

J E T

GH-1640-1880 METALWORKING LATHE
ZX Series

321930T – 321970T
400/50/3

PARTS LIST
ERSATZTEILLISTE
LISTE DE PIECES

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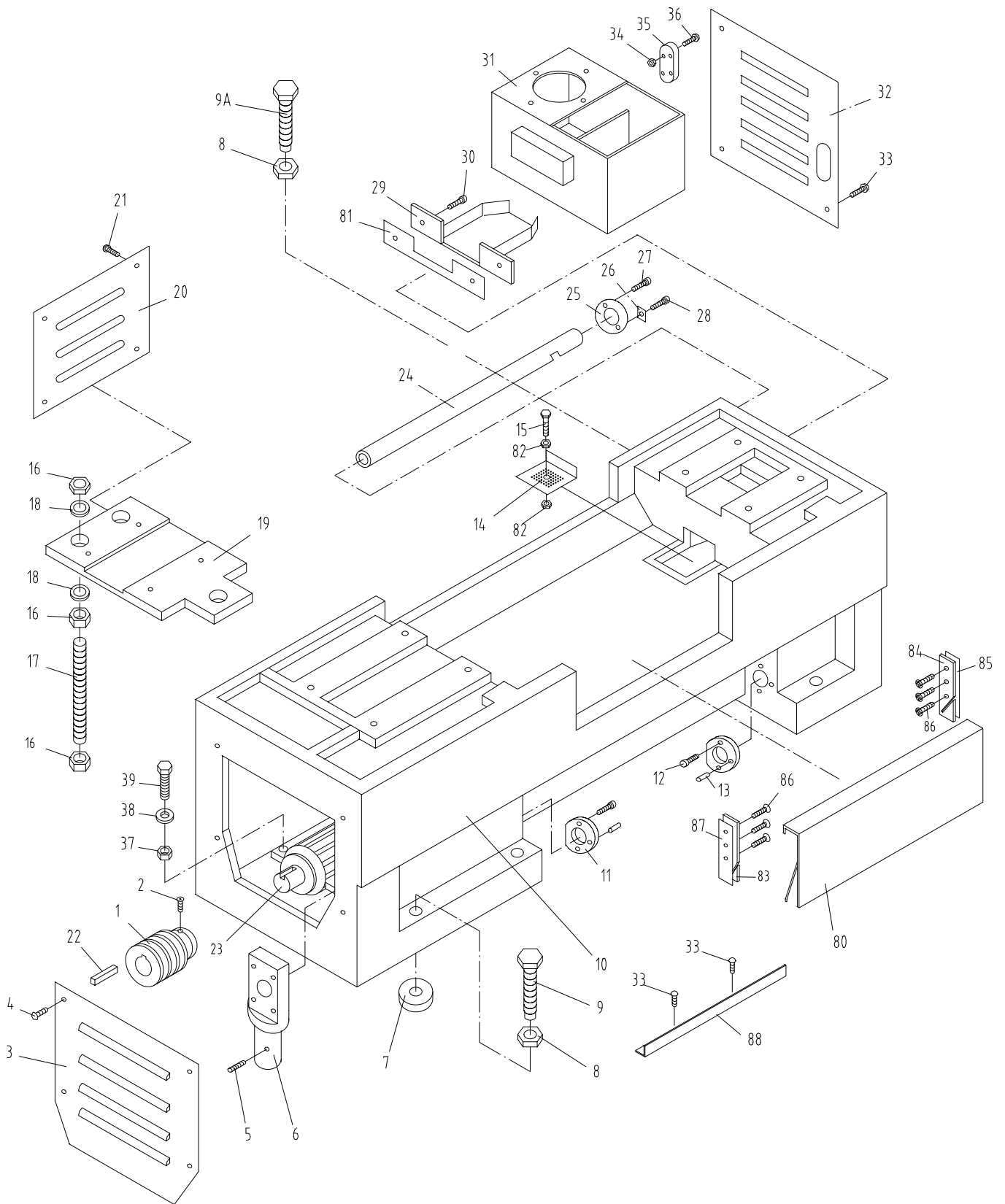
P-321930-321970T 06/05



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Stand Assembly

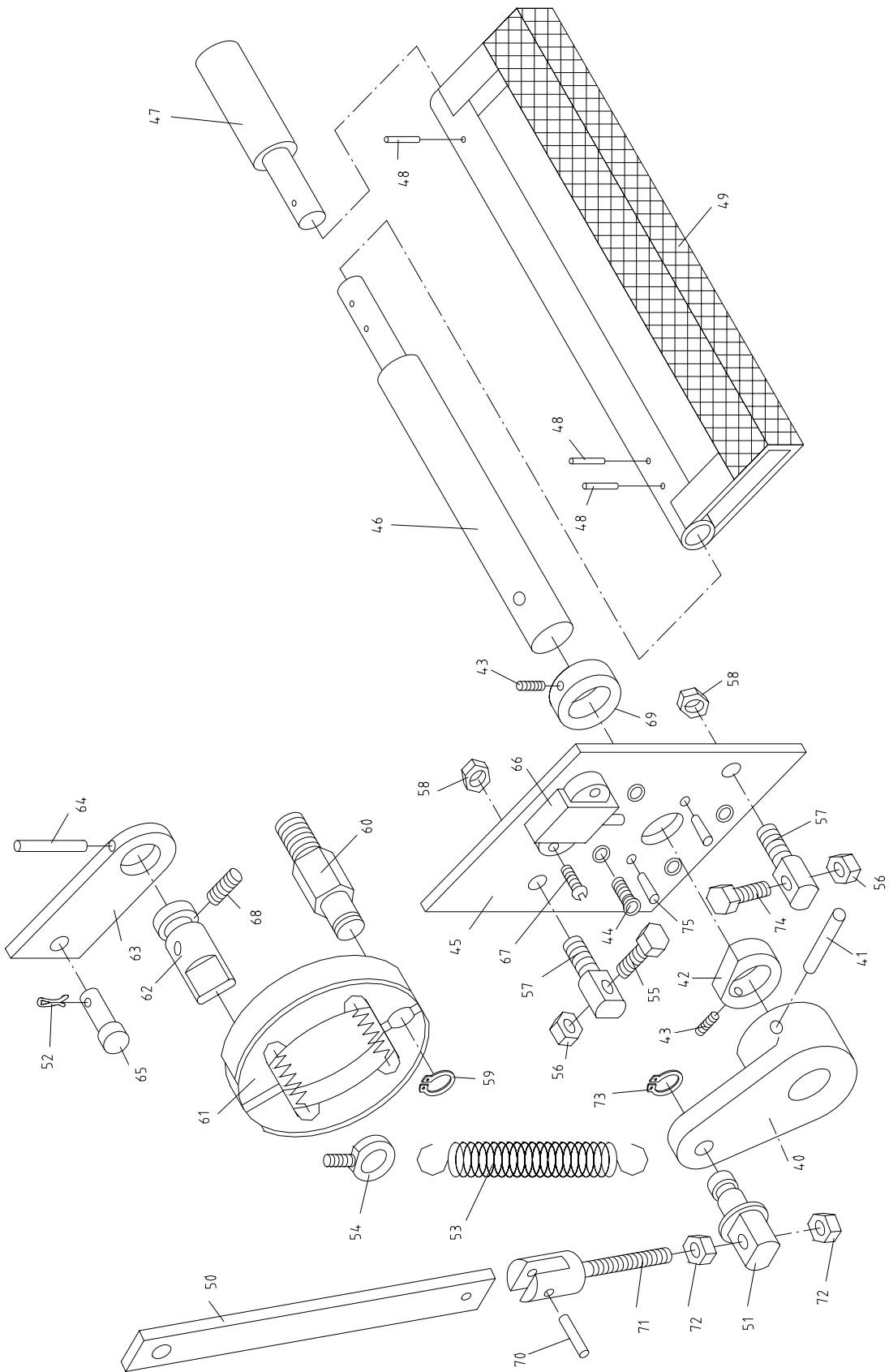


Stand Assembly

Index No.	Part No.	Description	Size	Qty.
1	ZX-01101A	Pulley		1
2	ZX-S2	Cylindrical End Set Screw	M8x16	1
3	ZX-01734	Cover		1
4	ZX-S4	Cross Head Screw	M6x14	4
5	ZX-S2	Cylindrical End Set Screw	M8x16	1
6	ZX-01701	Pedal Rod Support		1
7	ZX-01715	Lining		6
8	TS-1540231	Hex Nut	M24x2	6
9	ZX-01712	Hex Cap Bolt		3
9A	ZX-01713	Hex Cap Bolt		3
10	ZX-01102A	Bed Stand (for 40" models, serial # 010611ZX349 and lower)		1
	ZX-01102AN	New Bed Stand (for 40" models, serial # 010618ZX350 and higher)		1
	ZX-01102B	Bed Stand (for 60" models, serial # 010611ZX349 and lower)		1
	ZX-01102BN	New Bed Stand (for 60" models, serial # 010618ZX350 and higher)		1
	ZX-01102C	Bed Stand (for 1880ZX, serial # 010611ZX349 and lower)		1
	ZX-01102CN	New Bed Stand (for 1880ZX, serial # 010618ZX350 and higher)		1
11	ZX-01703	Fixed Support		2
12	TS-1514021	Socket Head Cap Screw	M6x14	4
13	ZX-S13	Taper Pin	5x20	2
14	ZX-01705	Water Leaking Chip Guard		1
15	ZX-S15A	Cross Head Screw	M5x20	4
16	TS-1540121	Hex Nut	M20	9
17	ZX-01702	Bolt		3
18	TS-1550111	Washer	A20	6
19	ZX-01122A	Motor Mounting Plate (for 14" models)		1
	ZX-01122B	Motor Mounting Plate (for 16"/18" models)		1
20	ZX-01726	Cover		1
21	ZX-S4	Cross Head Screw	M6x14	4
22	ZX-S22	Key	10x8x70	1
23	ZX-S23A	Main Motor (for 14" models)	7.5HP, 4P, 3Ph	1
	ZX-S23B	Main Motor (for 16"/18" models)	7.5HP, 6P, 3Ph	1
24	ZX-017609A	Wire Conduit (for 1440/1640/1840ZX)		1
	ZX-017609B	Wire Conduit (for 1460/1660/1860ZX)		1
	ZX-017609C	Wire Conduit (for 1880ZX)		1
25	ZX-01708	Wire Conduit Support		1
26	ZX-01706	Locking Plate		1
27	ZX-S27	Cross Head Screw	M5x8	2
28	ZX-S15	Cross Head Screw	M4x6	1
29	ZX-01711	Water Reception Plate		1
30	ZX-S4	Cross Head Screw	M6x14	2
31	ZX-01510	Coolant Tank		1
32	ZX-01714	Cover		1
33	ZX-S4	Cross Head Screw	M6x14	6
34	ZX-S34	Nut	M3	4
35	ZX-S35	Coolant Indicator		1
36	ZX-S36	Cross Head Screw	M3x20	4
37	TS-1540072	Hex Nut	M10	4
38	TS-1550071	Washer	M10	4
39	TS-1491041	Hex Cap Bolt	M10x30	4
80	ZX-01716A	Stand Front Cover (for 1440/1640/1840ZX)		1
	ZX-01716B	Stand Front Cover (for 1460/1660/1860ZX)		1
	ZX-01716C	Stand Front Cover (for 1880ZX)		1
81	ZX-01501	Gasket		1
82	ZX-S82	Hex Nut	M5	2
83	ZX-01740	Left Tray		1
84	ZX-01741	Right Tray		1

Index No.	Part No.	Description	Size	Qty.
85	ZX-01511	Gasket		2
86	ZX-S86	Cross Head Screw	M5x16	6
87	ZX-01512	Gasket		1
	JX21004	Terminal Board (not shown)		1
	18301	Junction Box (not shown)		1
	D97-4	Plastic Fitting (not shown)		1
88	ZX-05753	Extending Plate		1

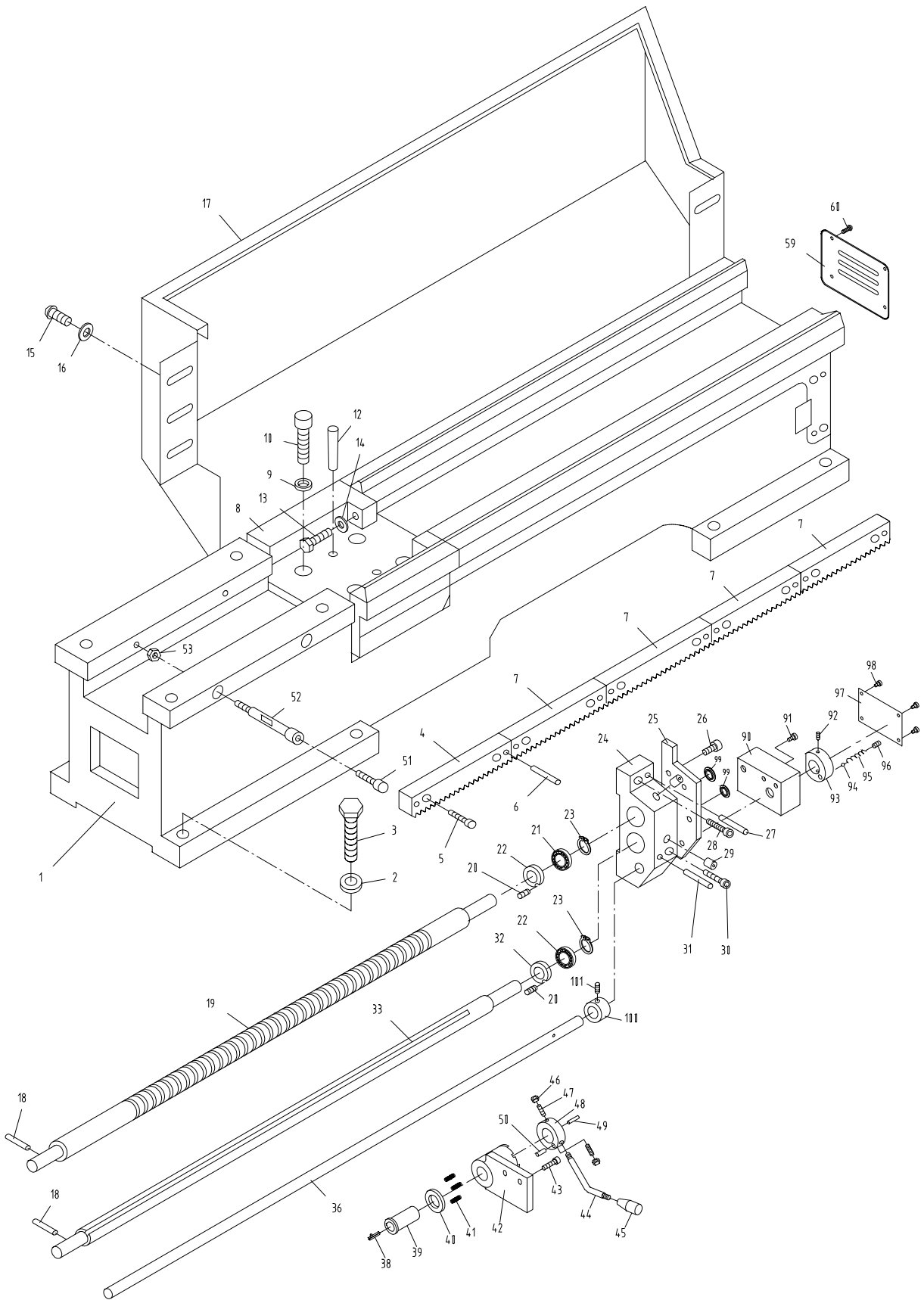
Brake Assembly



Brake Assembly

Index No.	Part No.	Description	Size	Qty.
40	ZX-22101	Fork		1
41	ZX-S41	Spring Pin	5x40	1
42	ZX-22703	Butt Nail Support		1
43	TS-1524021	Set Screw	M8x10	1
44	ZX-S44	Cross Head Screw	M5x20	4
45	ZX-22714	Positioning Plate		1
46	ZX-22704A	Driving Shaft-Longer		1
47	ZX-22705A	Driving Shaft		1
48	ZX-S48	Spring Pin	5x30	3
49	ZX-22712A	Pedal (for 1440/1640/1840ZX)		1
	ZX-22712B	Pedal (for 1460/1660/1860ZX)		1
	ZX-22712C	Pedal (for 1880ZX)		1
50	ZX-22710A	Draw Bar (for 14" models)		1
	ZX-22710B	Draw Bar (for 16" models)		1
	ZX-22710C	Draw Bar (for 18" models)		1
51	ZX-22706	Connecting Shaft		1
52	ZX-S52	Split Pin	2x20	2
53	ZX-S53	Tensile Spring	3.5x26x190	1
54	ZX-S54	Eyebolt	M8	1
55	TS-1490091	Hex Cap Bolt	M8x50	1
56	TS-1540061	Hex Nut	M8	1
57	ZX-22707A	Butt Rod Support		1
58	TS-1540072	Hex Nut	M10	1
59	ZX-S59	C-Clip	8	1
60	ZX-22701	Positioning Shaft		1
61	ZX-S61	Brake Shoe		1
62	ZX-22702	Brake Shaft		1
63	ZX-22708	Connecting Plate		1
64	ZX-S64	Elastic Pin	5x25	1
65	ZX-22709	Connecting Shaft		1
66	ZX-S66	Stroke Switch		1
67	ZX-S67	Screw	M4x25	2
68	ZX-S68	Cylindrical End Set Screw	M5x10	1
69	ZX-22711	Butt Nail Support		1
70	ZX-S70	Pin	5n6x20	1
71	ZX-22715	Adjust Bolt		1
72	TS-1540061	Hex Nut	M8	1
73	ZX-S73	C-Clip	12	2
74	ZX-S74	Hex Cap Bolt	M8x35	1
75	ZX-S75	Taper Pin	5x20	2
	ZX-SQ1E	Stroke Switch for foot break (not shown)	LXW5-11N1	1

