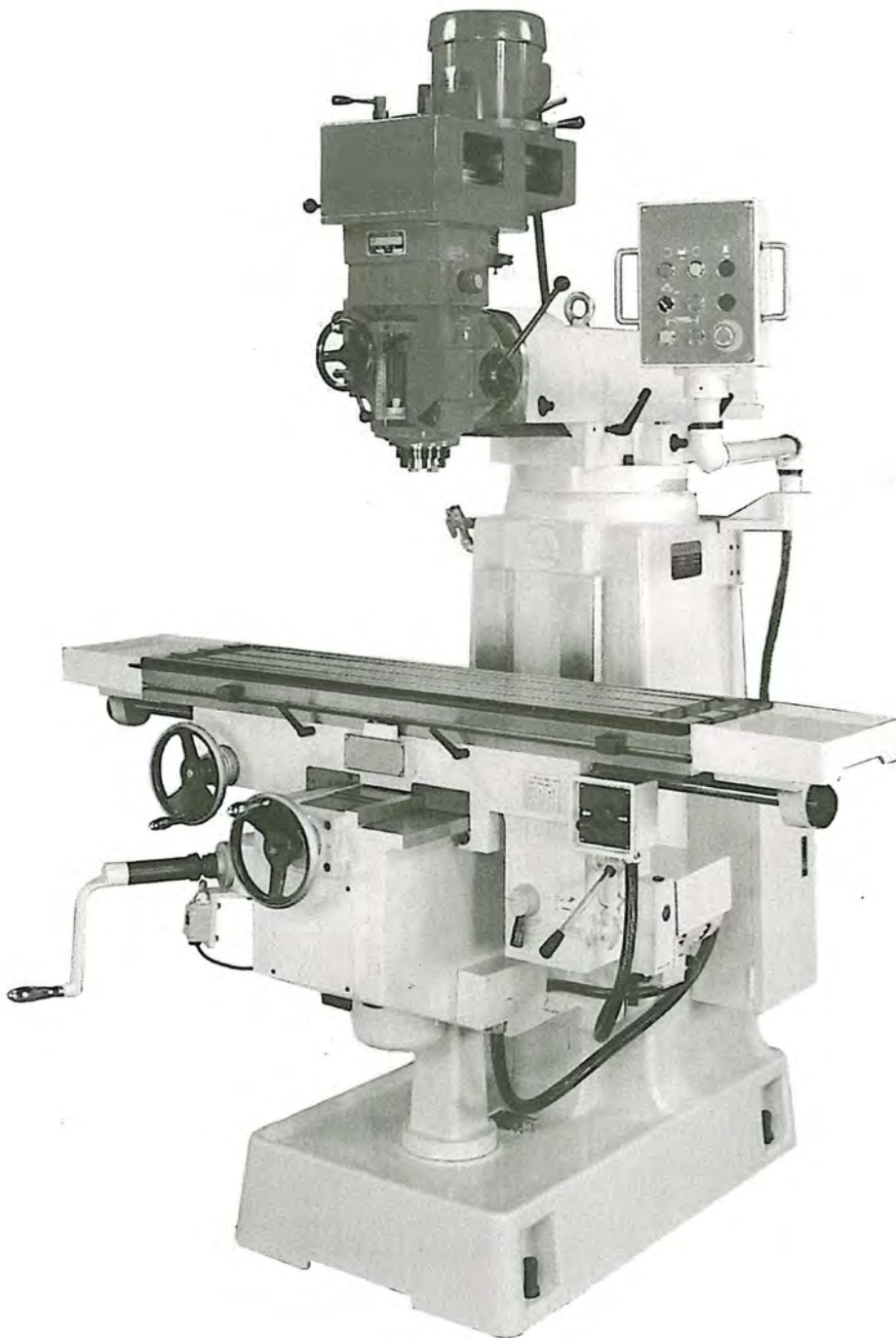


OPERATOR MANUAL VERTICAL MILLING MACHINE

**MODEL: VM-1258-3
(EVS300A)**

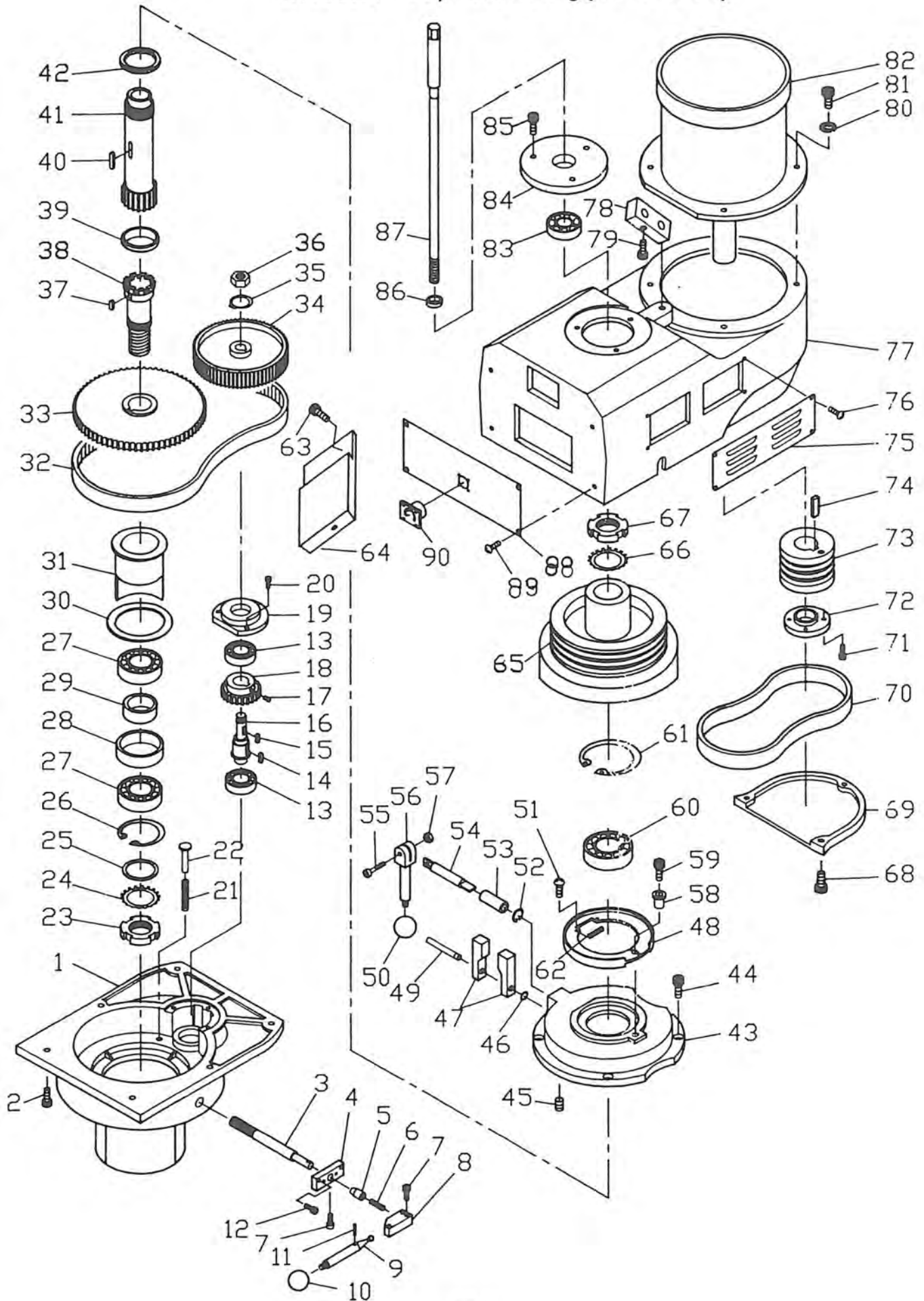


Spare Parts

When ordering replacement parts, please quote:

