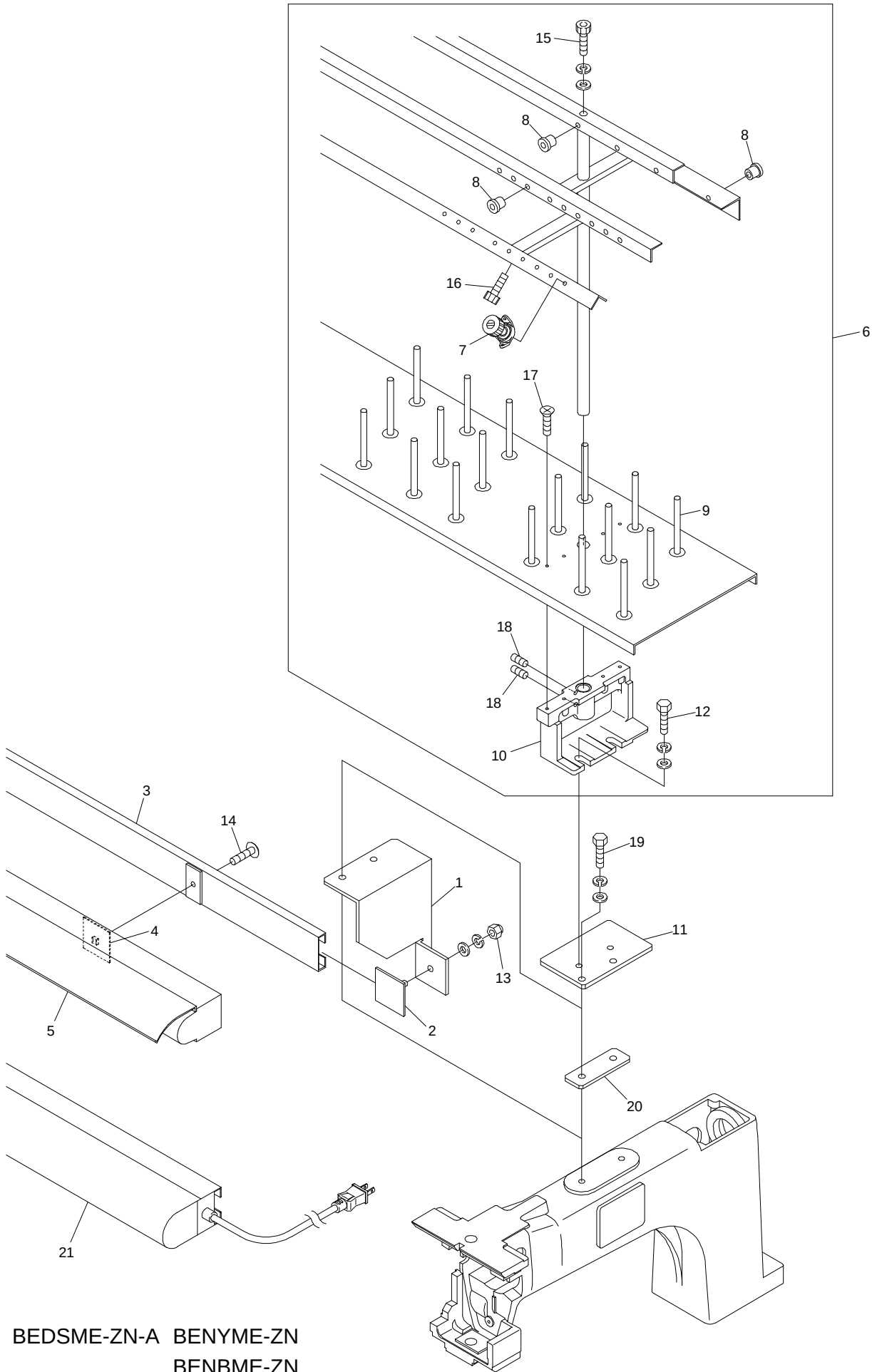
11B Control B



BEDSME-ZN/ZQ-A

[illegible]

12-1 Accessories(ZN)