Bed Assembly

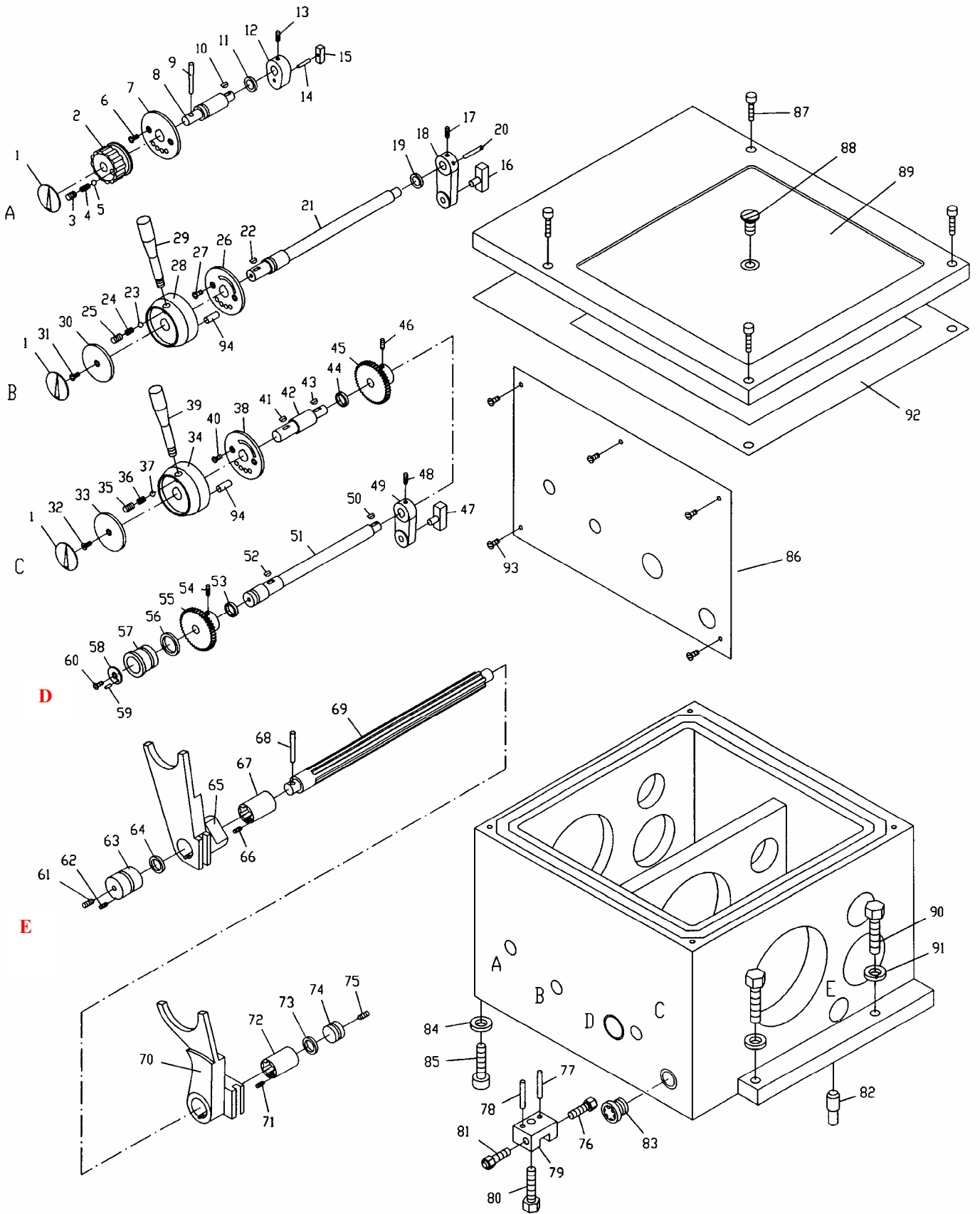


Bed Assembly

Index No.	Part No.	Description	Size	Qty.
1	ZX-01104A	Bed (for 1440/1640/1840ZX)		1
	ZX-01104B	Bed (for 1460/1660/1860ZX)		1
	ZX-01104C	Bed (for 1880ZX)		1
2	TS-1550101	Washer	B16	8
3	ZX-B3	Hex Cap Bolt	M16x50	8
4	ZX-01706	Rack		1
5	TS-1516041	Hex Socket Cap Screw (for 1440/1640/1840ZX)	M10x35	10
		Hex Socket Cap Screw (for 1460/1660/1860ZX)	M10x35	14
		Hex Socket Cap Screw (for 1880ZX)	M10x35	18
6	ZX-B6	Taper Pin (for 1440/1640/1840ZX)	8x50	10
		Taper Pin (for 1460/1660/1860ZX)	8x50	14
		Taper Pin (for 1880ZX)	8x50	18
7	ZX-01706A	Rack (for 1440/1640/1840ZX)		4
		Rack (for 1460/1660/1860ZX)		6
		Rack (for 1880ZX)		8
8	ZX-01112	Saddle		1
9	TS-1551081	Lock Washer	12	4
10	TS-1517041	Hex Socket Cap Screw	M12x55	4
12	ZX-B12	Thread Taper Pin	12x70	2
13	TS-1491101	Hex Cap Bolt	M10x55	2
14	TS-1550071	Washer	M10	2
15	TS-1503021	Hex Socket Cap Screw	M6x10	6
16	TS-1550041	Washer	M6	6
17	ZX-01741A	Splash Guard (for 1440ZX)		1
	ZX-01741B	Splash Guard (for 1460ZX)		1
	ZX-01741C	Splash Guard (for 1640ZX)		1
	ZX-01741D	Splash Guard (for 1660ZX)		1
	ZX-01741E	Splash Guard (for 1840ZX)		1
	ZX-01741F	Splash Guard (for 1860ZX)		1
	ZX-01741G	Splash Guard (for 1880ZX)		1
18	ZX-B18	Shear Pin	5x35	2
19	ZX-01708A	Lead Screw (for 40" models, Serial # 010611ZX349 and lower)		1
	ZX-01708AN	New Lead Screw (for 40" models, Serial # 010618ZX350 and higher)		1
	ZX-01708B	Lead Screw (for 60" models, Serial # 010611ZX349 and lower)		1
	ZX-01708BN	New Lead Screw (for 60" models, Serial # 010618ZX350 and higher)		1
	ZX-01708C	Lead Screw (for 1880ZX, Serial # 010611ZX349 and lower)		1
	ZX-01708CN	New Lead Screw (for 1880ZX, Serial # 010618ZX350 and higher)		1
20	ZX-B20	Flat End Set Screw	M6x10	2
21	ZX-01109	Sleeve (serial # 010611ZX349 and lower)		1
	ZX-01109N	New Sleeve (serial # 010618ZX350 and higher)		1
22	ZX-1204	Double Row Spherical Ball Bearing	20x47x14	2
23	ZX-B23	C-Clip	20	2
24	ZX-01110	Bracket (serial # 010611ZX349 and lower)		1
	ZX-01110N	New Bracket (serial # 010618ZX350 and higher)		1
25	ZX-01111	Cover		1
26	TS-1514021	Hex Socket Cap Screw	M6x14	4
27	ZX-B27	Taper Pin	6x60	1
28	TS-1516061	Hex Socket Cap Screw	M10x50	1
29	ZX-B29	Oil Cup	10	2
30	TS-223991	Hex Socket Cap Screw	M10x100	1
31	ZX-B31	Taper Pin	6x100	1
32	ZX-01108	Sleeve (serial # 010611ZX349 and lower)		1
	ZX-01108N	New Sleeve (serial # 010618ZX350 and higher)		1
33	ZX-01709A	Feed Rod (for 40" models, serial # 010611ZX349 and lower)		1
	ZX-01709AN	New Feed Rod (for 40" models, serial # 010618ZX350 and higher)		1
	ZX-01709B	Feed Rod (for 60" models, serial # 010611ZX349 and lower)		1

Index No.	Part No.	Description	Size	Qty.
	ZX-01709BN	New Feed Rod (for 60" models, serial # 010618ZX350 and higher)		1
	ZX-01709C	Feed Rod (for 1880ZX, serial # 010611ZX349 and lower)		1
	ZX-01709CN	New Feed Rod (for 1880ZX, serial # 010618ZX350 and higher)		1
36	ZX-01707A	Control Rod (for 1440/1640/1840ZX)		1
	ZX-01707B	Control Rod (for 1460/1660/1860ZX)		1
	ZX-01707C	Control Rod (for 1880ZX)		1
37	TS-1540031	Nut	M5	1
40	ZX-06001C-2	Spacer		1
41	ZX-B41	Spring	1x75x25	3
42	ZX-06001C-1	Bracket		1
43	TS-1515011	Hex Socket Cap Screw	M8x16	2
44	ZX-B44	Lever		1
45	ZX-06001C-4	Long Lever Sleeve		1
46	ZX-B46	Hex Nut	M8	2
47	ZX-B47	Set Screw	M8x28	2
48	ZX-06001C-5	Direction Change Ring		1
49	ZX-B49	Pin	8n6x20	1
50	ZX-B50	Taper Pin	3x20	1
51	TS-1516061	Hex Socket Cap Screw	M10x48	2
52	ZX-05741	Threaded Tube		2
53	TS-1540081	Hex Nut	M12	2
59	ZX-01715C	Cover		1
60	ZX-B60	Cross Recessed Pan Head Screw	M6x18	4
61	TS-1482031	Hex Cap Bolt	M6x16	2
62	ZX-B62	Pin	2x15	2
63	ZX-01719	Rocker		1
90	C0632A-01301E	Switch Box		1
	SQ2SQ3E	Stroke Switch fw/rev (not shown)	LXW5-11D1	2
91	ZX-B91E	Hex Socket Cap Screw	M8x20	4
92	ZX-B92E	Screw	M6x16	1
93	C0632A-01705E	Bushing		1
94	ZX-B94E	Steel Ball	6	1
95	ZX-B95E	Spring		1
96	ZX-B96E	Screw	M8x16	1
97	C0632A-01504E	Switch Box Cover		1
98	ZX-B98E	Hex Socket Cap Screw	M5x10	4
99	C0632A-01503E	Plug		2
100	ZX-01706E	Positioning Sleeve		1
101	ZX-B101E	Screw	M5x8	1

Headstock Assembly I

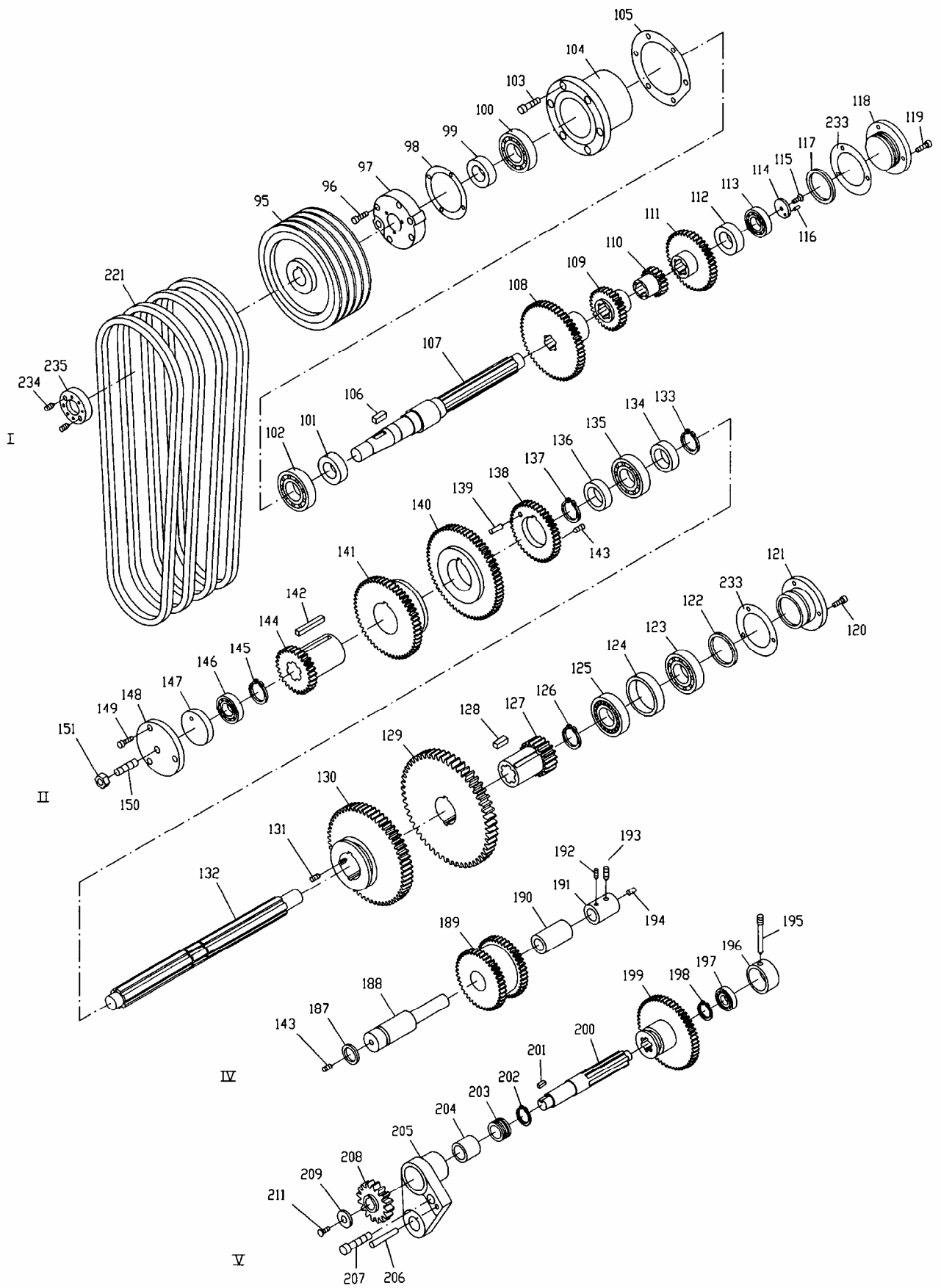


Headstock Assembly I

Index No.	Part No.	Description	Size	Qty.
1	ZX-02306	Round Sign Plate		3
2	ZX-02122	Positioning Handle		1
3	ZX-H3	Flat End Set Screw	M10x12	1
4	ZX-H4	Spring	YI-1x8x25	1
5	ZX-H5	Steel Ball	8	1
6	ZX-H6	Countersunk Head Screw	M5x12	2
7	ZX-02743	Positioning Disc		1
8	ZX-02738	Shaft		1
9	ZX-H9	Taper Pin	5x55	1
10	ZX-H10	Half Circle Key	4x16	1
11	ZX-H11	Ring Seal	25x2.4	1
12	ZX-02116	Crank		1
13	TS-1523051	Set Screw	M6x16	1
14	ZX-H14	Pin	5n6x28	1
15	ZX-02302	Poking Block		1
16	ZX-02738C	Pin Block		1
17	TS-1523051	Set Screw	M6x16	1
18	ZX-02114	Crank		1
19	ZX-H11	Ring Seal	25x2.4	1
20	ZX-H20	Pin	5x30	1
21	ZX-02734	Shaft		1
22	ZX-H10	Half Circle Key	4x16	1
23	ZX-H5	Steel Ball	8	1
24	ZX-H4	Spring	YI-1x8x25	1
25	ZX-H3	Flat End Set Screw	M10x12	1
26	ZX-02733	Left Positioning Disc		1
27	ZX-H6	Countersunk Head Screw	M5x12	2
28	ZX-02113	Left Lever Support		1
29	ZX-02741	Handle		1
30	ZX-02732	Cover		1
31	ZX-H6	Countersunk Head Screw	M5x12	1
32	ZX-H6	Countersunk Head Screw	M5x12	1
33	ZX-02732	Cover		1
34	ZX-02119	Right Lever Support		1
35	ZX-H3	Flat End Set Screw	M10x12	1
36	ZX-H4	Spring	YI-1x8x25	1
37	ZX-H5	Steel Ball	8	1
38	ZX-02728	Right Positioning Disc		1
39	ZX-02741	Handle		1
40	ZX-H6	Countersunk Head Screw	M5x12	2
41	ZX-H10	Half Circle Key	4x16	1
42	ZX-02727	Shaft		1
43	ZX-H10	Half Circle Key	4x16	1
44	ZX-H11	Ring Seal	25x2.4	1
45	ZX-02730	Gear	1.5m36T	1
46	TS-1523051	Set Screw	M6x16	1
47	ZX-02738C	Pin Block		1
48	TS-1523051	Set Screw	M6x16	1
49	ZX-02111	Crank		1
50	ZX-H10	Half Circle Key	4x16	1
51	ZX-02731/1	Control Shaft		1
52	ZX-H 10	Half Circle Key	4x16	1
53	ZX-H11	Ring Seal	25x2.4	1
54	ZX-H54	Taper End Set Screw	M6x16	1
55	ZX-02732/2	Gear	1.5m36T	1
56	ZX-H56	Ring Seal	40x3.1	1

Index No.	Part No.	Description	Size	Qty.
57	ZX-02110	Bushing		1
58	ZX-02729	Cover		1
59	ZX-H59	Pin	3n6x10	1
60	ZX-H6	Countersunk Head Screw	M5x12	1
61	ZX-H61	Countersunk Head Screw	M8x12	1
62	ZX-H62	Flat End Set Screw	M8x12	1
63	ZX-02115	Bearing Support		1
64	ZX-H64	Ring Seal	40x3.1	1
65	ZX-02115	Left Fork		1
66	ZX-H66	Flat End Set Screw	M6x10	1
67	ZX-02120A/2	Bushing		1
68	ZX-H68	Taper Pin	6x35	1
69	ZX-02736	Control Shaft		1
70	ZX-02112	Right Fork		1
71	ZX-H66	Flat End Set Screw	M6x10	1
72	ZX-02120A/2	Bushing		1
73	ZX-H73	Ring Seal	30x3.1	1
74	ZX-02735	Blocking Piece		1
75	ZX-H61	Countersunk Head Screw	M8x12	1
76	ZX-02744	Adjusting Screw		1
77	ZX-H77	Taper Pin	8x40	1
78	ZX-H77	Taper Pin	8x40	1
79	ZX-92124	Adjusting Block		1
80	ZX-H80	Hex Cap Bolt	M12x50	1
81	ZX-02744	Adjusting Screw		1
82	ZX-02736C	Positioning Pin		1
83	ZX-H83	Oil Sight Glass		1
84	ZX-H84	Washer	A16	2
85	ZX-H85	Hex Socket Cap Screw	M16x50	2
86	ZX-02301A	Label (for 1440ZX)		1
	ZX-02301B	Label (for 1460ZX)		1
	ZX-02301C	Label (for 1640ZX)		1
	ZX-02301D	Label (for 1660ZX)		1
	ZX-02301E	Label (for 1840ZX)		1
	ZX-02301F	Label (for 1860ZX)		1
	ZX-02301G	Label (for 1880ZX)		1
87	TS-1504071	Hex Socket Cap Screw	M8x35	4
88	ZX-H88	Countersunk Head Screw	M16x25	1
89	ZX-02117	Top Cover		1
90	ZX-H90	Hex Cap Bolt		2
91	ZX-H91	Washer	A16	2
92	ZX-02505	Paper Gasket		1
93	ZX-H93	Cross Recessed Pan Head Screw	M3x6	7
94	ZX-H94N	Pin	4n6x15	2

Headstock Assembly II

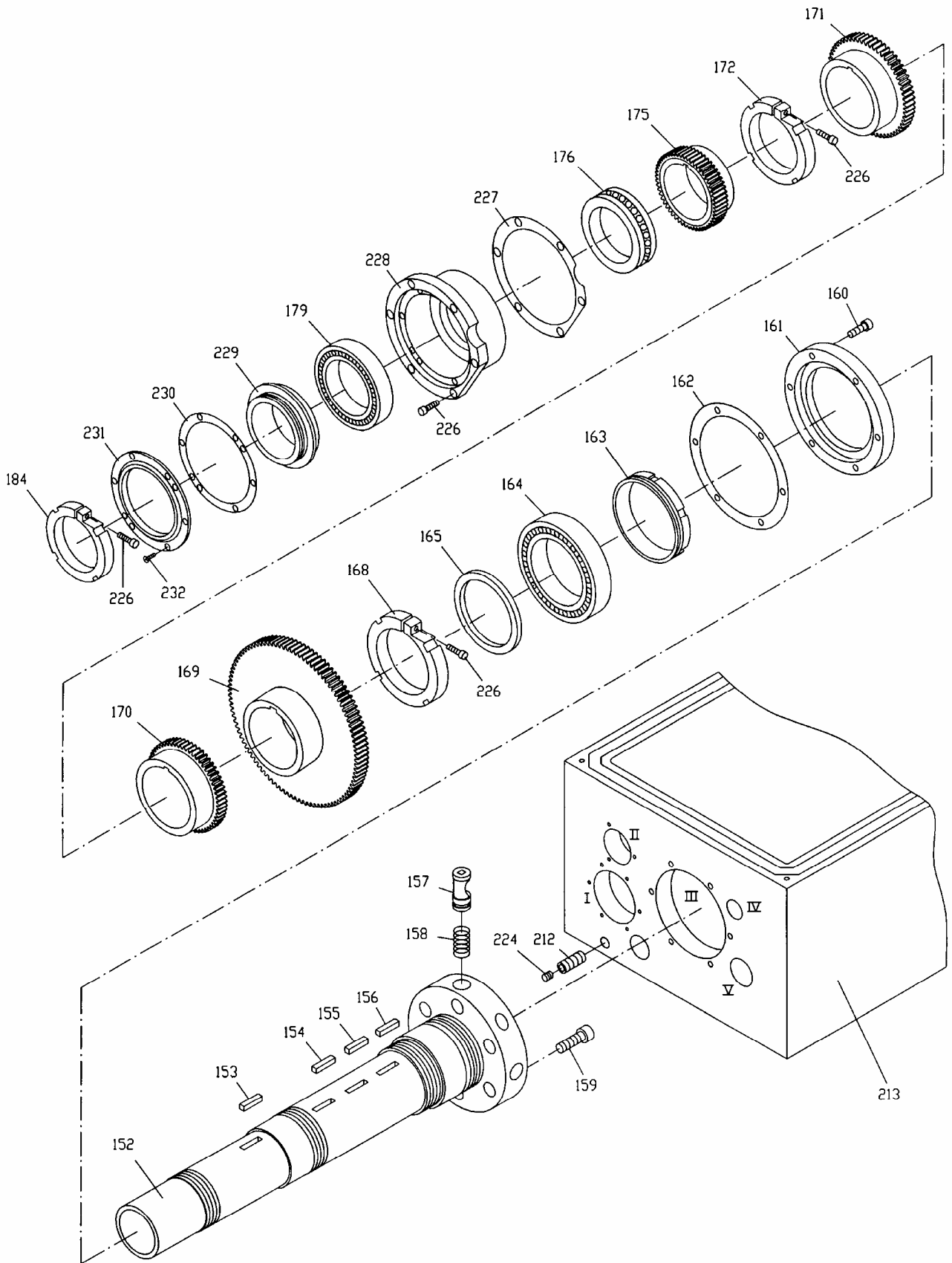


Headstock Assembly II

Index No.	Part No.	Description	Size	Qty.
95	ZX-02107	Pulley		1
96	TS-1514041	Hex Socket Cap Screw	M6x25	4
97	ZX-02106	Bearing Cover		1
98	ZX-02506	Gasket		1
99	ZX-H99	Ring Seal	32x52	1
100	BB-6207	Ball Bearing	35x72x17	1
101	BB-6207	Ball Bearing	35x72x17	1
102	ZX-H102	Sleeve	30x10	1
103	TS-1515031	Hex Socket Cap Screw	M8x25	6
104	ZX-02105	Bearing Support		1
105	ZX-02502	Gasket		1
106	ZX-H106	Flat Key	10x8x35	1
107	ZX-02709	Shaft		1
108	ZX-02754X	Gear (for 14" models)	2.5m52T	1
	ZX-02754X/6P	Gear (for 16"/18" models)	2.5m61T	1
109	ZX-02753X	Gear (for 14" models)	2.5m28T	1
	ZX-02753X/6P	Gear (for 16"/18" models)	2.5m32T	1
110	ZX-02708	Gear	2.5m18T	1
111	ZX-02751X	Gear (for 14" models)	2.5m41T	1
	ZX-02751X/6P	Gear (for 16"/18" models)	2.5m47T	1
112	ZX-H112	Sleeve		1
113	BB6305/P6	Ball Bearing	25x62x17	1
114	ZX-H114	Shaft End Lock Ring	32	1
115	ZX-H115	Countersunk Head Screw	M6x20	1
116	ZX-H59	Pin	3n6x10	1
117	ZX-H117	Ring Seal	60x3.1	1
118	ZX-02104	Blocking Flange		1
119	TS-1514021	Hex Socket Cap Screw	M6x15	3
120	TS-1514021	Hex Socket Cap Screw	M6x15	3
121	ZX-02103	Blocking Flange		1
122	ZX-H117	Ring Seal	60x3.1	1
123	BB-6305	Ball Bearing	25x62x17	1
124	ZX-H124	Sleeve	62x6	1
125	BB-6305	Ball Bearing	25x62x17	1
126	ZX-H126	Circle Clip For Shaft	35	1
127	ZX-02705	Gear	3m19T	1
128	ZX-H128	Flat Key	8x7x50	2
129	ZX-02706	Gear	3m67T	1
130	ZX-02707	Gear	3m59T	1
131	ZX-H62	Flat End Set Screw	M8x12	1
132	ZX-02708	Shaft		1
133	ZX-H133	C-Clip	35	1
134	ZX-H134	Sleeve	35x8	1
135	BB-6007	Ball Bearing	35x62x14	1
136	ZX-H136	Sleeve	35x8	1
137	ZX-H133	C-Clip	35	1
138	ZX-02756	Gear (for 14" models)	2.5m42T	1
	ZX-02756/6P	Gear (for 16"/18" models)	2.5m36T	1
139	ZX-H139	Pin	8n6x25	1
140	ZX-02757	Gear (for 14" models)	2.5m65T	1
	ZX-02757/6P	Gear (for 16"/18" models)	2.5m65T	1
141	ZX-02758	Gear (for 14" models)	2.5m55T	1
	ZX-02758/6P	Gear (for 16"/18" models)	2.5m51T	1
142	ZX-H142	Flat Key	10x6x60	2
143	ZX-H143	Flat Head Set Screw	M8x12	2
144	ZX-02755X	Gear (for 14" models)	2.5m31T	1