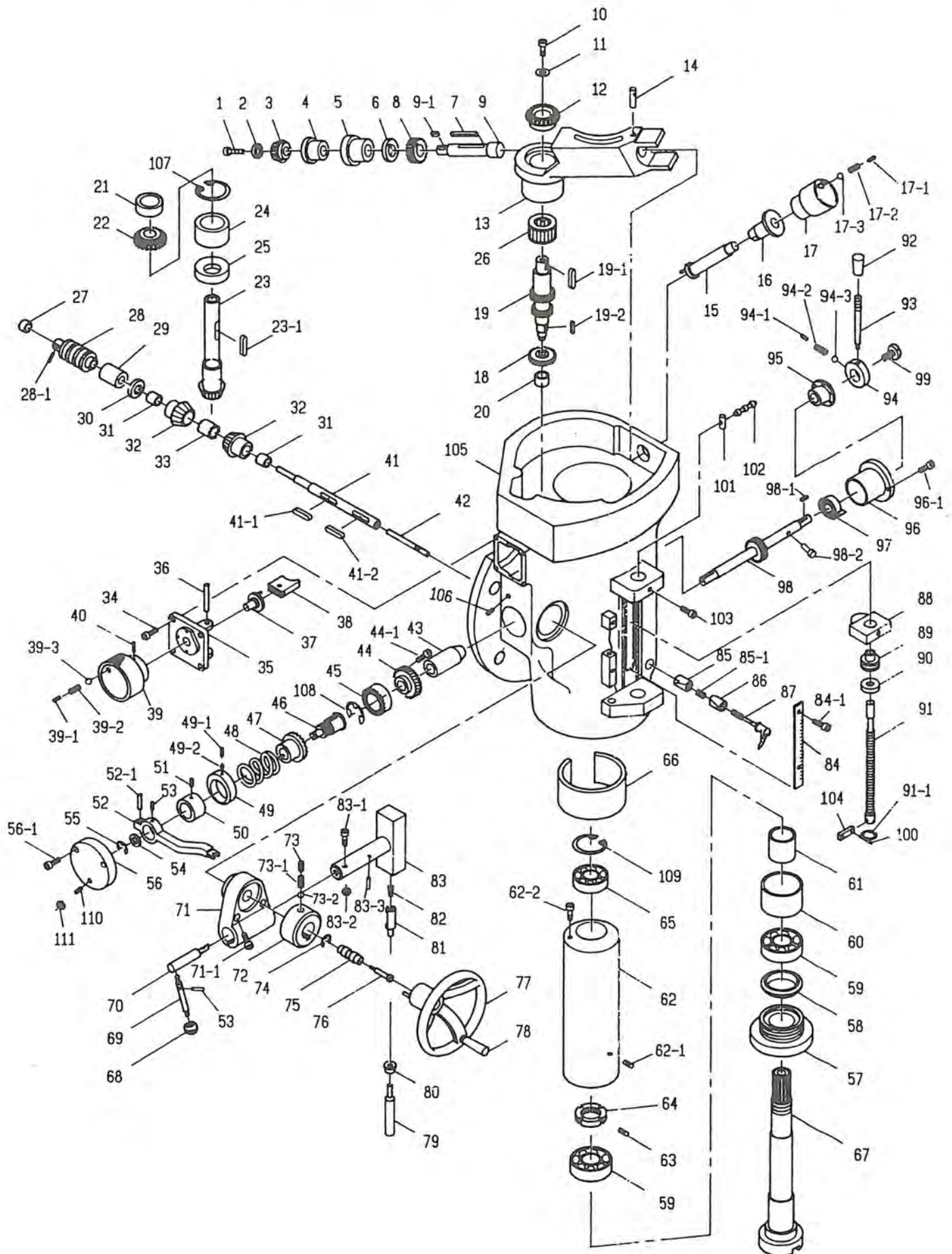
- * THE MACHINE SERIAL NO
Stamped on the model plate
 - * ITEM NUMBER
 - * DESCRIPTION
 - * QUANTITY
-
- * PARTS OBTAINBLE IN INCH(I) OR METRIC(M)

Inverter Top Housing(EVS-300)