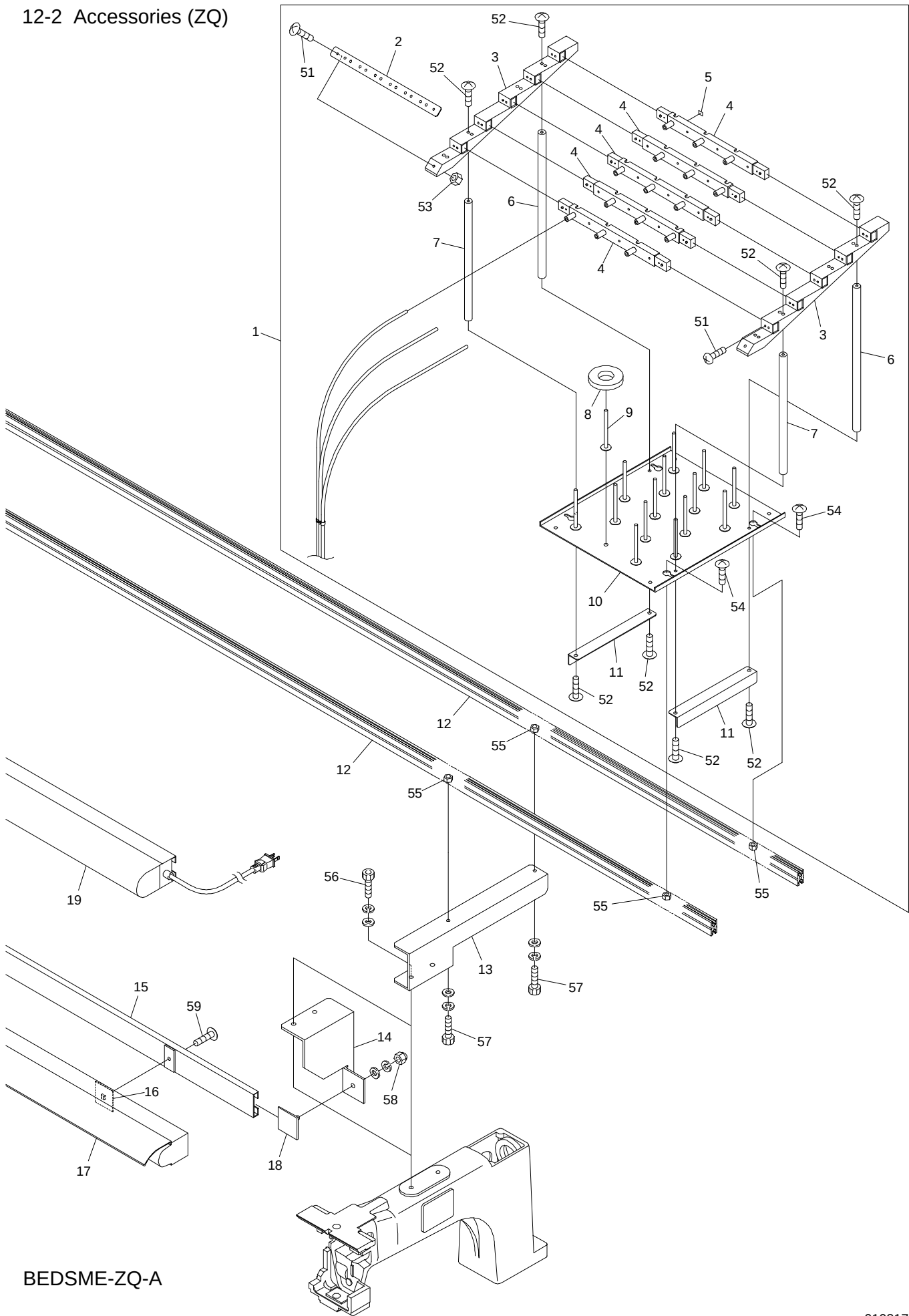


BEDSME-ZN-A BENYME-ZN
BENBME-ZN

12-1 Accessories(ZN)

[illegible]

12-2 Accessories (ZQ)



BEDSME-ZQ-A

12-2 Accessories(ZQ)

[illegible]