Index No.	Part No.	Description	Size	Qty.
	ZX-02755X/6P	Gear (for 16"/18" models)	2.5m22T	1
145	ZX-H133	C-Clip	35	1
146	BB-6305	Ball Bearing	25x62x17	1
147	ZX-H147	Pushing Disc	62	1
148	ZX-02109C	Cover		1
149	TS-1514021	Hex Socket Cap Screw	M6x15	3
150	ZX-H150	Set Screw	M12x65	1
151	ZX-H151	Hex Nut	M12	1
187	ZX-H187	Ring Seal	35x3.1	1
188	ZX-02714	Shaft		1
189	ZX-02716	Double Gear	2m48T	1
190	ZX-02303	Copper Sleeve		1
191	ZX-02734C	Positioning Sleeve		1
192	TS-1523031	Set Screw	M6x10	1
193	TS-1524041	Set Screw	M8x15	1
194	ZX-02733C	Blocking Piece		1
195	ZX-02718	Taper End Set Screw		1
196	ZX-02114C	Sleeve		1
197	BB-6203	Ball Bearing	17x40x12	1
198	ZX-H198	C-Clip	28	1
199	ZX-02717	Gear	2m65T	1
200	ZX-02715	Shaft		1
201	ZX-H201	Flat Key	5x5x1	1
202	ZX-H198	C-Clip	28	1
203	ZX-02722C	Sleeve		1
204	ZX-02301	Oil Bushing		1
205	ZX-08106A	Bracket (for Shaft V, Vb) (for 14"/16" models)		1
	ZX-08106B	Bracket (for Shaft V, Vb) (for 18" models)		1
206	ZX-H77	Taper Pin	8x40	1
207	TS-1516021	Hex Socket Cap Screw	M10x25	1
208	TNMP08706A(N)	Gear (for 14"/16"/22" models)	3.5m15T	1
	TNMP08706B(N)	Gear (for 18" models)	4m15T	1
209	ZX-02724C	Washer		1
210	ZX-H59	Pin	3n6x10	1
211	ZX-H211	Countersunk Head Screw	M5x16	1
221	VB-A1931	V-Belt (for 14" models)	A-1931	4
	VB-A1956	V-Belt (for 16" models)	A-1956	4
	VB-A1981	V-Belt (for 18" models)	A-1981	4
233	ZX-02506	Paper Gasket		2
234	ZX-H234	Set Screw	M8x6	2
235	ZX-02743N	Clamping Round Nut		1
236	ZX-H236	Pin	8x30	2

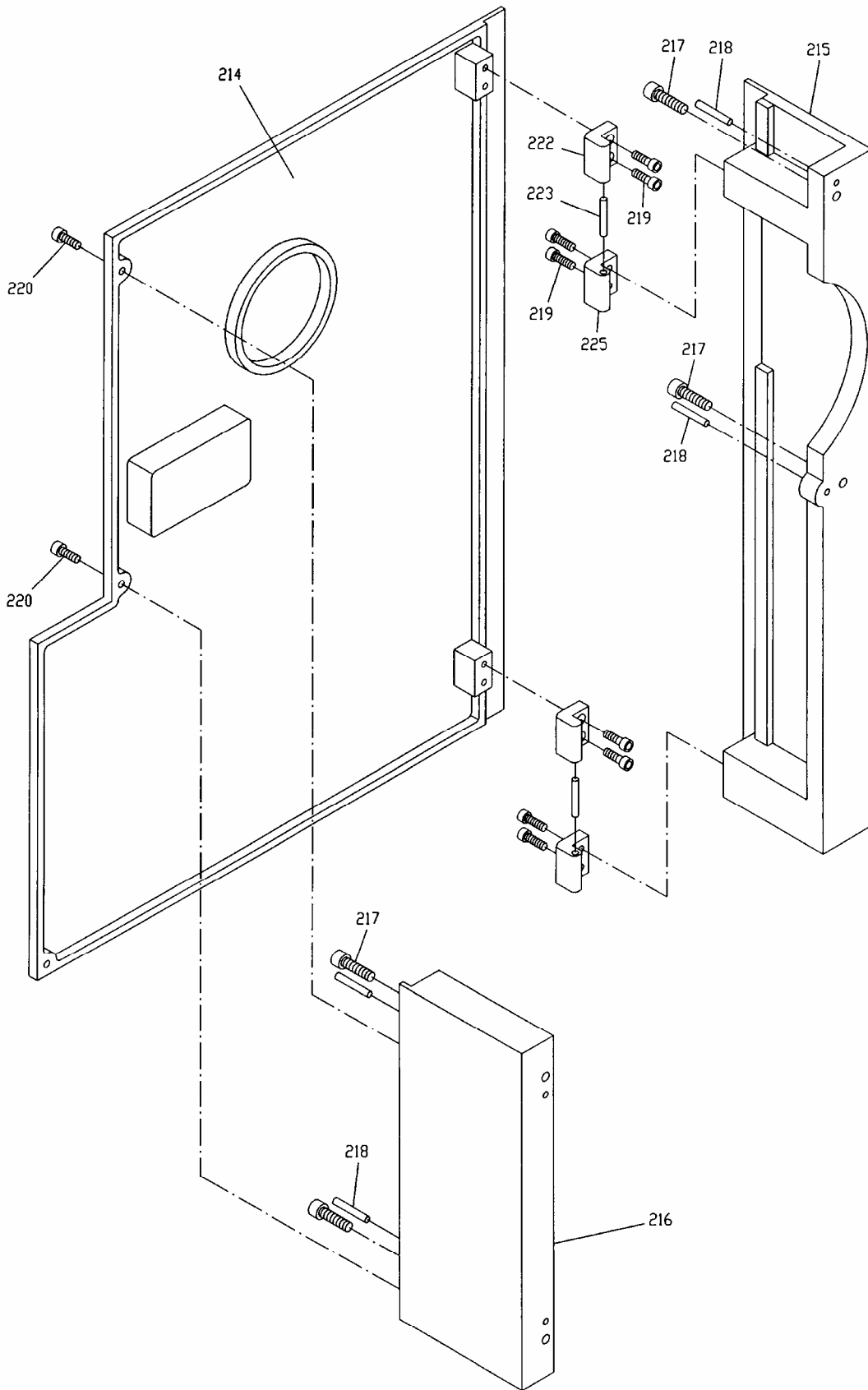
Headstock Assembly III



Headstock Assembly III

Index No.	Part No.	Description	Size	Qty.
152	ZX-02704	Spindle		1
153	ZX-H153	Flat Key	10x8x40	1
154	ZX-H154	Flat Key	10x8x50	1
155	ZX-H155	Flat Key	12x8x50	1
156	ZX-H156	Flat Key	14x9x50	1
157	ZX-02701	Cam Lock		6
158	ZX-H158	Spring	1x8x25	6
159	ZX-02703	Cam Positioning Screw		6
160	TS-1516031	Hex Socket Cap Screw	M10x28	6
161	ZX-02102	Bearing Front Cover		1
162	ZX-02501	Gasket		1
163	ZX-02702	Oil Splashing Ring		1
164	NN3024/P5	Taper Roller Bearing	120x180x46	1
165	ZX-02726	Lining		1
168	ZX-02725A	Round Nut w/Screw		1
169	ZX-02723	Gear	3m98T	1
170	ZX-02722	Gear	3m50T	1
171	ZX-02721	Gear	3m58T	1
172	ZX-02720A	Round Nut w/Screw		1
175	ZX-02710	Gear	2m65T	1
176	51120/P5	Thrust Bearing	100x135x25	1
179	BB-7020AC/P5	Angular Bearing	100x150x24	1
184	ZX-02713A	Round Nut w/Screw		1
212	ZX-H212	Drain Plug (14" models, Serial #001204ZX258 and lower)		1
		Drain Plug (16" models, Serial #010312ZX293 and lower, also includes Serial #010319ZX298 & 299)		1
		Drain Plug (18" models, Serial #010416ZX313 and lower)		1
212	ZX-H212A	Drain plug (14" models, Serial #010105ZX263 and higher)		1
		Drain plug (16" models, Serial #010319ZX294 and higher, except for Serial #010319ZX298 & 299)		1
		Drain plug (18" models, Serial #010514ZX323 and higher)		1
213	ZX-02101A	Headstock Casting (14" models, Serial #001204ZX258 and lower)		1
	ZX-02101AN	Headstock Casting (14" models, Serial #010105ZX263 and higher)		1
	ZX-02101B	Headstock Casting (16" models, Serial #010312ZX293 and lower, also includes Serial #010319ZX298 & 299)		1
	ZX-02101BN	Headstock Casting (16" models, Serial #010319ZX294 and higher, except for Serial #010319ZX298 & 299)		1
	ZX-02101C	Headstock Casting (18" models, Serial #010416ZX313 and lower)		1
	ZX-02101CN	Headstock Casting (18" models, Serial #010514ZX323 and higher)		1
224	ZX-G38-3A	Screw		1
226	ZX-H226	Hex Socket Cap Screw	M8x28	9
227	ZX-02502F	Gasket		1
228	ZX-02108F	Bearing Support		1
229	ZX-02711F	Sleeve		1
230	ZX-02510F	Gasket		1
231	ZX-02761F	Bearing Back Cover		1
232	ZX-H232	Screw	M5x10	6

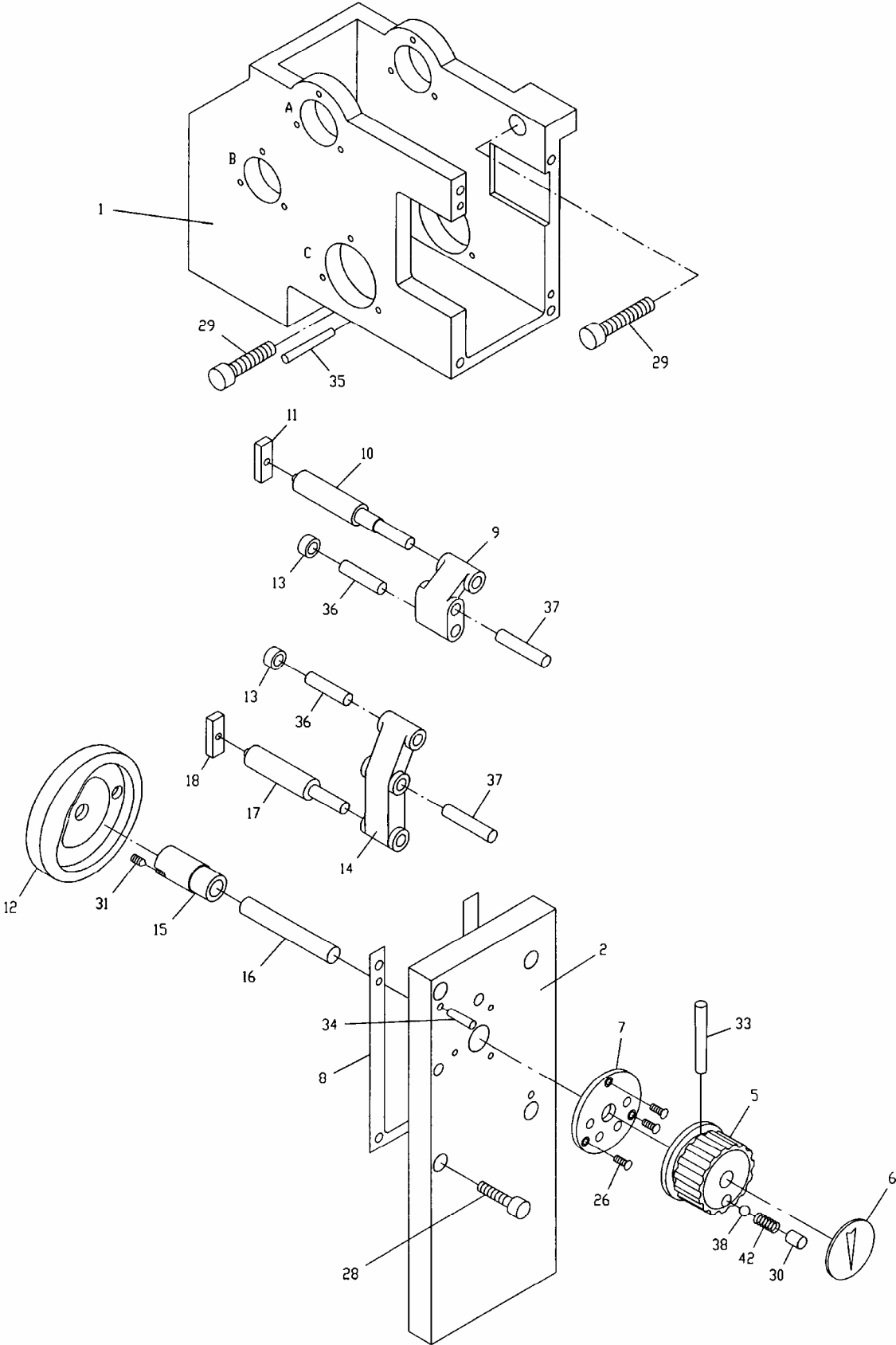
Headstock Assembly IV



Headstock Assembly IV

Index No.	Part No.	Description	Size	Qty.
214	ZX-08302A	Back Cover (for 14" models)		1
	ZX-08302B	Back Cover (for 16" models)		1
	ZX-08302C	Back Cover (for 18" models)		1
215	ZX-08114A	Rear Side plate (for 14" models)		1
	ZX-08114B	Rear Side plate (for 16" models)		1
	ZX-08114C	Rear Side plate (for 18" models)		1
216	ZX-08113A	Front Side plate (for 14" models)		1
	ZX-08113B	Front Side plate (for 16" models)		1
	ZX-08113C	Front Side plate (for 18" models)		1
217	TS-1515031	Hex Socket Cap Screw	M8x25	4
218	ZX-H218	Taper Pin	6x25	4
219	TS-1514031	Hex Socket Cap Screw	M6x20	8
220	TS-1514021	Hex Socket Cap Screw	M6x15	3
222	ZX-08712	Upper Hinge		2
223	ZX-H223	Pin	6n6x40	2
225	ZX-08711	Lower Hinge		2

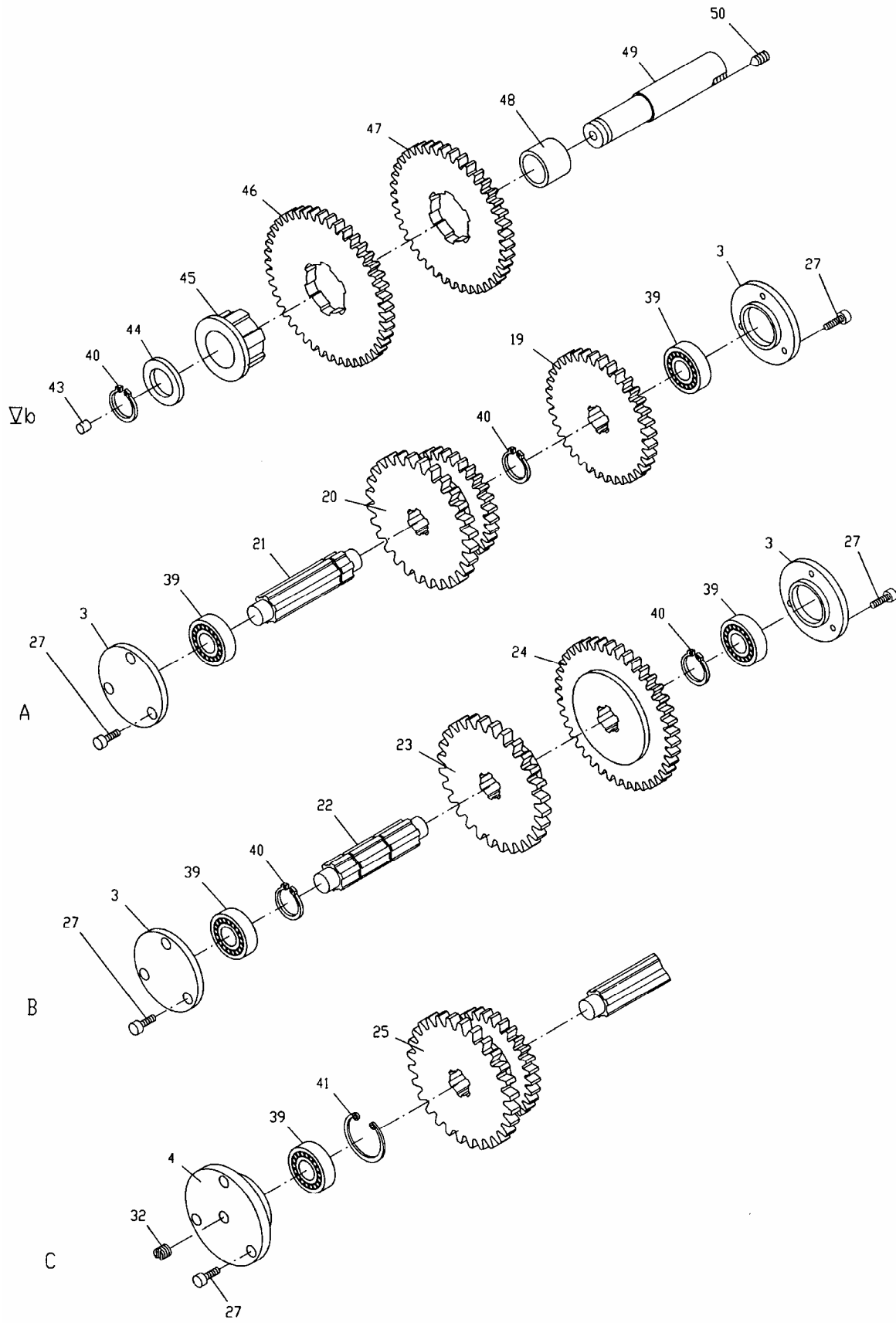
Change Gear Box Assembly I



Change Gear Box Assembly I

Index No.	Part No.	Description	Size	Qty.
1	ZX-08101	Change Gear Box Casting		1
2	ZX-08108	Front Cover		1
5	ZX-05104C	Hand Wheel		1
6	ZX-05301C	Sign Plate		1
7	ZX-08708	Positioning Disc		1
8	ZX-08505	Gasket		1
9	ZX-08111	Crank		1
10	ZX-08705	Connecting Rod		1
11	ZX-08304	Sliding Block		1
12	ZX-05103C	Cam		1
13	ZX-05702C	Roller		2
14	ZX-08109	Crank		1
15	ZX-08110	Bushing		1
16	ZX-08704	Rotating Shaft		1
17	ZX-08703	Connecting Rod		1
18	ZX-08304	Sliding Block		1
26	ZX-C26	Cross Head Screw	M4x12	3
28	TS-1515031	Hex Socket Cap Screw	M8x25	4
29	TS-1516051	Hex Socket Cap Screw	M10x40	2
30	TS-1525021	Set Screw	M10x12	1
31	ZX-C31	Flat Head Set Screw	M6x8	1
33	ZX-C33	Taper Pin	4x45	1
34	ZX-C34	Taper Pin	6x30	2
35	ZX-C35	Taper Pin	6x50	1
36	ZX-C36	Pin	10m6x40	2
37	ZX-C37	Pin	10m6x50	2
38	ZX-H5	Steel Ball	8	1
42	ZX-C42	Spring	1x8x30	1