NO	NAME	NO	NAME
1	Trans Casting	47	Brake Stud
2	Hex.Socket Head Bolt	48	Brake
3	Trans Shaft	49	Pin
4	Detent Plate	50	Handle Knob
5	Pin	51	Round Head Screw
6	Spring	52	C -Ring
7	Set Screw	53	Bushing
8	Control Block	54	Control Shaft
9	Handle	55	Hex.Socket Head Bolt
10	Handle Ball	56	Handle Broke
11	Pin	57	Nut
12	Hex.Socket Head Bolt	58	Bushing
13	Ball Bearing	59	Hex.Socket Head Bolt
14	Key	60	Ball Bearing
15	Key	61	C -Ring
16	Gear Shaft	62	
17	Set Screw	63	Hex.Socket Head Bolt
18	Gear	64	Brake Covre
19	Ball Bearing	65	Pully
20	Hex.Socket Head Bolt	66	Lock Washer
21	Spring	67	Lock Nut
22	Shaft	68	Hex.Socket Head Bolt
23	Lock Nut	69	Motor Pulley Covre
24	Lock Washer	70	Belt
25	Spacer	71	Hex.Socket Head Bolt
26	C -Ring	72	Lock Ring
27	Ball Bearing	73	Pully
28	Spacer	74	Key
29	Spacer	75	Covre
30	Washer	76	Round Head Screw
31	Flange Ring	77	Head Body
32	Time Balt	78	Block
33	Gear	79	Hex.Socket Head Bolt
34	Time Pully	80	Spring Washer
35	Spring Washer	81	Hex.Socket Head Bolt
36	Nut	82	Motor
37	Key	83	Ball Bearing
38	Clutch Shaft	84	Bearing Supporter
39	Washer	85	Hex.Socket Head Bolt
40	Key	86	Draw Bar Washer
41	Time Pully Shaft	87	Draw Bar
42	Washer	88	R.P.M Fixed Plate
43	Brake Casting	89	Round Head Screw
44	Hex.Socket Head Bolt	90	R.P.M Indicator
45	Set Screw	91	
46	C -Ring	92	

HEAD ASSEMBLY (S-300 & VS-300, EVS-300)

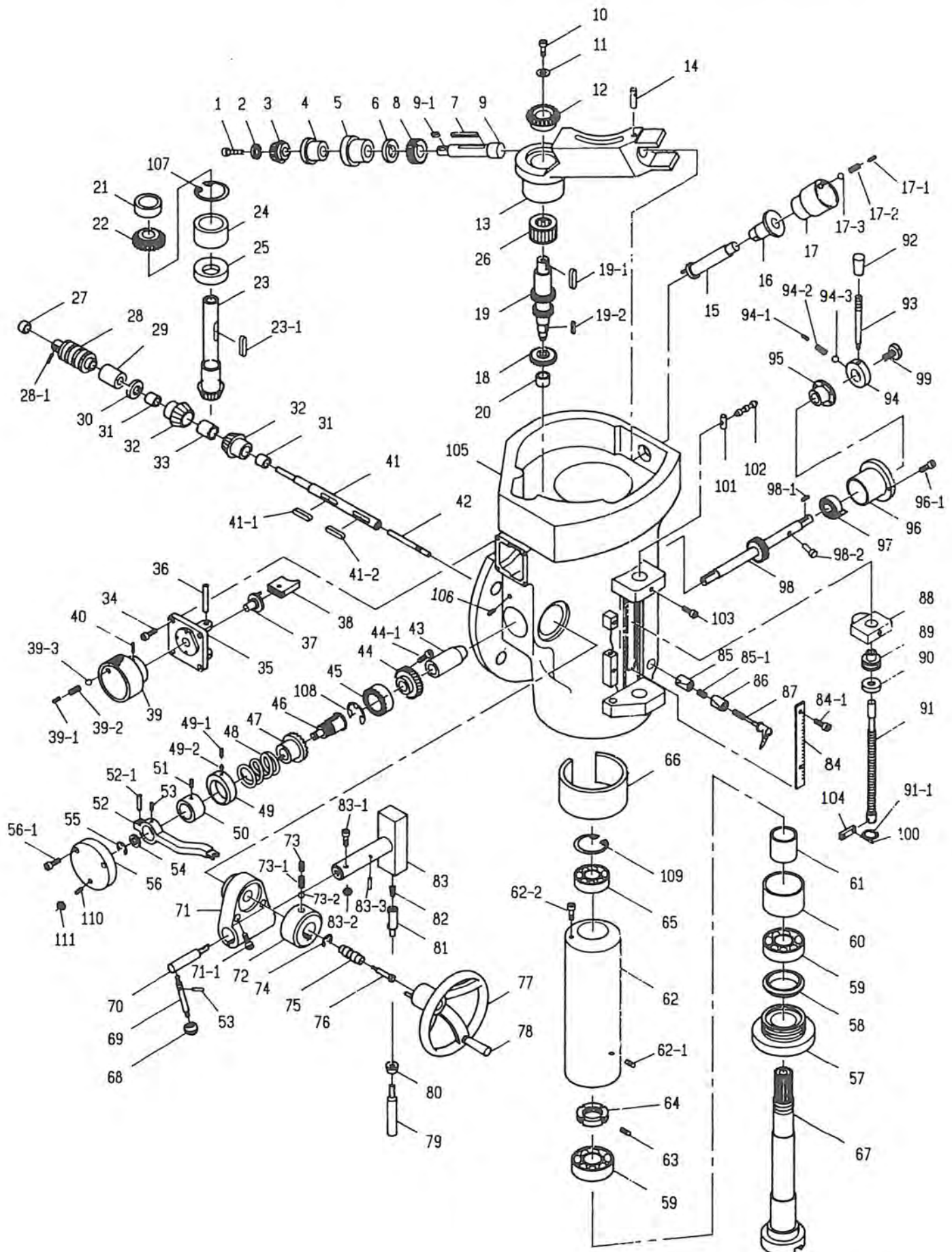


HEAD ASSEMBLY (S-300,VS-300,EVS-300)

NO	NAME	NO	NAME
1	Hex.Socket Head Bolt	34	Hex.Socket Head Bolt
2	Washer	35	Gear Cover
3	Bevel Gear	36	Shaft
4	Shaft Sleeve	37	Crank
5	Bushing	38	Feed Gear Shift Fork
6	Spacer	39	Knob
7	Key	39-1	Set Screw
8	Worm Gear	39-2	Spring
9	Shaft	39-3	Steel Ball
9-1	Key	40	Set Screw
10	Hex.Socket Head Bolt	41	Worm Shaft
11	Washer	41-1	Key
12	Bevel Gear	41-2	Key
13	Worm Gear Cradle	42	Reverse Clutch Rod
14	Feed Engage Pin	43	Shaft Bushing
15	Worm Gear Cradle Shaft	44	Worm Gear
16	Shaft Sleeve	44-1	Round Head Screw
17	Knob	45	Clutch Ring
17-1	Set Screw	46	Overload Clutch Sleeve
17-2	Spring	47	Overload Clutch
17-3	Steel Ball	48	Spring
18	Gear	49	Clutch Locknut
19	Gear Shaft	49-1	Set Screw
19-1	Key	49-2	Brass Piece
19-2	Key	50	Clutch Ring
20	Needle Bearing	51	Set Screw
21	Bushing	52	Trip Lever
22	Gear	52-1	Spring Pin
23	Gear Saft	53	Clutch Ring Pin
23-1	Key	54	Clutch Washer
24	Bushing	55	E-Ring
25	Spacer	56	Arm Cover
26	Needle Bearing	56-1	Hex.Socket Head Bolt
27	Bushing	57	Nose Piece
28	Worm Gear	58	Dirt Shield
28-1	Spring Pin	59	Angular Bearing
29	Bushing	60	Spacer
30	Washer	61	Spacer
31	Bushing	62	Quill
32	Bevel Gear	62-1	Set Screw
33	Feed Reverse Clutch	62-2	Hex.Socket Head Bolt