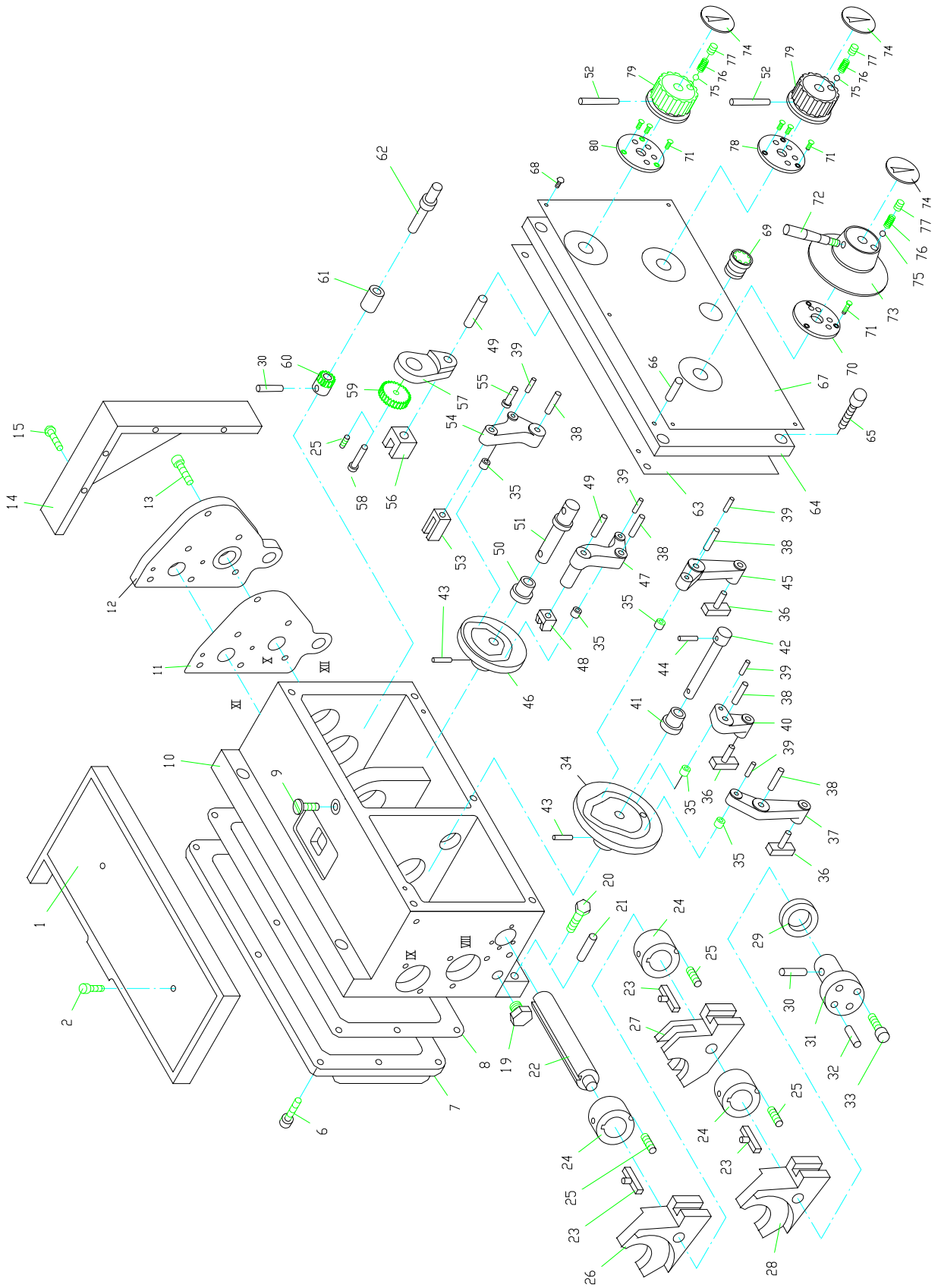
Change Gear Box Assembly II



Change Gear Box Assembly II

Index No.	Part No.	Description	Size	Qty.
3	ZX-08104	End Cover		4
4	ZX-08103	Bearing Support		1
19	ZX-08107	Gear	3m36T	1
20	ZX-08105	Double Gear	3.75m28T/3m30T	1
21	ZX-08702	Shaft		1
22	ZX-08701	Shaft		1
23	ZX-08710	Gear	3.75m27T	1
24	ZX-08709	Gear	3m41T	1
25	ZX-08102	Double Gear	3.75m30T/3m29T	1
27	ZX-C27	Slotted Cheese Head Screw	M5x12	15
32	ZX-C32	Flat Head Set Screw	M10x12	1
39	BB-6203	Ball Bearing	17x40x12	5
40	ZX-C40	C-Clip	25	4
41	ZX-C41	C-Clip	40	1
43	ZX-C43	Oil Cup	8	1
44	TNMP08108	Washer		1
45	TNMP08102	Splinted Sleeve		1
46	TNMP08504	Gear	3m45T	1
47	TNMP08501A	Plastic Gear (for 14"/16"/22" models)	3.5m35T	1
	TNMP08501B	Plastic Gear (for 18" models)	4m35T	1
48	ZX-05502C	Oil Bushing		1
49	ZX-08707	Shaft Vb		1
50	ZX-C50	Flat Head Set Screw	M8x10	1

Quick Change Gear Box I

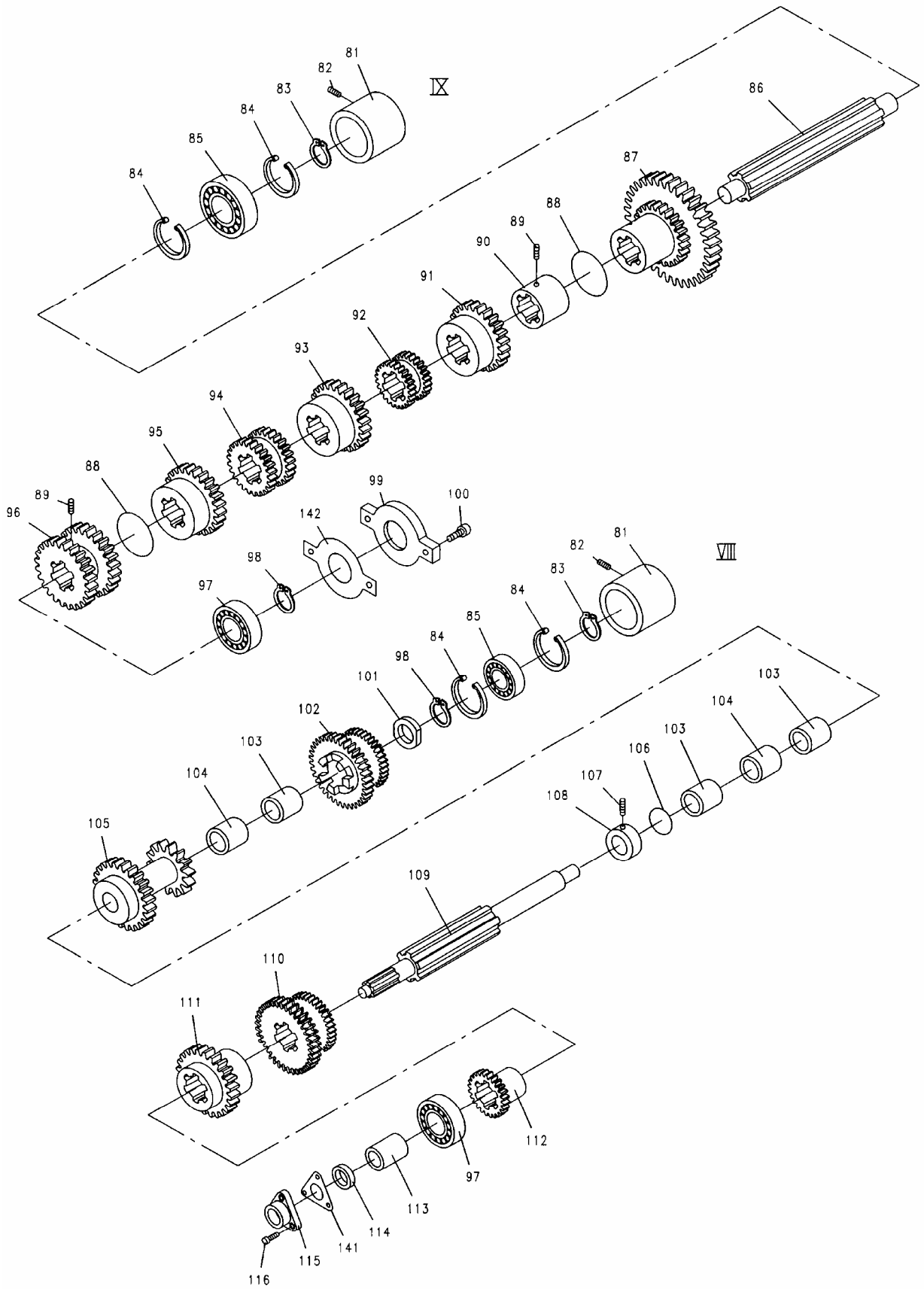


Quick Change Gear Box I

Index No.	Part No.	Description	Size	Qty.
1	ZX-05153A	Upper Cover		1
2	TS-1514051	Hex Socket Cap Screw	M6x30	2
6	TS-1515011	Hex Socket Cap Screw	M8x16	10
7	ZX-05109	Rear Cover		1
8	ZX-05502	Gasket		1
9	ZX-Q09	Countersunk Head Screw	M10x18	1
10	ZX-05101	Feedbox Casting		1
11	ZX-05501	Gasket		1
12	ZX-05108	Flange		1
13	TS-1515011	Hex Socket Cap Screw	M8x16	6
14	ZX-05151	Extending Plate		1
15	TS-1503131	Hex Socket Cap Screw	M6x60	4
19	ZX-Q19	Hex Cap Bolt	M10x1	1
20	TS-1491061	Hex Cap Bolt	M10x40	2
21	ZX-H68	Taper Pin	6x35	2
22	ZX-05738	Control Shaft		1
23	ZX-05739	Sliding Key		3
24	ZX-05128	Sliding Sleeve		3
25	ZX-Q25	Flat Head Set Screw	M5x8	4
26	ZX-05125	Right Fork		1
27	ZX-05126	Middle Fork		1
28	ZX-05127	Left Fork		1
29	ZX-Q29	Ring Seal	32x3.1	1
30	ZX-Q30	Taper Pin	4x25	2
31	ZX-05129	Cover		1
32	ZX-Q32	Pin	5n6x15	1
33	ZX-Q33	Cheese Head Screw	M5x16	3
34	ZX-05122	Cam		1
35	ZX-05728	Rolling Sleeve		5
36	ZX-05729	Poking Key		3
37	ZX-05123	Crank		1
38	ZX-Q38	Pin	8n6x32	5
39	ZX-Q39	Pin	6n6x20	5
40	ZX-05124	Crank		1
41	ZX-05111	Sleeve		1
42	ZX-05726	Lever Shaft		1
43	ZX-Q43	Taper Pin	4x32	2
44	ZX-Q44	Taper Pin	4x65	1
45	ZX-05121	Crank		1
46	ZX-05118	Cam		1
47	ZX-05120	Crank		1
48	ZX-05116	Fork		1
49	ZX-Q49	Pin	8n6x18	2
50	ZX-05117	Sleeve		1
51	ZX-05737	Lever Shaft		1
52	ZX-C33	Taper Pin	4x45	2
53	ZX-05115	Fork		1
54	ZX-05119	Crank		1
55	ZX-05735	Pin		1
56	ZX-05112	Fork		1
57	ZX-05113	Crank		1
58	ZX-05730	Small Shaft		1
59	ZX-05731	Big Gear	1m44T	1
60	ZX-05732	Small Gear	1m22T	1

Index No.	Part No.	Description	Size	Qty.
61	ZX-05114	Sleeve		1
62	ZX-05734	Lever Shaft		1
63	ZX-05503	Gasket		1
64	ZX-05110	Front Cover		1
65	TS-1516011	Hex Socket Cap Screw	M10x20	5
66	ZX-Q66	Taper Pin	5x35	6
67	ZX-05303A	Sign Plate		1
68	ZX-Q68	Cross Head Screw	M3x6	7
69	ZX-Q69	Oil Sight Glass	20	1
70	ZX-05727	Positioning Disc		1
71	ZX-Q71	Countersunk Head Screw	M4x12	9
72	ZX-05740	Lever		1
73	ZX-05130A	Lever Support		1
74	ZX-05301	Sign Disc		3
75	ZX-H5	Steel Ball	8	3
76	ZX-Q76	Compression Spring	YZ-1x8x25	3
77	ZX-H3	Flat End Set Screw	M10x12	3
78	ZX-05736	Positioning Disc		1
79	ZX-05140	Hand Wheel		2
80	ZX-05733	Positioning Disc		1

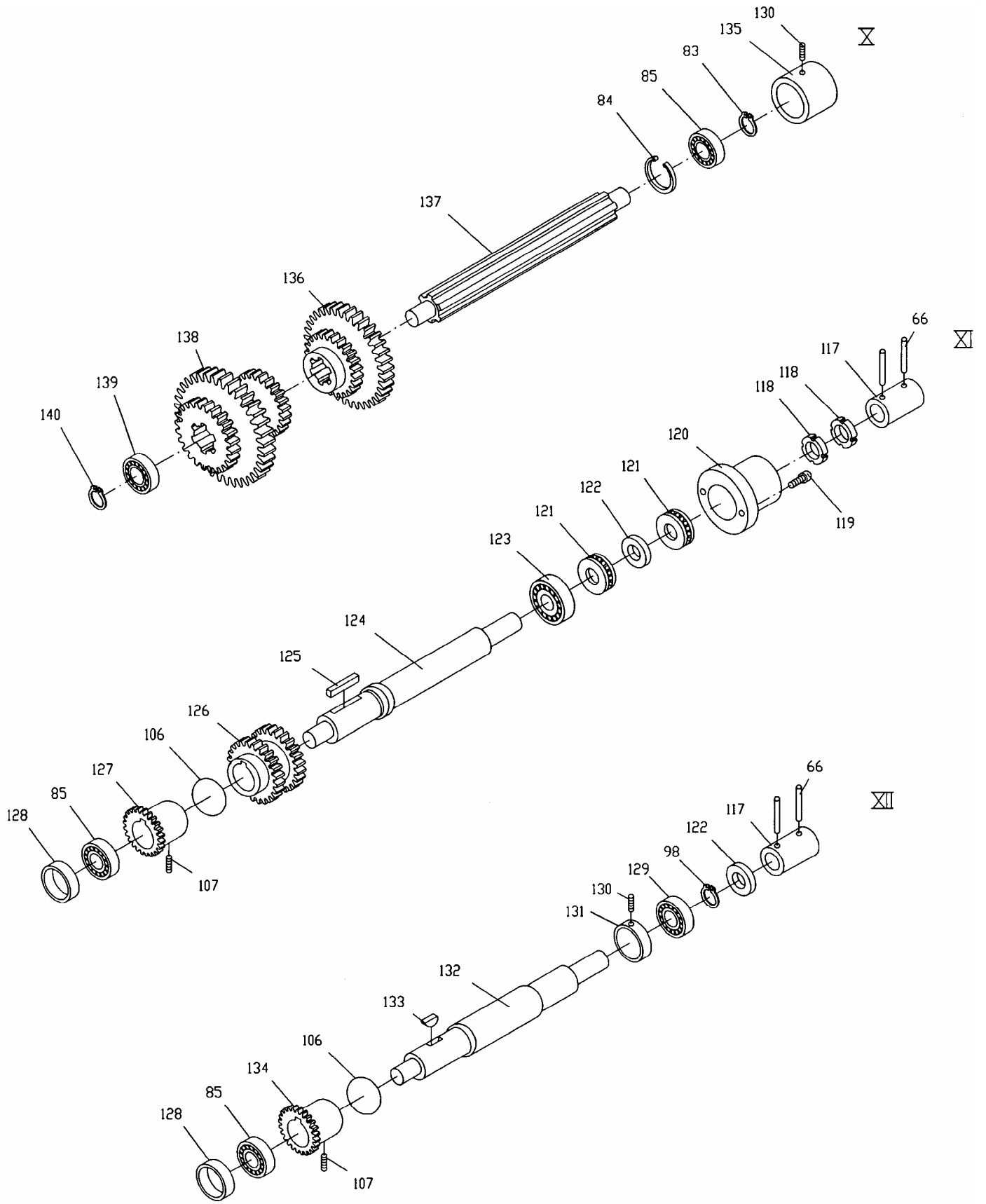
Quick Change Gear Box II



Quick Change Gear Box II

Index No.	Part No.	Description	Size	Qty.
81	ZX-05104	Middle Bearing Support		2
82	ZX-Q82	Taper End Set Screw	M10x16	2
83	ZX-B23	C-Clip	20	3
84	ZX-Q84	C-Clip	42	5
85	BB-6004	Single Row Radial Ball Bearing	20x42x12	5
86	ZX-05721	Shaft		1
87	ZX-05722	Double Gear	2m26T/2m52T	1
88	ZX-Q88	Iron Wire	1x190	2
89	TS-1524051	Set Screw	M8x20	2
90	ZX-05720	Positioning Sleeve		1
91	ZX-05719	Gear	2.25m28T	1
92	ZX-05718	Double Gear	2m26T/2m28T	1
93	ZX-05717	Gear	3.5m20T	1
94	ZX-05716	Double Gear	3.5m18T/3.5m19T	1
95	ZX-05715	Gear	3.25m22T	1
96	ZX-05714	Double Gear	3.25m24T/3.25m23T	1
97	BB-6205	Single Row Radial Ball Bearing	25x52x15	2
98	ZX-C40	C-Clip	25	3
99	ZX-05125	Shaft End Cover		1
100	TS-1515011	Hex Socket Cap Screw	M8x18	2
101	ZX-05704	Spacer		1
102	ZX-05705	Double Gear	2m52T/2m26T	1
103	ZX-05502C	Oil Bushing		3
104	ZX-05105	Sleeve		2
105	ZX-05707	Double Gear	2m39T/2m26T	1
106	ZX-Q106	Iron Wire	1x160	3
107	TS-1524031	Set Screw	M8x12	3
108	ZX-05714C	Fixed Bushing		1
109	ZX-05710	Shaft		1
110	ZX-05709	Double Gear	2m48T/2.25m42T	1
111	ZX-05711	Sliding Gear	3.5m24T	1
112	ZX-05712	Sliding Gear	3.25m24T	1
113	ZX-05713	Sleeve		1
114	ZX-G51-1	Spacer	32	1
115	ZX-05106	Bearing Support		1
116	TS-1515031	Hex Socket Cap Screw	M8x25	3
141	ZX-05504	Gasket		1
142	ZX-05505	Gasket		1

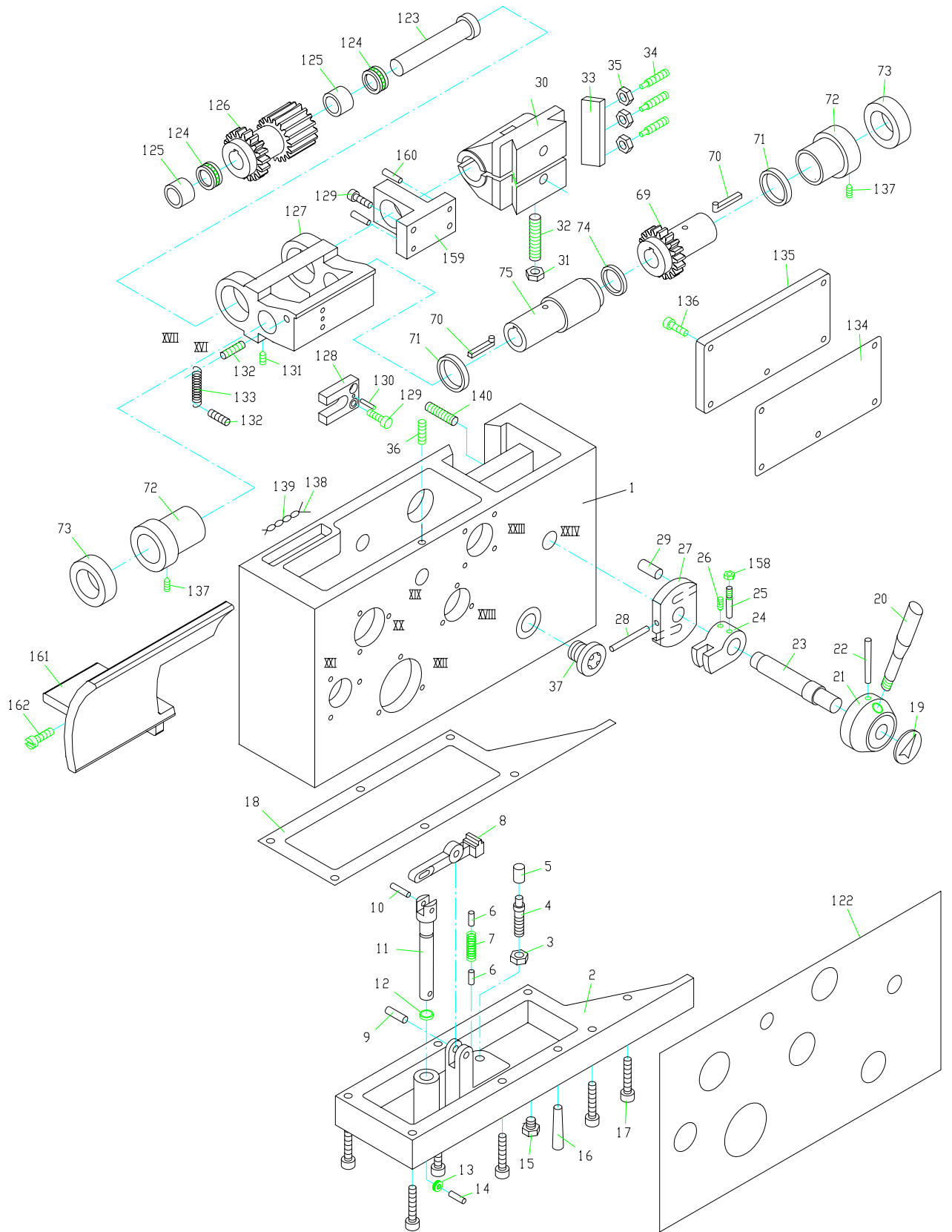
Quick Change Gear Box III



Quick Change Gear Box III

Index No.	Part No.	Description	Size	Qty.
66	ZX-Q66	Taper Pin	5x35	6
83	ZX-Q83	C-Clip	20	3
84	ZX-Q84	C-Clip	42	5
85	BB104	Single Row Radial Ball Bearing	20x42x12	5
98	ZX-Q98	C-Clip	25	3
106	ZX-Q106	Iron Wire	1x160	3
107	TS-1524031	Set Screw	M8x12	3
117	ZX-05113C	Shaft Coupling		2
118	ZX-Q118	Round Nut	M24x1.5	2
119	TS-1503021	Hex Socket Cap Screw	M6x10	2
120	ZX-05114	Cover		1
121	BB-51105	Thrust Bearing	25x42x11	2
122	ZX-Q122	Spacer	25	2
123	BB-6305	Ball Bearing	25x62x17	1
124	ZX-05725	Shaft		1
125	ZX-Q125	Key	8x7x50	1
126	ZX-05724	Double Gear	2.25m35T/2.25m36T	1
127	ZX-05723	Gear	2.5m36T	1
128	ZX-05107	Sleeve		2
129	BB-6005	Ball Bearing	25x47x12	1
130	TS-1525021	Set Screw	M10x12	2
131	ZX-05103	Bearing Support		1
132	ZX-05701	Shaft		1
133	ZX-Q133	Half Circle Key	6x22	1
134	ZX-05703	Gear	2.5m36T	1
135	ZX-05102	Bearing Support		1
136	ZX-05702	Double Gear	2.5m24T/2.25m35T	1
137	ZX-05708	Shaft		1
138	ZX-05706	Triple Gear	2m39T/2m52T/2m26T	1
139	BB-6203	Ball Bearing	17x40x12	1
140	ZX-Q140	C-Clip	17	1

Apron Assembly I

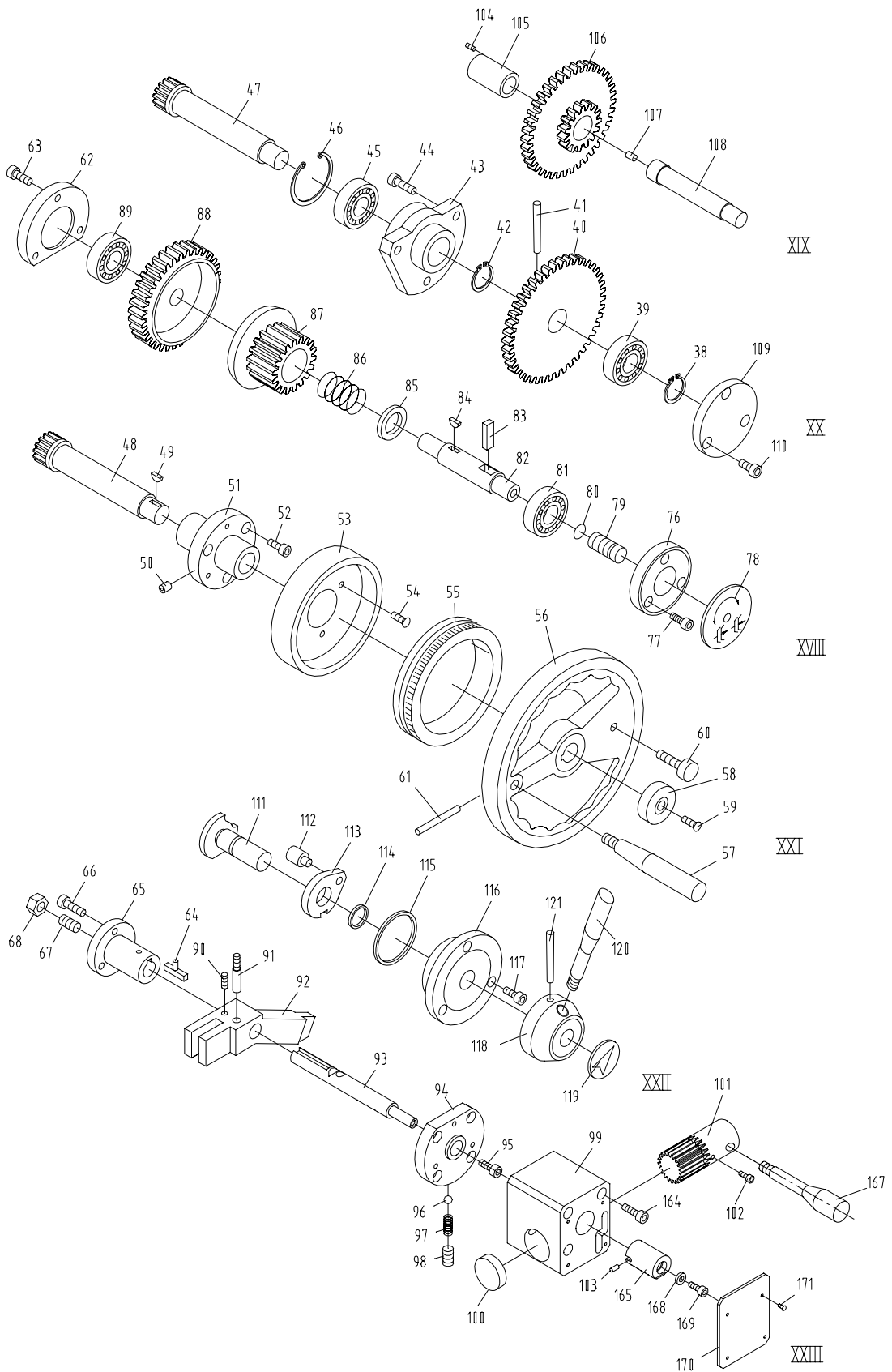


Apron Assembly I

Index No.	Part No.	Description	Size	Qty.
1	TL06101	Apron Casting		1
2	TL06103	Bottom Cover		1
3	TS-1540072	Hex Nut	M10	1
4	ZX-A04	Flat Head Set Screw	M10x70	1
5	TL06502	Cushion Cap		1
6	ZX-A06	Pin	6n6x16	2
7	ZX-A07	Tensile Spring	Y11.2x9x50	1
8	TL06734	Lever		1
9	ZX-A09	Pin	8n6x30	1
10	ZX-A10	Pin	6n6x18	1
11	TL06701-A	Pushing Rod		1
12	ZX-A12	Oil Seal	15x2.4	1
13	BB60016	Ball Bearing	6x17x6	1
14	ZX-A06	Pin	6n6x16	1
15	ZX-A15	Drain Plug	Z 1/4"	1
16	ZX-B34	Taper Pin	5x30	2
17	TS-1504041	Hex Socket Cap Screw	M8x20	6
18	TL06501	Gasket		1
19	TL06307	Sign Plate		1
20	ZX-02741	Handle		1
21	ZX-06122	Lever Support		1
22	ZX-B27	Taper Pin	6x60	1
23	TL06717	Half Nut Shaft		1
24	TL06111	Positioning Block		1
25	ZX-A25	Thread Tail Taper Pin	6x25	1
26	TS-1523031	Set Screw	M6x10	1
27	ZX-06733	Half Nut Control Plate		1
28	ZX-A28	Taper Pin	6x55	1
29	ZX-06732	Pin		2
30	ZX-06302	Half Nut (serial # 010611ZX349 and lower)		1
	ZX-06302N	New Half Nut (serial # 010618ZX350 and higher)		1
31	TS-1540072	Hex Nut	M10	1
32	ZX-A32	Cylindrical End Set Screw	M10x60	1
33	ZX-06121	Gib		1
34	ZX-06731	Cylindrical End Set Screw		3
35	TS-1540061	Hex Nut	M8	3
36	ZX-A36	Set Screw	M8x32	1
37	ZX-A37	Oil Sight Glass	20	1
69	TL06727	Gear (serial # 010611ZX349 and lower)	2m25T	1
	TL06727N	New Gear (serial # 010618ZX350 and higher)	2m25T	1
70	TL06728	Sliding Key		2
71	TL06121	Spacer (serial # 010611ZX349 and lower)		2
	TL06121N	New Spacer (serial # 010618ZX350 and higher)		2
72	TL06304	Positioning Sleeve (serial # 010611ZX349 and lower)		2
	TL06304N	New Positioning Sleeve (serial # 010618ZX350 and higher)		2
73	ZX-A73	Ring Seal For Rotating	3x55	2
74	ZX-A74	Oil Seal	35x3.1	1
75	TL06729	Sleeve (serial # 010611ZX349 and lower)		1
	TL06729N	New Sleeve (serial # 010618ZX350 and higher)		1
122	TL06302	Sign Plate		1
123	TL06730	Shaft		1
124	BB-51104	Thrust Bearing		2
125	TL06305	Sleeve		2
126	TL06726	Worm (serial # 010611ZX349 and lower)		1
	TL06726N	New Worm (serial # 010618ZX350 and higher)		1
127	TL06122	Worm Support (serial # 010611ZX349 and lower)		1

Index No.	Part No.	Description	Size	Qty.
	TL06122N	New Worm Support (serial # 010618ZX350 and higher)		1
128	TL06720	Control Plate		1
129	TS-1514031	Hex Socket Cap Screw	M6x20	4
130	ZX-A130	Taper Pin	4x20	1
131	TS-1524031	Set Screw	M8x12	2
132	ZX-A132	Screw	M8x25	2
133	ZX-A133	Cylindrical Tensile Spring	LI-1.6x10x58	1
134	TL06503	Gasket		1
135	TL06114	Back Cover		1
136	TS-1514011	Hex Socket Cap Screw	M6x12	5
137	ZX-A137	Set Screw	M8x30	2
138	ZX-A138	Iron Wire	1x50	2
139	ZX-A139	Oil Conducting Cord	3x100	2
140	ZX-A140	Screw	M10x40	1
158	TS-1540041	Hex Nut	M6	1
159	TL06124	Bracket		1
160	ZX-A160	Taper Pin	5x25	2
161	TL06308	Bracket		1
162	TS-1503041	Hex Socket Cap Screw	M6x16	1

Apron Assembly II

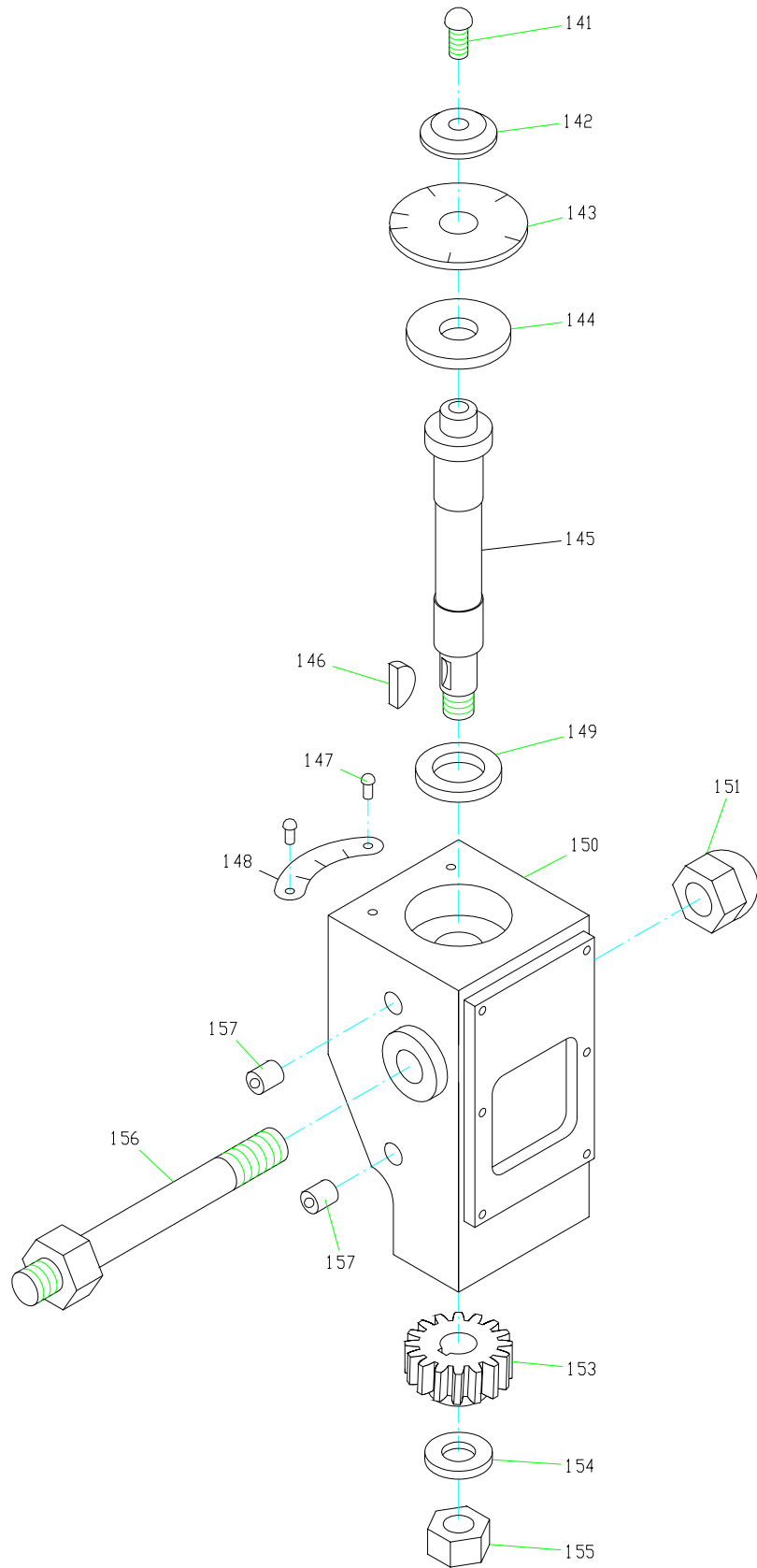


Apron Assembly II

Index No.	Part No.	Description	Size	Qty.
38	ZX-B23	C-Clip	20	1
39	BB-6204	Ball Bearing	20x47x14	1
40	TL06705	Gear	2m65T	1
41	ZX-A41	Taper Pin	6x40	1
42	ZX-C40	C-Clip	25	1
43	ZX-06127	Bearing Support (serial # 010611ZX349 and lower)		1
	ZX-06127N	New Bearing Support (serial # 010618ZX350 and higher)		1
44	TS-1504041	Hex Socket Cap Screw	M8x18	3
45	BB-6205Z	Ball Bearing	25x52x15	1
46	ZX-A46	C-Clip	52	1
47	TL06704	Shaft (serial # 010611ZX349 and lower)	2m14T	1
	TL06704N	New Shaft (serial # 010618ZX350 and higher)	2m14T	1
48	TL06706	Hand Wheel Shaft	2mx15T	1
49	ZX-H10	Half Circle Key	4x16	1
50	ZX-A50	Oil Cup	8	1
51	TL06104	Lever Support		1
52	TS-1514031	Hex Socket Cap Screw	M6x18	3
53	TL06105	Dial Support		1
54	ZX-A54	Cross Head Screw	M5x12	3
55	TL06732	Dial		1
56	TL06107	Hand Wheel		1
57	ZX-06710	Shaft Driven Lever		1
58	TL06709	Shaft Cover		1
59	ZX-A54	Cross Head Screw	M5x12	1
60	TL06708	Screw		1
61	TL06707	Pin		1
62	TL06112	End Cover		1
63	TS-1514011	Hex Socket Cap Screw	M6x12	3
64	TL06733	T Shaped Flat Key		1
65	TL06115	Flange Sleeve		1
66	TS-1514011	Hex Socket Cap Screw	M6x12	3
67	ZX-A67	Flat End Set Screw	M6x30	1
68	TS-1540041	Hex Nut	M6	1
76	TL06109	Flange		1
77	TS-1514011	Hex Socket Cap Screw	M6x12	3
78	TL06303	Sign Plate		1
79	TL06714	Adjusting Screw		1
80	ZX-A80	Oil Seal	8x1.9	1
81	BB-7203	Ball Bearing	17x40x12	1
82	TL06713	Shaft		1
83	TL06715	Adjusting Rod		1
84	ZX-H10	Half Circle Key	4x16	1
85	TL06712	Spring Cover		1
86	ZX-A86	Spring	YI-5x35x50	1
87	TL06718	Gear	2m28T	1
88	TL06113	Helical Gear	2.5m40T	1
89	BB7006/P6	Ball Bearing	30x55x13	1
90	TS-1523031	Set Screw	M6x10	1
91	ZX-A25	Thread Tail Taper Pin	6x25	1
92	TL06110	Fork		1
93	ZX-06721E	Control Rod		1
94	ZX-06116E	Lever Support		1
95	ZX-A95E	Cross Head Screw	M6x30	1
96	ZX-H5	Steel ball	8	1
97	ZX-A97	Spring	YI-1x7x25	1
98	ZX-A98	Flat Head Set Screw	M10x16	1

Index No.	Part No.	Description	Size	Qty.
99	ZX-06737E	Bracket		1
100	ZX-06741E	Plug		1
101	ZX-06739E	Gear Shaft		1
102	ZX-A102E	Hex Head Screw	M4x8	1
103	ZX-A103E	Pin	4x8	1
104	ZX-A104	Flat Head Set Screw	M4x8	1
105	TL06301	Sleeve		1
106	TL06710	Gear	2m21T/2m57T	1
107	ZX-A107	Pin	6n6x8	1
108	TL06711	Shaft		1
109	TL06108	End Cover		1
110	TS-1514011	Hex Socket Cap Screw	M6x12	3
111	TL06723	Control Shaft		1
112	TL06725	Pin		1
113	TL06724	Control Block		1
114	ZX-A114	Oil Seal	20x2.4	1
115	ZX-A115	Oil Seal	50x3.1	1
116	TL06119	Lever Flange		1
117	TS-1514011	Hex Socket Cap Screw	M6x12	3
118	TL06118	Lever Support		1
119	TL06307	Sign Plate		1
120	TL06716	Lever		1
121	ZX-B27	Taper Pin	6x60	1
164	ZX-A164E	Hex Head Screw	M6x35	3
165	ZX-06738E	Rack		1
167	ZX-06740E	Handle		1
168	ZX-06736E	Washer		1
169	ZX-A169E	Hex Head Screw	M5x10	1
170	ZX-06303E	Label		1
171	ZX-A171E	Screw	M3x5	4

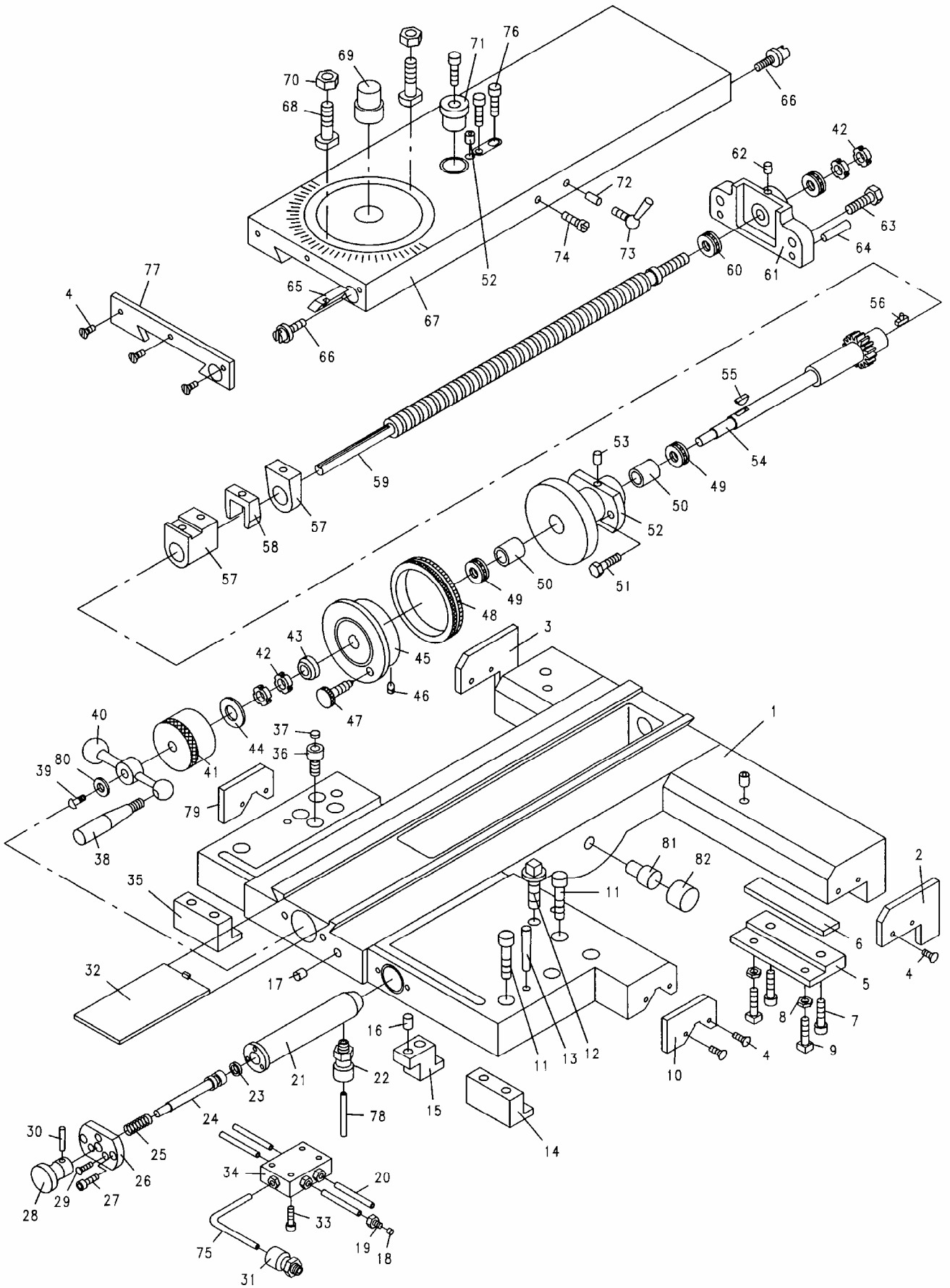
Apron Assembly III



Apron Assembly III

Index No.	Part No.	Description	Size	Qty.
141	ZX-A141	Half Round Head Screw	M6x18	1
142	ZX-11704	Washer		1
143	ZX-11301	Dial		1
144	ZX-11105	Adjusting Washer		1
145	ZX-11701	Shaft		1
146	ZX-H10	Half Circle Key	4x16	1
147	ZX-A147	Half Round Head Screw	M3x6	2
148	ZX-11303	Positioning Sign Plate		1
149	ZX-11703	Adjusting Washer		1
150	ZX-11101	Casting		1
151	ZX-A151	Acorn Nut	M12	1
153	ZX-11102E	Helical Gear	2m15T	1
154	TS-1550071	Flat Washer	M10	1
155	TS-1540072	Hex Nut	M10	1
156	ZX-11702	Bolt		1
157	ZX-A157	Oil Cup	8	2