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HEAD ASSEMBLY (S-300 & VS-300, EVS-300)

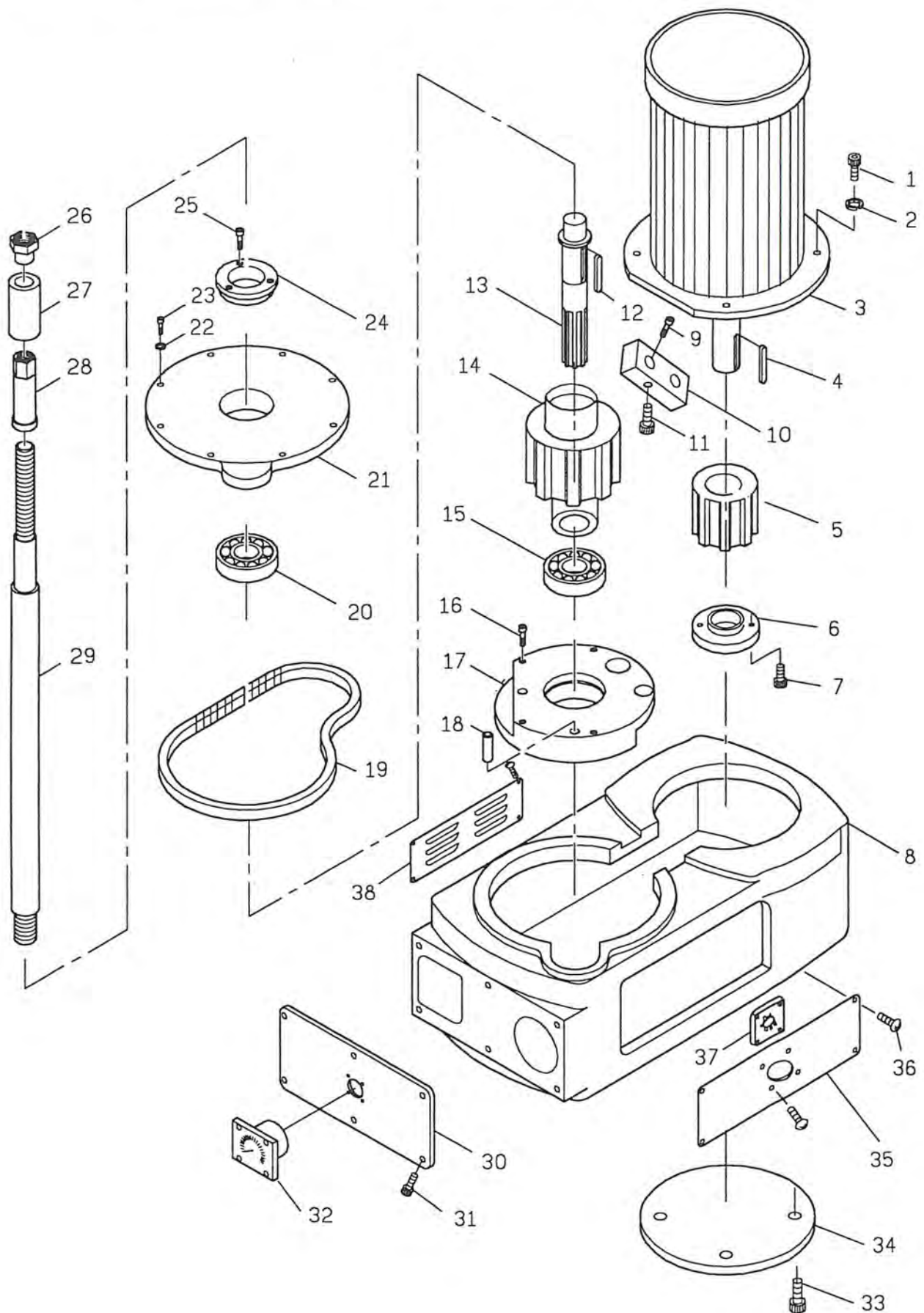


HEAD ASSEMBLY (S-300,VS-300,EVS-300)

NO	NAME	NO	NAME
63	Set Screw	94-1	Set Screw
64	Lock Nut	94-2	Spring
65	Angular Bearing	94-3	Ball Steel
66	Quill Skirt	95	Hub Sleeve
67	Spindle	96	Spring Cover
68	Plastic Ball	96-1	Hex. Socket Head Bolt
69	Trip Handle	97	Clock Spring
70	Cam Rod	98	Pinion Shaft
71	Feed Trip Bracket	98-1	Key
71-1	Hex. Socket Head Bolt	98-2	T-Pin
72	Hand Wheel Clutch	99	Shaft Hub Screw
73	Set Screw	100	Set Screw
73-1	Spring	101	Plunger
73-2	Ball Steel	102	Lever
74	C-Ring	103	Set Screw
75	Reverse Knob	104	Feed Trip Lever
76	Knob Stud	105	Quill Housing
77	Hand Wheel	106	Set Screw
78	Hand	107	C-Ring
79	Plunger	108	C-Ring
80	Bushing	109	C-Ring
81	Trip Plunger	110	Set Screw
82	Spring	111	Nut
83	Cam Rod Sleeve		
83-1	Hex. Socket Head Bolt		
83-2	Nut		
83-3	Spring Pin		
84	Micrometer Scale		
84-1	Round Head Screw		
85	Quill Lock Sleeve		
85-1	Spring		
86	Quill Lock Sleeve		
87	Lock Handle		
88	Stop Knob		
89	Micro Stop Nut		
90	Micro Stop Nut		
91	Micro Screw		
91-1	C-Ring		
92	Plastic Ball		
93	Handle		
94	Handle Hub		

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INVERTER TOP HOUSING (EVS-300A)