Carriage Assembly

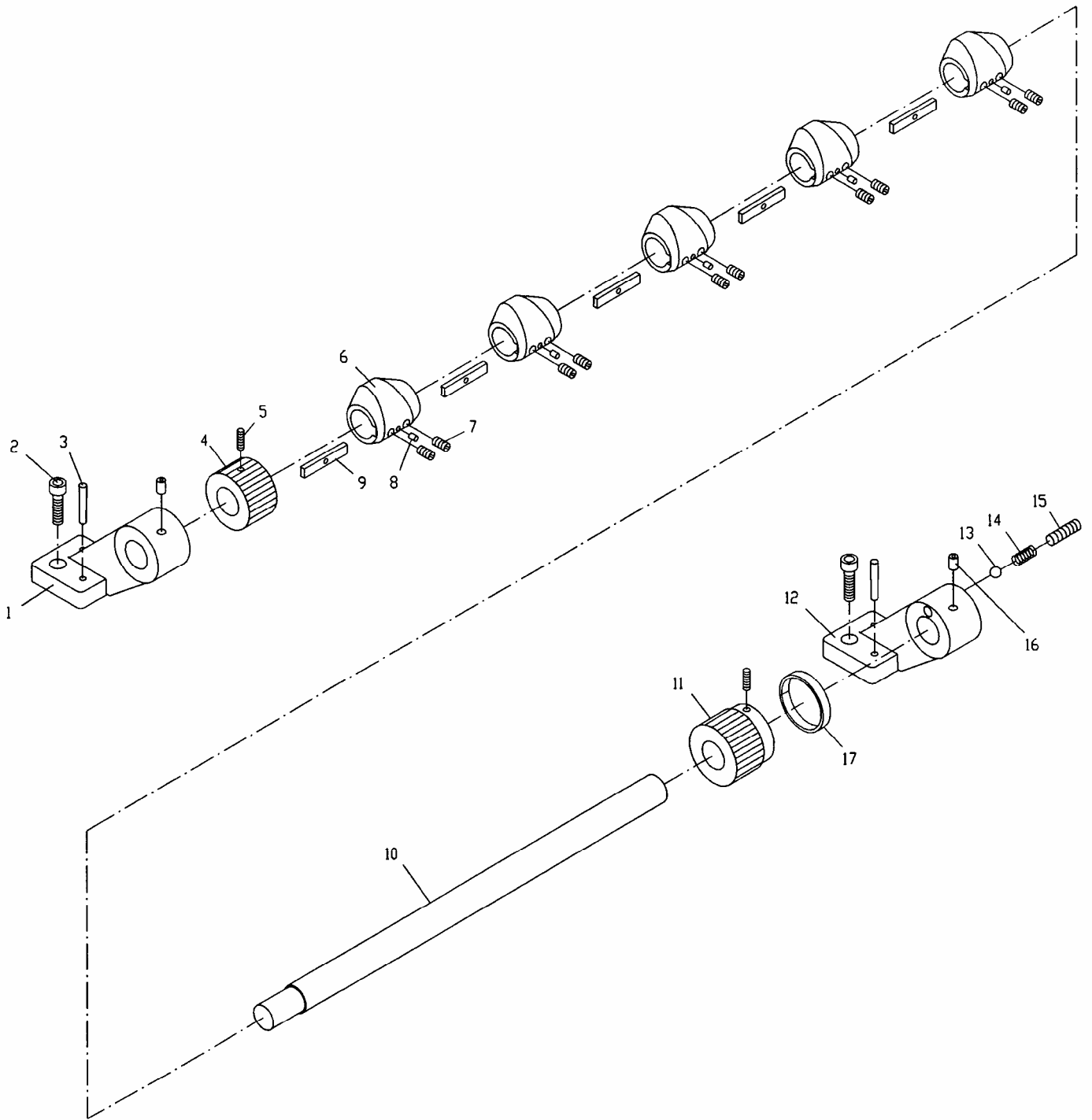


Carriage Assembly

Index No.	Part No.	Description	Size	Qty.
1	ZX-04101A	Saddle Casting		1
2	ZX-04505	Wipe Plate		1
3	ZX-04504	Wipe Plate		1
4	ZX-H211	Countersunk Head Screw	M5x16	11
5	ZX-04724	Clamping Block		2
6	ZX-04113	Lining Plate		2
7	TS-1516031	Hex Socket Cap Screw	M10x30	4
8	TS-1540061	Hex Nut	M8	4
9	ZX-CA09	Square Set Screw	M8x20	4
10	ZX-04506	Wipe Plate		1
11	TS-1505071	Hex Socket Cap Screw	M10x45	8
12	ZX-CA12	Square Cap Bolt	M12x60	1
13	ZX-CA13	Taper Pin	8x60	2
14	ZX-04729	Clamping Block		1
15	ZX-04730	Locking Plate		1
16	ZX-CA16	Pin	4n6x12	1
17	ZX-04772	Blocking Piece		1
18	ZX-CA18	Fitting Joint Seal	A4	8
19	ZX-CA19	Hollowed Bolt	A4	8
20	ZX-CA20	Copper Tube		4
21	ZX-04782	Manual Oil Pump Casting		1
22	ZX-04781A	In Valve		1
23	ZX-CA23	Oil Ring	15x2.4	1
24	ZX-04784	Piston		1
25	ZX-CA25	Spring	1.2x14x65	1
26	ZX-04785	Oil Pump Cover		1
27	TS-1513031	Hex Socket Cap Screw	M5x16	2
28	ZX-04783	Lever		1
29	ZX-CA29	Countersunk Head Screw	M4x16	3
30	ZX-A130	Taper Pin	4x20	1
31	ZX-04781B	Out Valve		1
32	ZX-04716	Chip Guard		1
33	ZX-CA33	Slotted Cheese Head Screw	M5x20	4
34	ZX-04780	Oil Distributor		1
35	ZX-04740	Clamping Block		1
36	ZX-04750	Oil Cap		1
37	ZX-04301	Oil Indicator Cap		1
38	ZX-04721	Lever		1
39	ZX-CA39	Cross Head Screw	M5x16	1
40	ZX-04720	Handle		1
41	ZX-04769	Sleeve		1
42	ZX-CA42	Round Nut	M12x1.25	4
43	ZX-04719	Lining		1
44	ZX-04770	Disc Spring		1
45	ZX-04108	Flat Pan		1
46	ZX-04790	Pushing Rod		1
47	ZX-04789	Screw		1
48	ZX-04717	Dial		1
49	BB-51102	Thrust Bearing	15x28x9	2
50	ZX-04111	Sleeve		2
51	TS-1490041	Hex Cap Bolt	M8x25	2
52	ZX-04109	Screw Support		1
53	ZX-CA53	Oil Cup	8	2
54	ZX-04707-1	Gear Sliding Sleeve	2m16T	1
55	ZX-H10	Half Circle Key	4x16	1
56	ZX-04751	Flat Key		1

Index No.	Part No.	Description	Size	Qty.
57	ZX-04302	Nut Assembly		1
58	ZX-04748	Wedge		1
59	ZX-04707-2	Lead Screw		1
60	BB-51101/P6	Thrust Bearing	12x26x9	2
61	ZX-04116	Bracket		1
62	ZX-CA62	Oil Cup	6	1
63	TS-1491041	Cap Screw	M10x30	2
64	ZX-CA64	Taper Pin	8x30	2
65	ZX-04731	Cross Slide Gib		1
66	ZX-04725C	Screw		2
67	ZX-04102A	Cross Slide		1
68	ZX-04714	Screw (for 18" models, T-Slot)		2
	ZX-04714C	Screw (for 14"/16" models, T-Slot)		2
69	ZX-04732	Pin		1
70	TS-1540081	Hex Nut	M12	2
71	ZX-04709	Sleeve		1
72	ZX-04304	Pressing Pin	1	1
73	ZX-04746	Screw		1
74	ZX-04786	Set Screw		1
75	ZX-CA75	Long Copper Tube		1
76	ZX-C76	Socket Head Cap Screw	M8x22	3
77	ZX-04502	Wipe Plate		1
78	ZX-CA78	Copper Tube		6
79	ZX-04503	Wipe Plate		1
80	ZX-04771	Lining		1
81	ZX-04788	Stop Pin		1
82	ZX-04507	Stop Pin Cap		1
	ZX-CSNA	Crossfeed Screw & Nut Assy. (includes # 57- 59. for 14/16/18")		
	ZX-CDA	Crossfeed Dial Assy. (includes # 41-50, 51-56. for 14/16/18")		

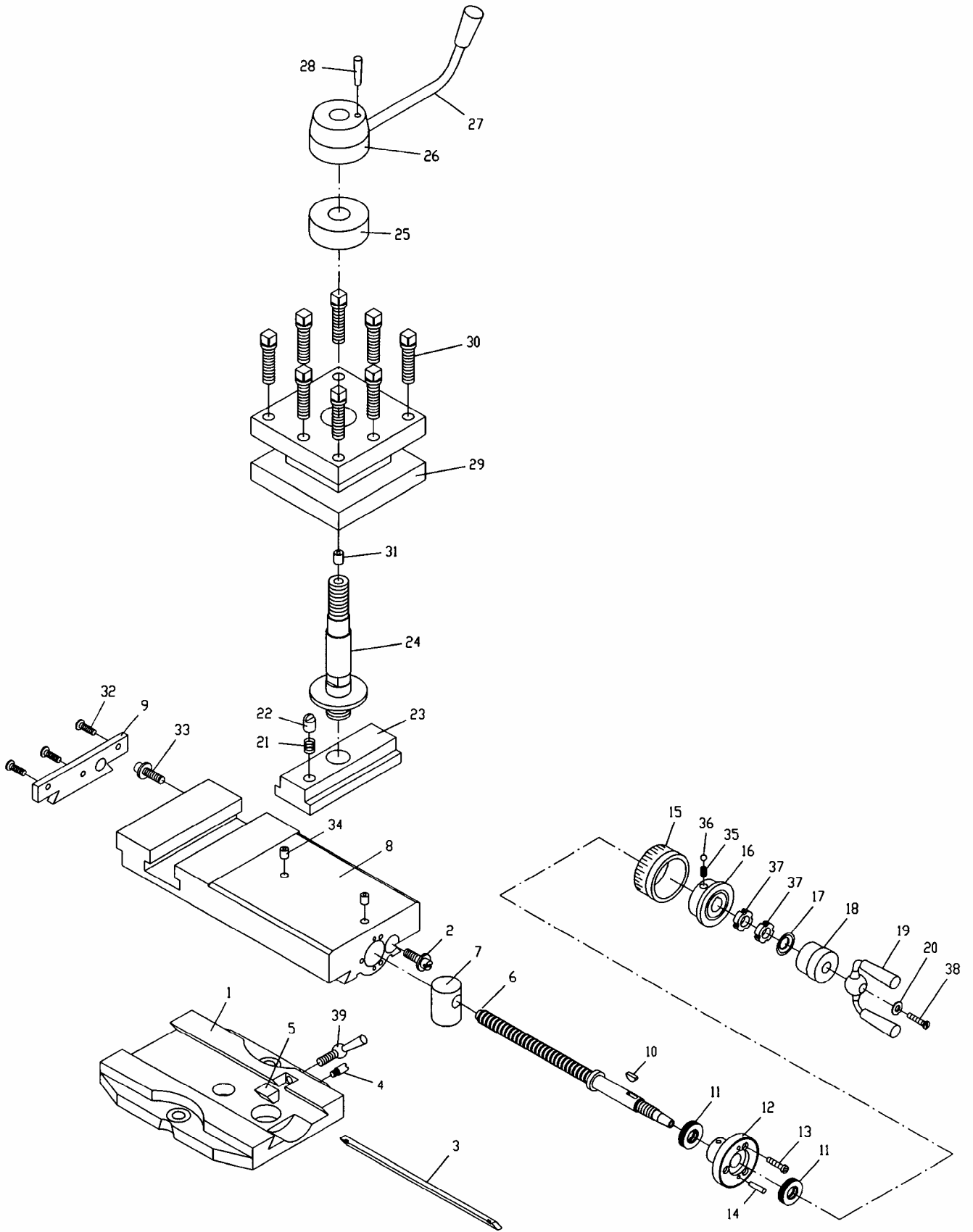
Carriage Stop Assembly



Carriage Stop Assembly

Index No.	Part No.	Description	Size	Qty.
1	ZX-26101	Left Support		1
2	TS-1504041	Hex Socket Cap Screw	M8x20	4
3	ZX-C34	Taper Pin	6x30	4
4	ZX-26704	Control Ring		1
5	TS-1523031	Set Screw	M6x10	2
6	ZX-26702	Eccentric Travel Setting Ring		5
7	ZX-H66	Flat End Set Screw	M6x10	10
8	ZX-CS08	Pin	4n6x10	5
9	ZX-26703	Locking Key		5
10	ZX-26701A	Travel Setting Rod (for 1440/1640/1840ZX)		1
	ZX-26701B	Travel Setting Rod (for 1460/1660/1860ZX)		1
	ZX-26701C	Travel Setting Rod (for 1880ZX)		1
11	ZX-26705	Control Ring		1
12	ZX-26104	Right Support		1
13	ZX-H5	Steel Ball	8	1
14	ZX-CS14	Compression Spring	2x8x25	1
15	ZX-CS15	Flat Head Set Screw	M10x12	1
16	ZX-CS16	Oil Cup	8	2
17	ZX-26301	Dial		1

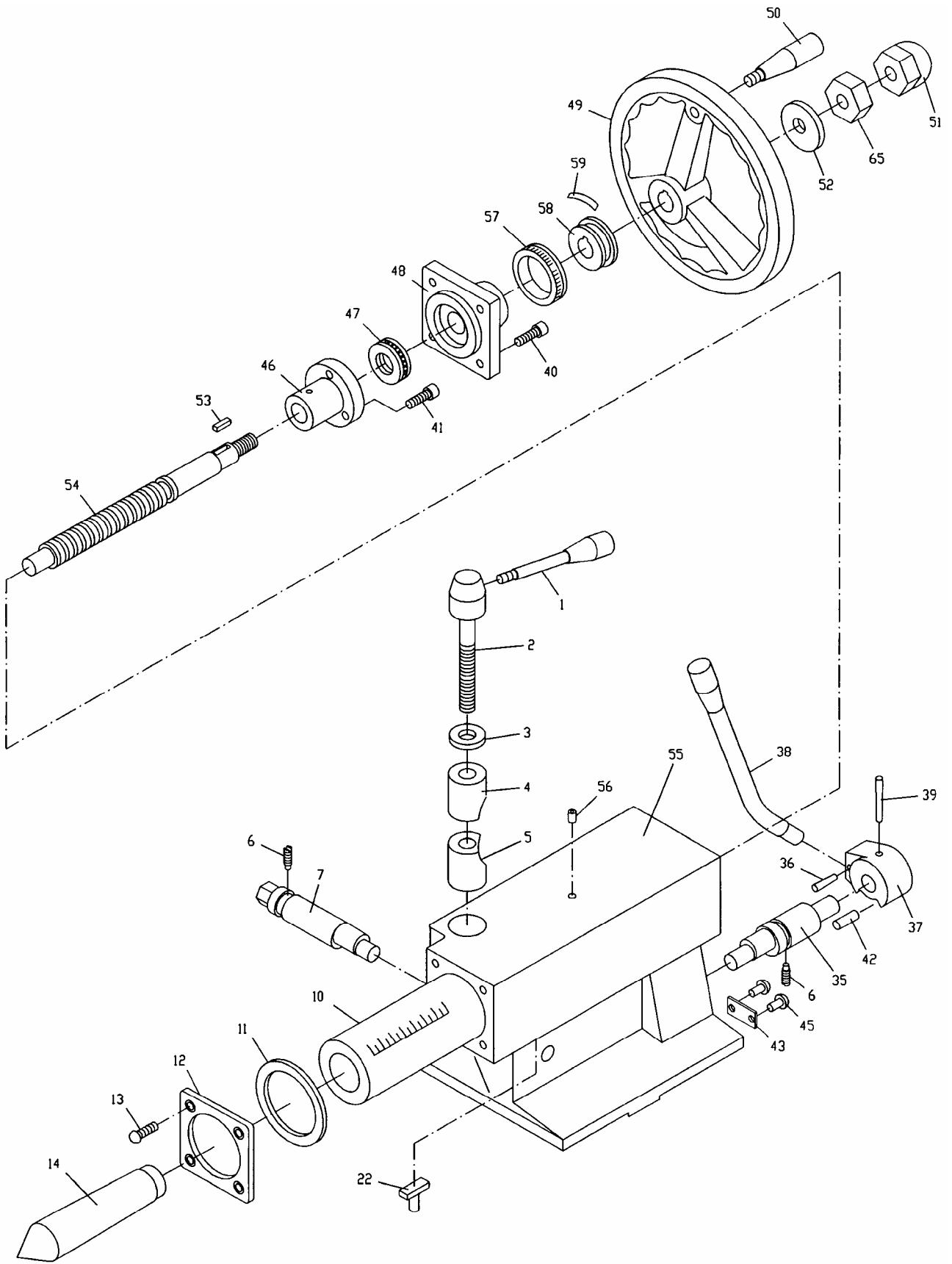
Four Way Tool Post



Four Way Tool Post

Index No.	Part No.	Description	Size	Qty.
1	ZX-04103A	Revolving Plate (for 14" models)		1
	ZX-04103B	Revolving Plate (for 16" models)		1
	ZX-04103C	Revolving Plate (for 18" models)		1
2	ZX-04725	Screw		1
3	ZX-04710	Gib		1
4	ZX-04786	Screw		1
5	ZX-04303	Pressing Block		1
6	ZX-04706	Lead Screw		1
7	ZX-04106A	Nut		1
8	ZX-04107A	Top Slide (for 14" models)		1
	ZX-04107B	Top Slide (for 16"/18" models)		1
9	ZX-04501	Wipe Plate		1
10	ZX-F10	Half Circle Key	3x13	1
11	BB-51102	Thrust Bearing	15x28x9	2
12	ZX-04115	Sleeve		1
13	ZX-F13	Slotted Cheese Head Screw	M5x12	3
14	ZX-F14	Taper Pin	3x18	2
15	ZX-04727	Dial		1
16	ZX-04114	Sleeve		1
17	ZX-04768	Disc Spring		1
18	ZX-04767	Sleeve		1
19	ZX-04726	Handle		1
20	ZX-04771	Lining		1
21	ZX-04763	Spring	0.8x6x25	1
22	ZX-04787	Positioning Block		1
23	ZX-04752A	T-Slot Nut		1
24	ZX-04754	Shaft		1
25	ZX-04759	Adjusting Lining Sheet		1
26	ZX-04110	Lever Support		1
27	ZX-04753	Handle		1
28	ZX-Q66	Taper Pin	5x35	1
29	ZX-04713A	Tool Post (for 14" models)		1
	ZX-04713B	Tool post (for 16"/18" models)		1
30	ZX-F30A	Clamping Screw (for 16"/18" models)	M12x45	8
	ZX-F30B	Clamping Screw (for 14" models)	M12x50	8
31	ZX-F31	Oil Cup	8	1
32	ZX-H211	Countersunk Head Screw	M5x16	3
33	ZX-04725C	Screw		1
34	ZX-F34	Oil Cup	8	2
35	ZX-F35	Spring	0.7x5x9	1
36	ZX-F36	Steel Ball	6	1
37	ZX-F37	Round Nut	M12x1.25	2
38	ZX-CA39	Cross Head Screw	M5x16	1
39	ZX-04746K	Screw Wrench		1
	ZX-TA14	Toolholder Assy. 14" (includes # 29 & 30)		
	ZX-TA16/18	Toolholder Assy. 16/18" (includes # 29 & 30)		
	ZX-CPA14	Compound Assy. 14" (includes # 1-20,32-39)		
	ZX-CPA16	Compound Assy. 16" (includes # 1-20,32-39)		
	ZX-CPA18	Compound Assy. 18" (includes # 1-20,32-39)		