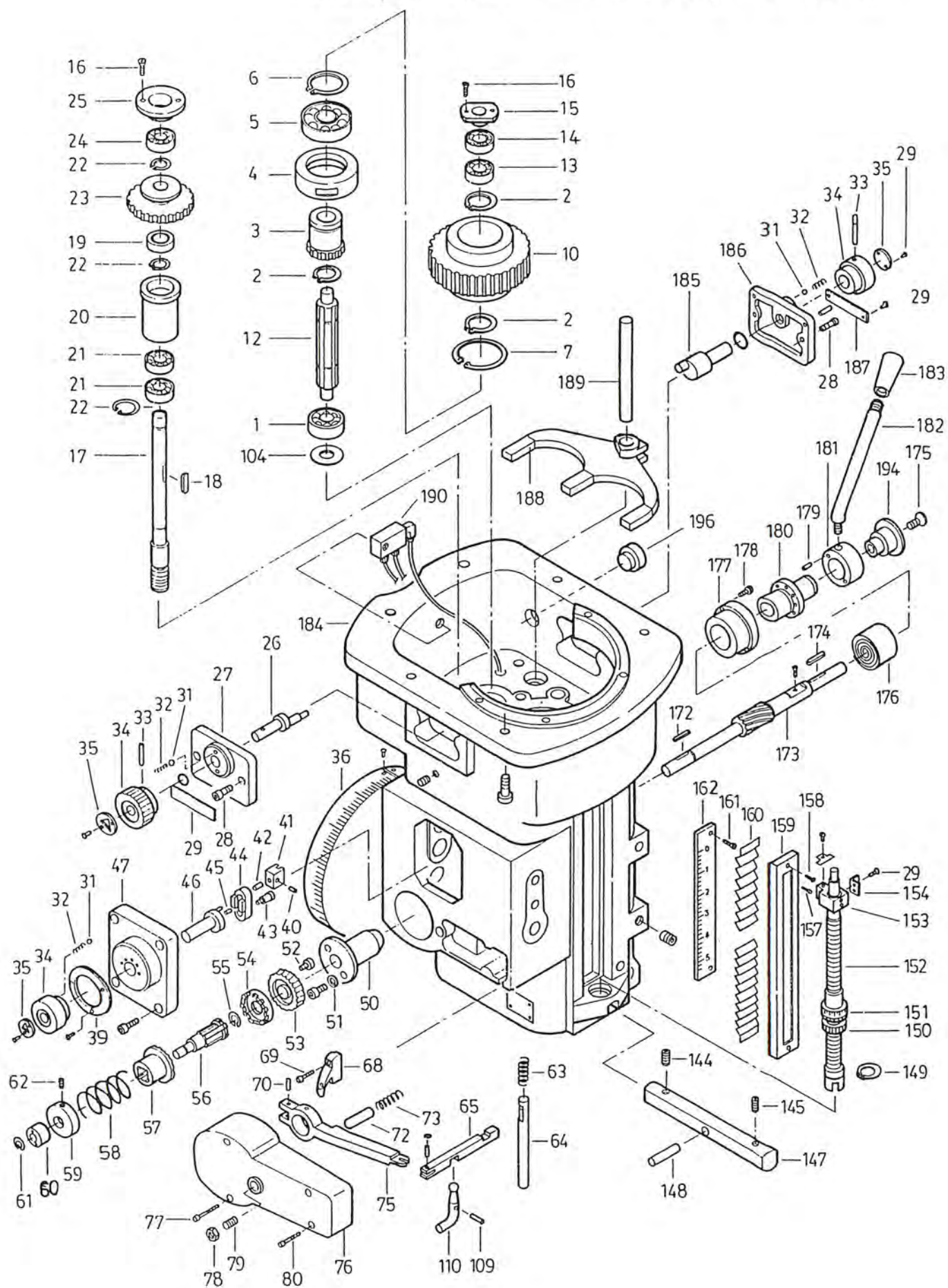
3000P369

INVERTER TOP HOUSING (EVS-300A)

NO	NAME	NO	NAME
1	Hex.Socket Head Bolt		
2	Washer		
3	Inverter Motor		
4	Key		
5	Motor Timing Belt Pulley		
6	Pulley Stop Ring		
7	Hex.Socket Head Bolt		
8	Head Body		
9	Hex.Socket Head Bolt		
10	Bracket		
11	Hex.Socket Head Bolt		
12	Key		
13	Gear Shaft		
14	Spindle Timing Belt Pulley		
15	Ball Bearing		
16	Hex.Socket Head Bolt		
17	Bearing Supporter		
18	Pin		
19	Timing Belt		
20	Ball Bearing		
21	Bearing Supporter		
22	Washer		
23	Hex.Socket Head Bolt		
24	Bearing Stop Ring		
25	Hex.Socket Head Bolt		
26	Nut		
27	Outer Sleeve		
28	Inner Sleeve		
29	Draw Bar		
30	Brake Seat		
31	Hex.Socket Head Bolt		
32	Rpm Indicator		
33	Hex.Socket Head Bolt		
34	Cover		
35	Cover		
36	Pan Head Screw		
37	Fan		
38	Cover		
39			
40			
41			