Tailstock Assembly I



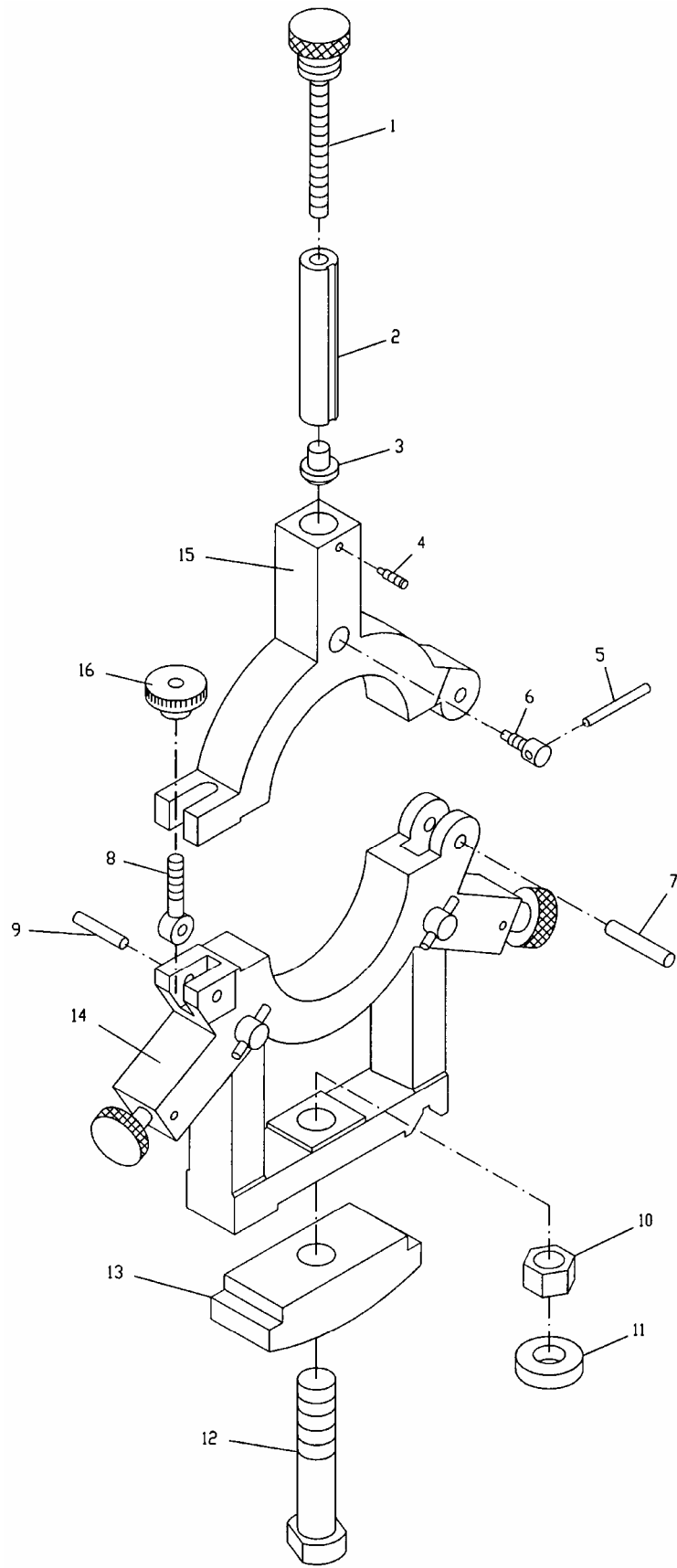
Tailstock Assembly I

Index No.	Part No.	Description	Size	Qty.
1	ZX-03711	Handle		1
2	ZX-03717	Lever Support		1
3	ZX-03718	Washer		1
4	ZX-03719	Clamping Block		1
5	ZX-03720	Clamping Block		1
6	ZX-T06	Cylindrical End Set Screw	M8x14	2
7	ZX-03712	Eccentric Shaft		1
10	ZX-03701A	Center Sleeve (for 18" models)		1
	ZX-03701B	Center Sleeve (for 14"/16" models)		1
11	ZX-T11	Ring Seal	75x2.65	1
12	ZX-03703	Front Cover		1
13	ZX-T13	Cross Recessed Countersunk Head Screw	M5x10	4
14	ZX-T14A	Center Morse (for 18" models)	No.5	1
	ZX-T14B	Center Morse (for 14"/16" models)	No.4	1
22	ZX-03702	Positioning Block		1
35	ZX-03714	Eccentric Shaft		1
36	ZX-T36	Taper Pin	6x32	1
37	ZX-03104	Lever Sleeve		1
38	ZX-03709	Lock handle		1
39	ZX-A28	Taper Pin	6x55	1
40	TS-1504041	Hex Socket Cap Screw	M8x20	4
41	TS-1515031	Hex Socket Cap Screw	M8x22	3
42	ZX-T42	Pin	10n6x22	1
43	ZX-03302	Sign Plate		1
45	ZX-T45	Nail	3x8	4
46	ZX-03105	Nut		1
47	BB-51205	Thrust Ball Bearing	25x47x15	1
48	ZX-03104	Back Cover		1
49	ZX-03103	Hand Wheel		1
50	ZX-03707	Lever		1
51	ZX-T51	Acorn Nut	M16	1
52	TS-2360161	Flat Washer	B16	1
53	ZX-T53	Key	6x40	1
54	ZX-03710A	Lead Screw (for 18" models)		1
	ZX-03710B	Lead Screw (for 14"/16" models)		1
55	ZX-03101A	Tailstock Casting (for 18" models)		1
	ZX-03101B	Tailstock Casting (for 16" models)		1
	ZX-03101C	Tailstock Casting (for 14" models)		1
56	ZX-T56	Oil Cup	8	1
57	ZX-03708	Dial		1
58	ZX-03706	Sleeve		1
59	ZX-03711C	Spring Leaf		1
65	TS-2310162	Nut	M16	1

Tailstock Assembly II

Index No.	Part No.	Description	Size	Qty.
8	ZX-T08	Flat End Set Screw (Except in 14" models)	M6x18	4
9	ZX-T09E	Spring		1
18	ZX-03714	Bearing Support (Except in 14" models)		4
19	ZX-03715	Small Axle (Except in 14" models)		4
20	ZX-T20	Ball Bearing (Except in 14" models)	7x19x6	4
21	ZX-03102A	Sliding Base (for 18" models)		1
	ZX-03102B	Sliding Base (for 16" models)		1
	ZX-03102C	Sliding Base (for 14" models)		1
23	TS-1550071	Flat Washer	M10	2
24	TS-1491151	Hex Cap Bolt (for 18" models)	M10x90	2
	TS-1491121	Hex Cap Bolt (for 16" models)	M10x70	2
	TS-1491081	Hex Cap Bolt (for 14" models)	M10x50	2
25	ZX-03704	Gib		1
26	ZX-03721C	Spherical Washer		2
27	ZX-03718C	Adjusting Screw		2
28	ZX-T28	Taper Washer	16	2
29	ZX-T29	Spherical Washer	16	2
30	TS-2310162	Hex Nut	M16	2
31	ZX-03106	Clamping Bracket		1
32	ZX-03105C	Nut		1
33	ZX-T33	Hex Socket Cap Screw	M8x85	2
34	ZX-03705A	Pulling Rod (for 18" models)		2
	ZX-03705B	Pulling Rod (for 16" models)		2
	ZX-03705C	Pulling Rod (for 14" models)		2
44	ZX-03303	Sign Plate		1
45	ZX-T45	Nail	3x8	4
60	ZX-T60	Half Round Head Screw	M5 x12	10
61	ZX-03721	Plate		1
62	ZX-03502	Wipe Plate		2
63	ZX-03503	Wipe Plate		2
64	ZX-03716	Plate		1
	ZX-TSA14	Tailstock Assy. 14" (includes # 1-13,15-65)		
	ZX-TSA16	Tailstock Assy. 16" (includes # 1-13,15-65)		
	ZX-TSA18	Tailstock Assy. 18" (includes # 1-13,15-65)		

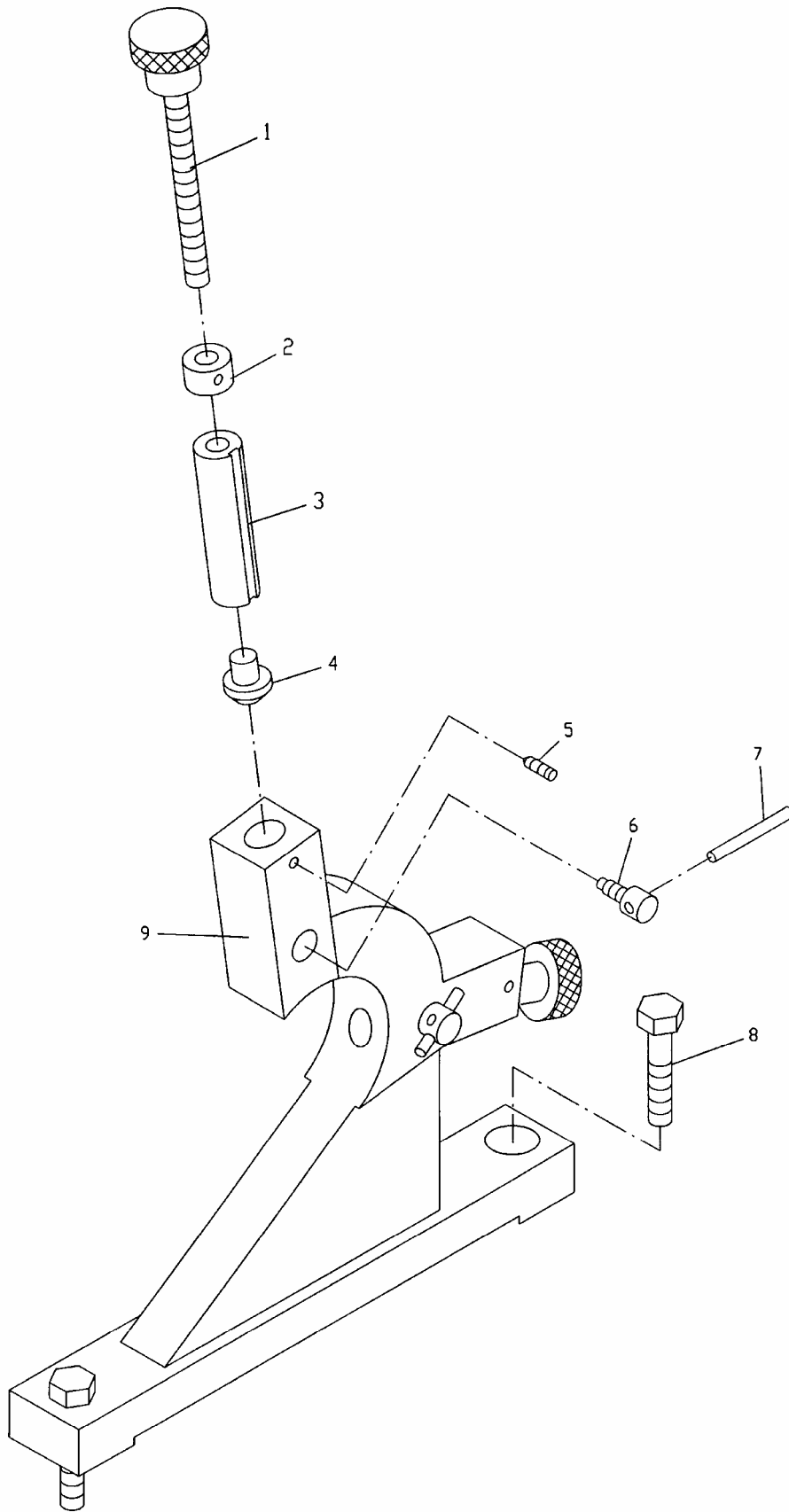
Steady Rest Assembly



Steady Rest Assembly

Index No.	Part No.	Description	Size	Qty.
1	ZX-10702A	Screw (for 14" models)		3
	ZX-10702B	Screw (for 16" models)		3
	ZX-10702C	Screw (for 18" models)		3
2	ZX-10704D	Sliding Sleeve (for 14")	0.78" - 4.33"	3
	ZX-10705D	Sliding Sleeve (for 14")	3.5" - 7"	3
	ZX-10705D	Sliding Sleeve (for 16"/18" models)		3
3	ZX-10301D	Pushing Block (for 14" models)		3
		Pushing Block (for 16"/18" models)		3
4	ZX-SR04	Slotted Set Screw	M6x20	3
5	ZX-10705	Lever		3
6	ZX-10706	Locking Screw		3
7	ZX-C36	Pin	10n6x40	1
8	ZX-10701	Hinge Screw		1
9	ZX-SR9	Pin	8n6x40	1
10	ZX-SR10	Hex Nut	M20	1
11	ZX-SR11	Flat Washer	20	1
12	ZX-10708	Tightening Screw		1
13	ZX-10103D	Clamping Plate		1
14	ZX-10101A	Lower Part of Steady Rest (for 14" models)		1
	ZX-10101B	Lower Part of Steady Rest (for 16" models)		1
	ZX-10101C	Lower Part of Steady Rest (for 18" models)		1
15	ZX-10102AS	Upper Part of Steady Rest (for 14" models)		1
	ZX-10102BS	Upper Part of Steady Rest (for 16"/18" models)		1
16	ZX-SR16	Round Nut	M10	1
	ZX-SRA14	Steady Rest Assy. 14" (includes # 1-16)		
	ZX-SRA16	Steady Rest Assy. 16" (includes # 1-16)		
	ZX-SRA18	Steady Rest Assy. 18" (includes # 1-16)		

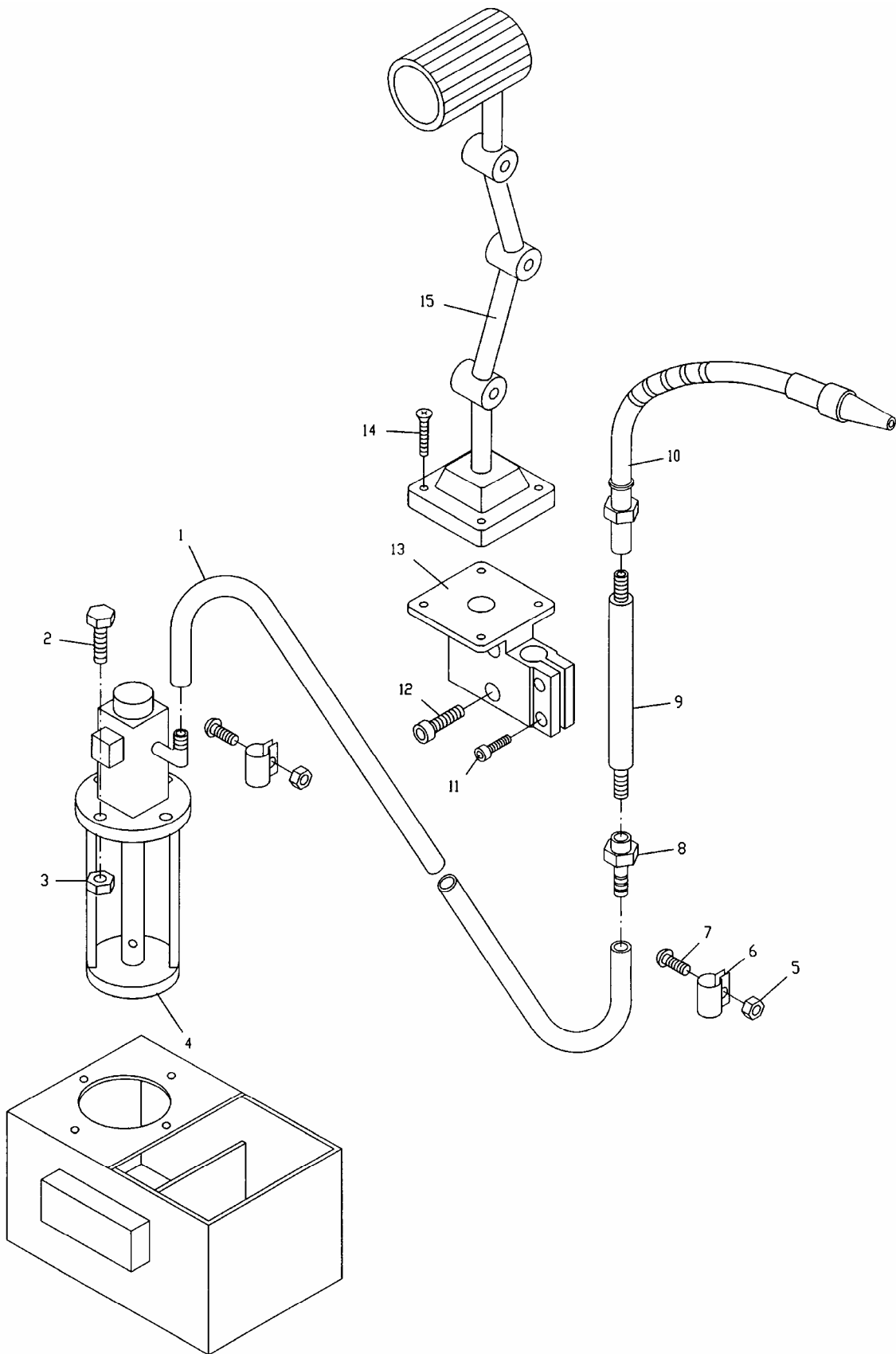
Follow Rest Assembly



Follow Rest Assembly

Index No.	Part No.	Description	Size	Qty.
1	ZX-10710	Screw		2
2	ZX-10704	Nut		2
3	ZX-10707	Sliding Sleeve		2
4	ZX-10301	Supporting Piece		2
5	ZX-FR05	Slotted Set Screw	M6x10	2
6	ZX-10705	Locking Screw		2
7	ZX-10706	Handle		2
8	ZX-FR08	Hex Cap Bolt	M12x55	2
9	ZX-10102A	Follow Rest Casting (for 14" models)		1
	ZX-10102B	Follow Rest Casting (for 16" models)		1
	ZX-10102C	Follow Rest Casting (for 18" models)		1
	ZX-FRA14	Follow Rest Assy.14" (includes # 1-7,9)		
	ZX-FRA16	Follow Rest Assy.16" (includes # 1-7,9)		
	ZX-FRA18	Follow Rest Assy.18" (includes # 1-7,9)		

Coolant & Work Light Assembly

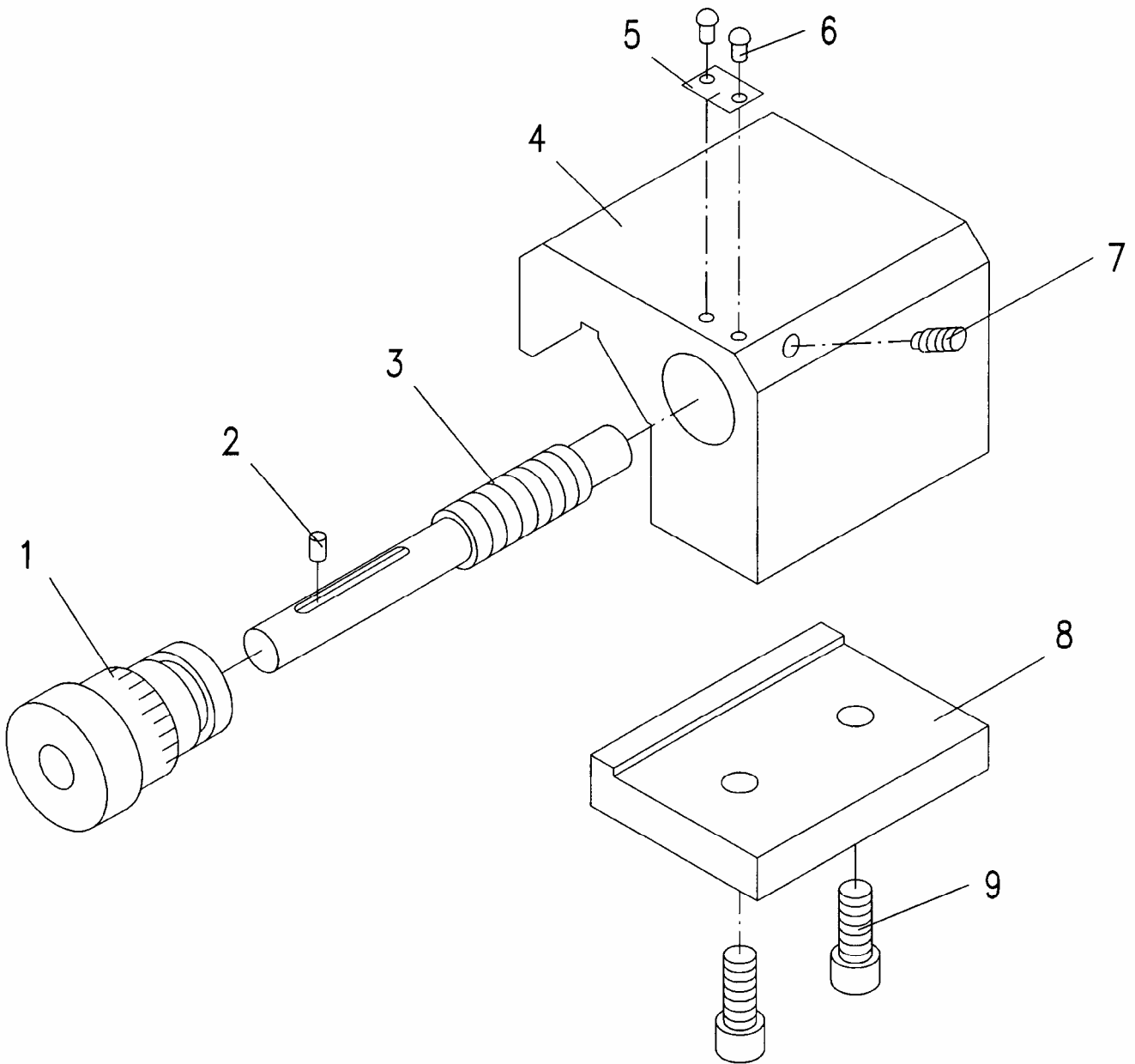


Coolant & Work Light Assembly

Index No.	Part No.	Description	Size	Qty.
1	RT-001A	Rubber Tube (for 1440/1640/1840ZX)	ID 1/2"x1280mm	1
	RT-001B	Rubber Tube (for 1460/1660/1860ZX)	ID 1/2"x1780mm	1
	RT-001C	Rubber Tube (for 1880ZX)	ID 1/2"x2280mm	1
2	ZX-CW02	Hex Cap Bolt	M5x25	4
3	ZX-CW03	Hex Nut	5	4
4	ZX-CW04E	Coolant Pump		1
5	ZX-CW05	Hex Nut	M6	2
6	ZX-01727	Clip For Rubber Tube		2
7	ZX-CW07	Half Round Head Screw	M6x16	2
8	ZX-01728	Fitting		1
9	ZX-01729	Flow Pipe		1
10	ZX-CW10	Coolant Device		1
	ZX-CW10-1	Coolant Tap	G 3/8"	1
11	TS-1514021	Hex Socket Cap Screw	M6x16	2
12	TS-1515051	Hex Socket Cap Screw	M8x40	2
13	ZX-CW13	Lamp Support		1
14	ZX-S04	Cross Head Screw	M6x14	4
15	ZX-CW 15	Lamp Frame		1
	ZX-CW16	Bulb	50W, AC24V	1
	ZX-LA	Light Assy (includes # 13-15)		