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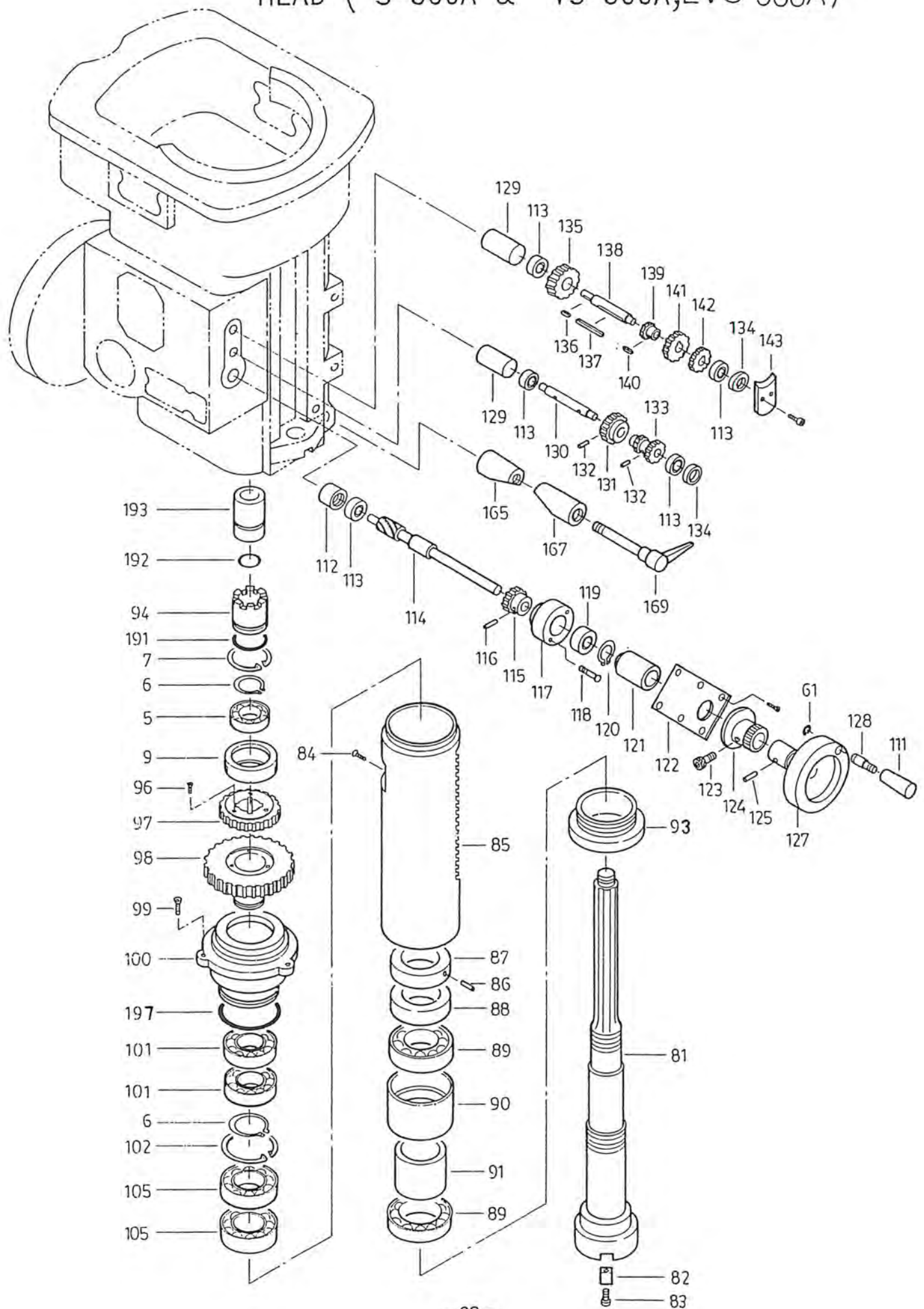
HEAD (S-300A & VS-300A,EVS-300A)



HEAD (S-300A & VS-300A,EVS-300A)

NO	MANE	NO	MANE
1	Taper Roller Bearing	36	Head Swivelling Scale Ring
2	Snap Ring	37	Set Screw
3	Backgear	38	Socket Screw
4	Bearing Support Ring	39	Trade Mark
5	Ball Bearing	40	Pin
6	Snap Ring	41	Feed Gear Shift Fork
7	Snap Ring	42	Pin
8	Flat Hd Set Screw	43	Pin
9	Bearing Cover	44	Shift Crank
10	MC-Nylon Gear	45	Taper Pin
11	Gear Sleeve	46	Eccentric Shaft
12	Backgear Spline Shaft	47	Cluster Gear Cover
13	Ball Bearing	48	Socket Screw
14	Ball Bearing	49	Feedrate Plate
15	Bearing Cover (A)	50	Quill Pinion Shaft Bushing
16	Flat Hd Set Screw	51	Spring Washer
17	Worm Shaft	52	Socket Screw
18	Sliding Key	53	Worm whed
19	Oil Seal	54	Overload Clutch Ring
20	Bearing Sleeve	55	Snap Ring
21	Ball Bearing	56	Overload Clutch Sleeve
22	Snap Ring	57	Overload Clutch
23	Feed Clutch Gear	58	Safety Clutch Spring
24	Taper Roller Bearing	59	Locknut
25	Bearing Cover	60	Clutch Ring
26	Eccentric Shaft	61	Snap Ring
27	Power Feed Cover	62	Set Screw
28	Socket Screw	63	Spring
29	Rivet	64	Trip Plugger
30	Feed Clutch Indicating Plate	65	Cam Rod
31	Steel Ball	66	Snap Ring
32	Spring	67	Pin
33	Knock Pin	68	Bracket
34	Dial	69	Socket Screw
35	Dial Indicating Plate	70	Pin

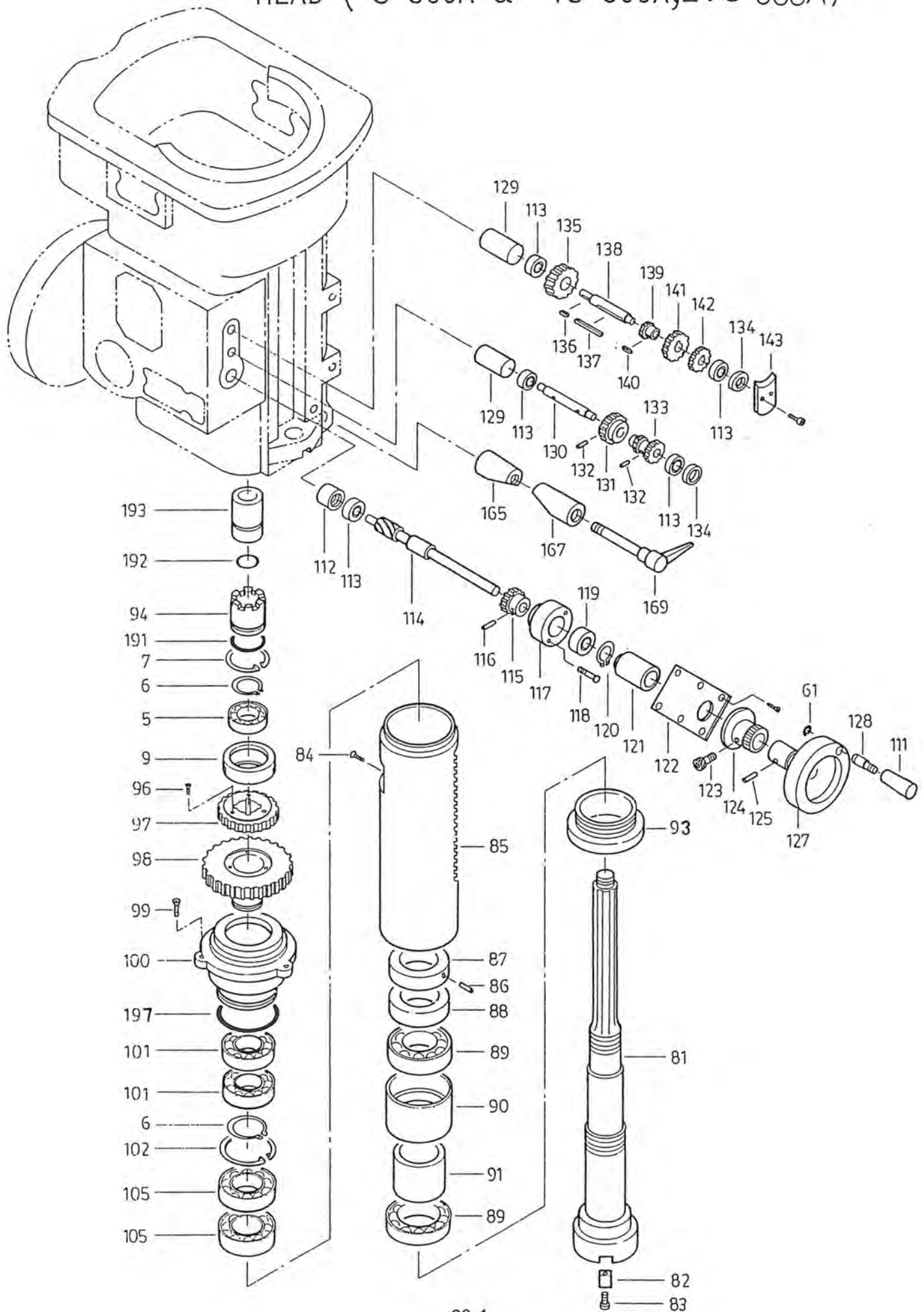
HEAD (S-300A & VS-300A,EVS-300A)