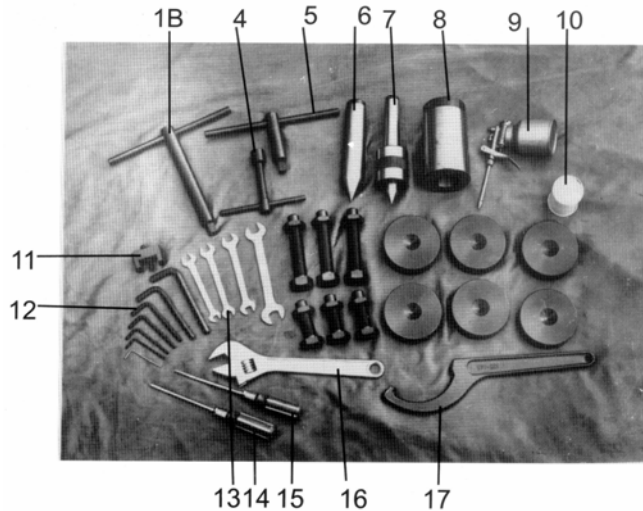
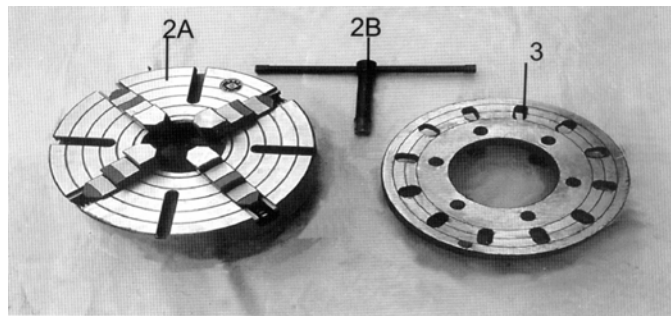
Micro Carriage Stop

Index No.	Part No.	Description	Size	Qty.
1	ZX-09709	Dial		1
2	ZX-MS2	Pin	B4x8	1
3	ZX-09708	Axle		1
4	ZX-09105	Stop		1
5	ZX-03302	Sign Plate		1
6	ZX-MS6	Nail	3x8	2
7	ZX-MS7	Hex Socket Set Screw	M6x12	1
8	ZX-09106	Clamping Plate		1
9	ZX-MS9	Hex Socket Cap Screw	M8x20	2



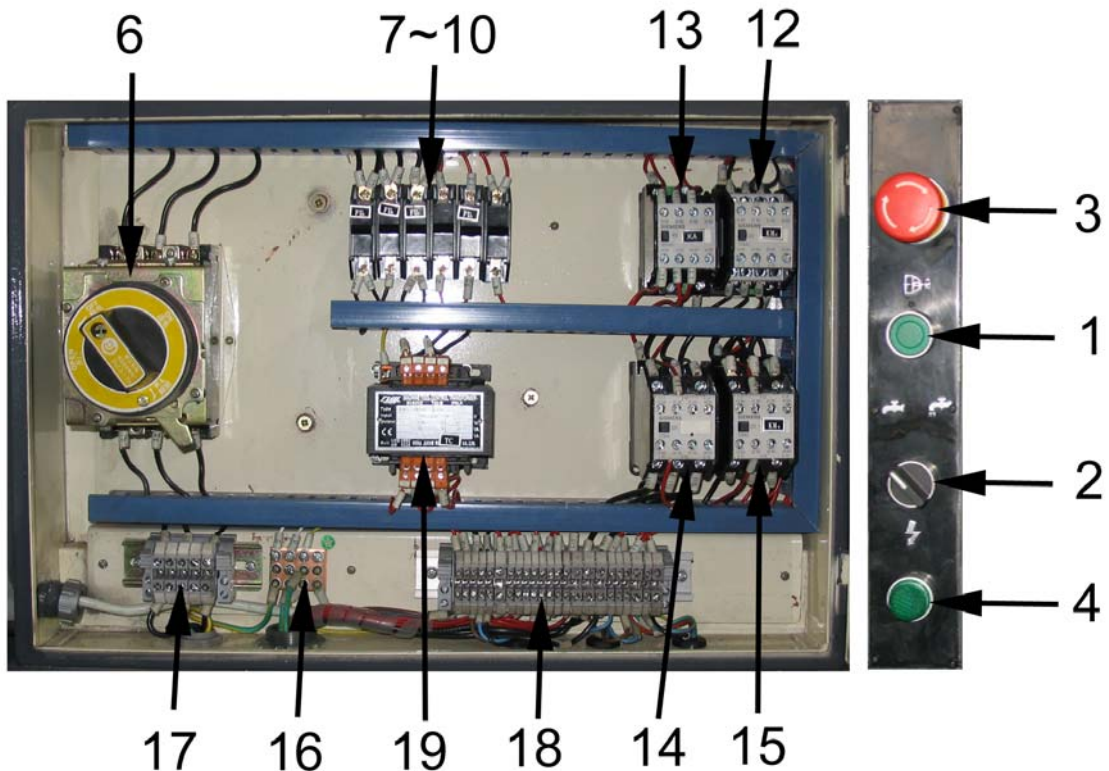
Other Parts

Index No.	Part No.	Description	Size	Qty.
1A	ZX-OP-1A	3-Jaw Chuck (mounted on lathe)	10", D1-8	1
1B	ZX-OP-1B	Chuck Wrench		1
2A	ZX-OP-2A	4-Jaw Chuck	12", D1-8	1
2B	ZX-OP-2B	Chuck Wrench		1
3	ZX-OP-03	12" Face Plate (for 14"/16" models)		1
3	ZX-OP-03N	16" Face Plate (for 18" model only)		1
4	ZX-OP-04	Tool Tightening Wrench		1
5	ZX-OP-05	Cam Tightening Wrench		1
6	ZX-OP-06	Center		1
7	ZX-OP-07	MT-4 Live Center (for 14"/16" models)		1
7	ZX-OP-07N	MT-5 Live Center (for 18" model only)		1
8	ZX-OP-08	Morse Reduction Sleeve		1
9	ZX-OP-09	Oil Gun		1
10	ZX-OP-10	Touch Painting Can		1
11	ZX-OP-11	Gap Bridge Pin Driver		1
12	ZX-OP-12	Hex Wrench	2.5,4,5,6,8,10	1
13	ZX-OP-13	Double End		1
14	ZX-OP-14	Flat Blade Screw Driver		1
15	ZX-OP-15	Cross Point Screw Driver		1
16	ZX-OP-16	Adjustable Wrench		1
17	ZX-OP-17	Round Nut Wrench		1
	ZX-14/16TBCP	Tool Box Complete (not shown)	ZX-14"/16"	
	ZX-18TBCP	Tool Box Complete (not shown)	ZX-18"	

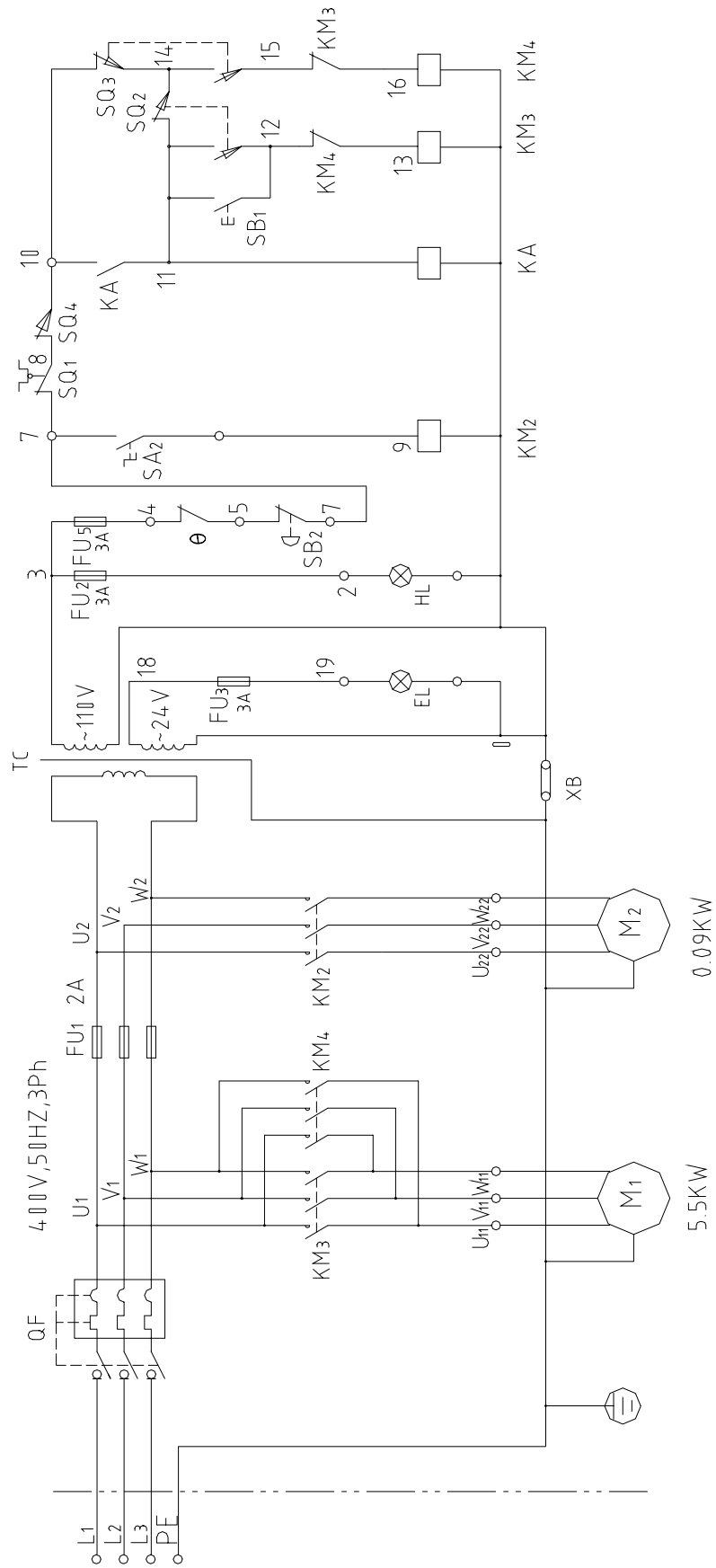


Electric Cabinet

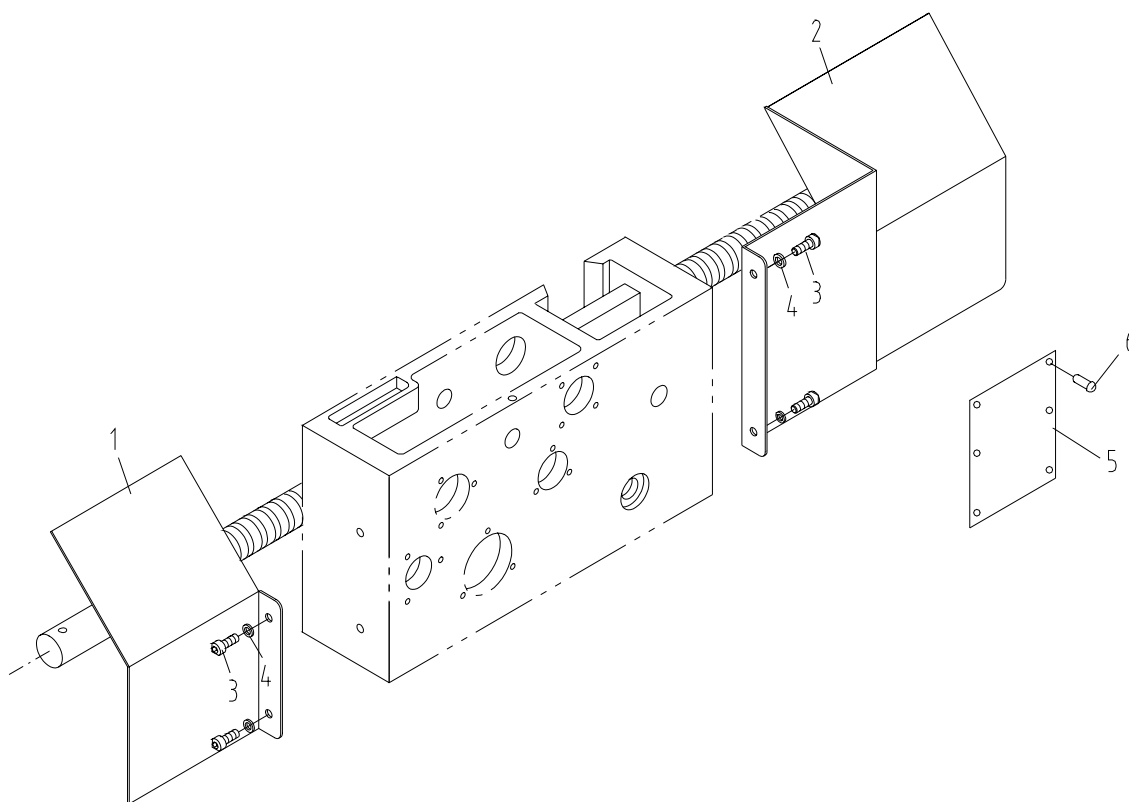
Index No.	Part No.	Description	Size	Qty.
1	ZX-SB1E	Jog Button	LAY12-10	1
2	ZX-SA2E	Coolant Control Switch	LAY12-11X/2	1
3	ZX-SB2E	Emergency Stop	LAY12-01ZS/1	1
4	ZX-HLE	Power Indicator Light	LAY12-AD/110V	1
5	SQ2SQ3E	Stroke Switch (Fw/Rev)	LXW5-11D1	2
6	ZX-QF	Master Switch (40A)	DZ15-40	1
7	ZX-FU1	Fuse (2A)	RT18-32	1
8	ZX-FU2	Fuse (3A)	RT18-32	1
9	ZX-FU3	Fuse (3A)	RT18-32	1
10	ZX-FU5	Fuse (3A)	RT18-32	1
	ZX-FB	Fuse Block		1
11	ZX-QE	Temperature Relay	JW6	1
12	ZX-KM2E	A.C Contactor (Coolant)	3TB41	1
13	ZX-KAE	A.C Contactor (Control Circuit)	3TB80	1
14	ZX-KM3E	A.C Contactor (Forward)	3TB43	1
15	ZX-KM4E	A.C Contactor (Reverse)	3TB43	1
16	ZX-XBE	Copper Plate (for grounding)		1
17	ZX-XT1E	Wiring Board	JTL-25	1
18	ZX-XT2E	Wiring Board	JF25	1
19	ZX-TCE	Control Transformer	JBK5-100TH	1
20	ZX-SQ1E	Stroke Switch (foot break)	LXW5-11N1	1
21	SQ4E	Stroke Switch (chuck guard)	LXW5-11Q1	1



Wiring Diagram

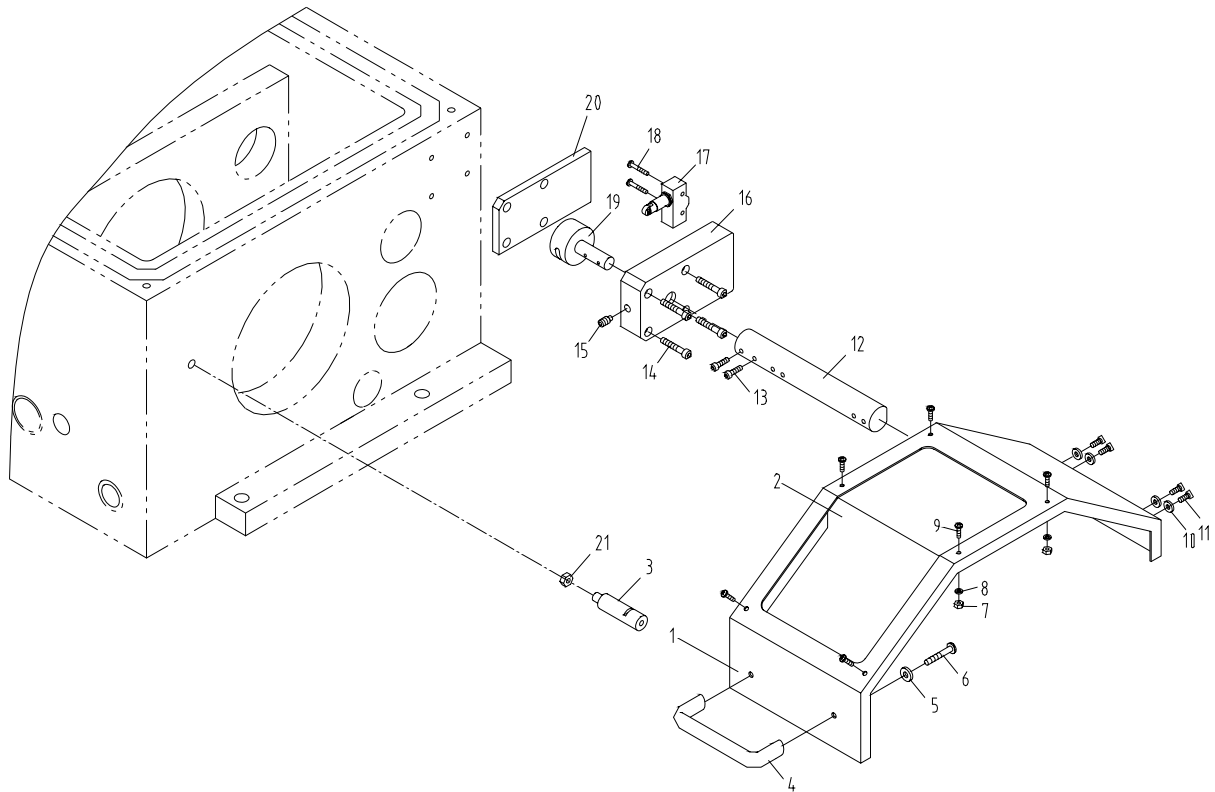


Protecting guards for three rods



Index No.	Part No.	Description	Size	Qty.
1	ZX-20701E	Splash Guard		1
2	ZX-20702E	Splash Guard		1
3	ZX-P03E	Hex Socket Cap Screw	M6x8	4
4	ZX-P04E	Washer	6	4
5	ZX-11304E	Thread Chasing Label		1
6	ZX-P06E	Half Round Head Screw	M3x6	6

Safety guard cover



Index No.	Part No.	Description	Size	Qty.
1	ZX-19701E	Protection guard		1
2	ZX-19501E	Protection guard visual glass		1
3	ZX-19704E	Fixing rod		1
4	ZX-S04E	Handle	Z96-6	1
5	ZX-S05E	Plain washers	6	2
6	ZX-S06E	Cross recessed pan head screws	M6x12	2
7	ZX-S07E	Hexagon thin nuts	M4	6
8	ZX-S08E	Plain washers	4	6
9	ZX-S09E	Cross recessed pan head screws	M4x12	6
10	ZX-S10E	Plain washers	5	4
11	ZX-S11E	Hexagon socket cap head screws	M5x16	4
12	ZX-19703E	Rest bar		1
13	ZX-S13E	Slotted set screws	M8x10	2
14	ZX-S14E	Hexagon socket cap head screws	M6x35	4
15	ZX-S15E	Hexagon socket set screws	M8x16	1
16	GH1440A-19101E	Switch box		1
17	ZX-S17E	Stroke switch (chuck guard)	LXW5-11Q1	1
18	ZX-S18E	Slotted pan head screws	M4x25	2
19	ZX-19702E	Shaft		1
20	ZX-19502E	Washer		1
21		Nut	M8	1