HEAD (S-300A& VS-300A,EVS-300A)

NO	MANE	NO	MANE
71	Set Screw	106	Spring Housing
72	Ball Head Pin	107	Spring
73	Spring	108	Washer
74	"CAUTION" Plate	109	Pin
75	Overload Clutch Trip Lever	110	Feed Engage Lever
76	Trip Lever Cover	111	Plastic Handle
77	Socket Bolt	112	Cylindrical Block
78	Hex Nut	113	Ball Bearing
79	Set Screw	114	Wormshaft
80	Socket Bolt	115	Gear
81	Vertical Spindle	116	Knock Pin
82	Key	117	Worm Shaft Bearing Housing
83	Socket Screw	118	Socket Bolt
84	Socket Screw	119	Ball Bearing
85	Quill	120	Snap Ring
86	Set Screw	121	Spacer
87	Locknut	122	Microfeed Plate
88	Collar		Microfeed Plate
89	Ball Bearing	123	Rd Hd Screw
90	Outer Collar	124	Microdial
91	Inner Coller		Microdial
92	Oil Seal	125	Microdial Screw
93	Nose-Piece	126	Knock Pin
94	Clutch Sleeve	127	Microfeed Handwheel
95	Bearing Support Ring	128	Handle Screw
96	Socket Screw	129	Cylindrical Block
97	Spindle Gear Cluster	130	Gear Shaft
98	Spindle Gear Cluster	131	Gear
99	Socket Screw	132	Knock Pin
100	Bearing Housing	133	Gear Cluster
101	Ball Bearing	134	Spacer
102	Snap Ring	135	Wormwheel
103	Locknut	136	Key
104	Washer	137	Sliding Key
105	Ball Bearing	138	Sliding Gear Shaft

HEAD (S-300A & VS-300A,EVS-300A)

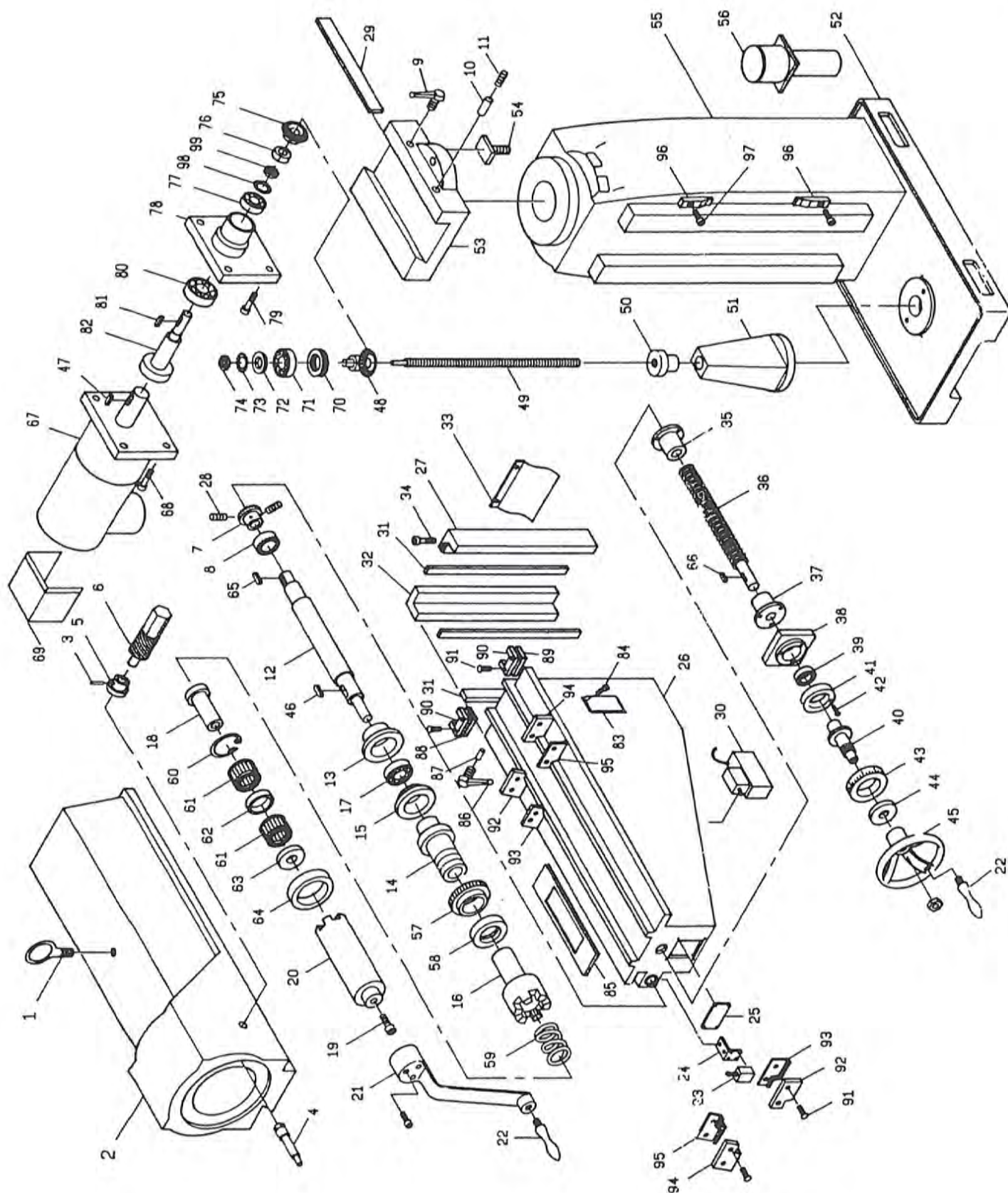


HEAD (S-300A & VS-300A ,EVS-300A)

NO	MANE	NO	MANE
139	Gear	171	Lever
140	Key	172	Sliding Key
141	Gear	173	Pinion Shaft
142	Gear	174	Key
143	Enclose Plate	175	Set Screw
144	Set Screw	176	Balance Spring
145	Set Screw	177	Spring Housing
146	Hex Nut	178	Socket Screw
147	Feed Disengage Lever	179	Pin
148	Pin	180	Pinion Shaft Hub Sleeve
149	Snap Ring	181	Lever Collar
150	Quill Micro-Stop Nut	182	Lever
151	Micrometer Nut	183	Plastic Handle
	Micrometer Nut	184	Head Housing
152	Quill Stop Micro-Screw	185	Eccentric Shaft
153	Quill Stop Knob	186	"H-L" Cover
154	Scale Indicator	187	"H-L" Indicating Plate
155	"T" Piece	188	Backgear Fork
156	Rd Hd Screw	189	Fork Post
157	Socket Screw	190	Oil Nipple
158	Rd Hd Screw	191	O- Ring
159	Quill Cover	192	O- Ring
160	Dust Guard	193	Bushing
161	Rd Hd Screw	194	Handle Hub
162	Quill Travel Scale	195	Oil Seal
	Quill Travel Scale	196	Oil Lever Gage
163	Set Screw	197	O- Ring
164	Pad		
165	Quill Lock Sleeve Tapped		
166	Spring		
167	Drilled Lock Sleeve		
168	Washer		
169	Bolt		
170	Lock Postition Indicating Plate		

COLUMN KNEE(S-300,300A VS-300,300A)

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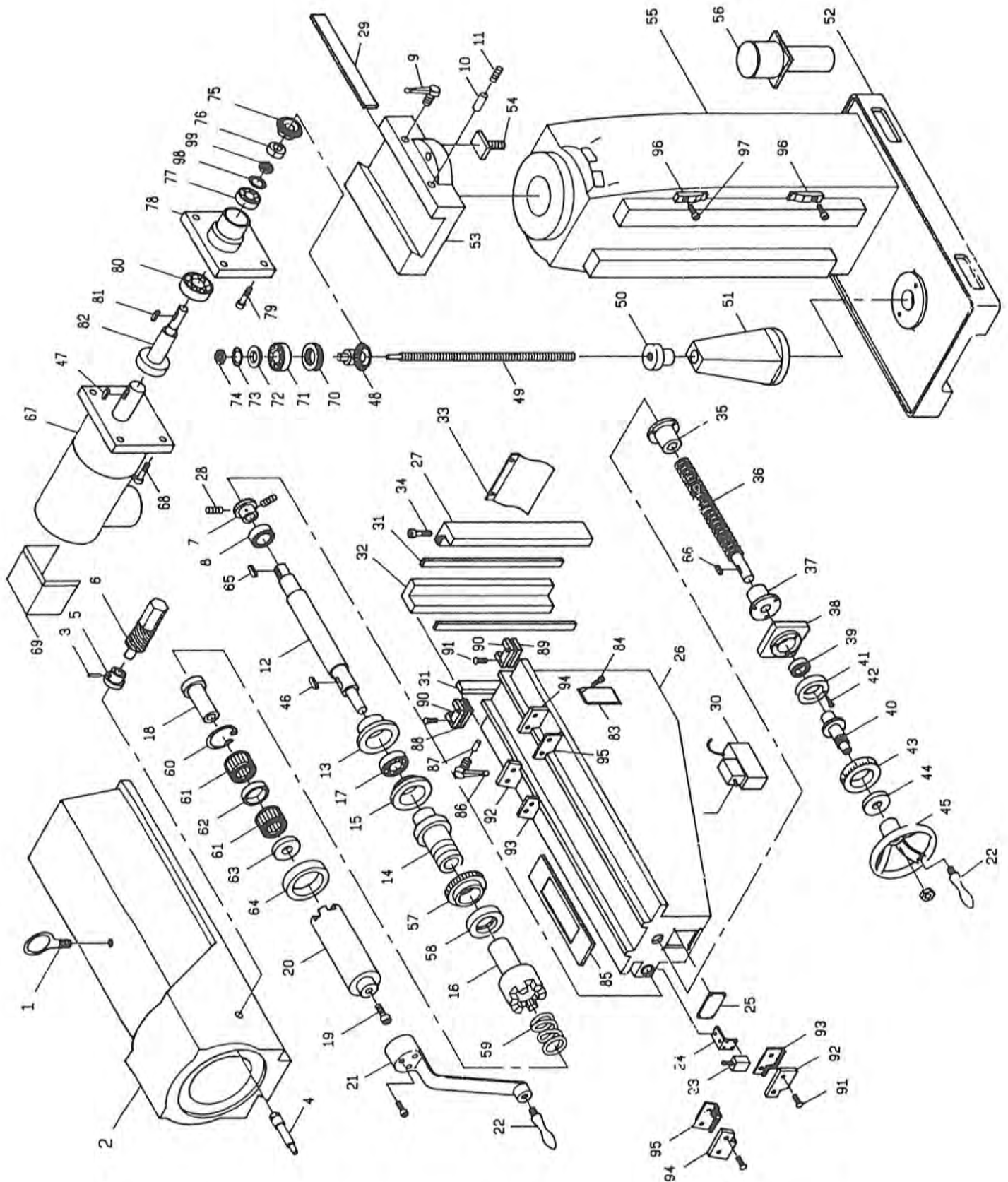
COLUMN KNEE (S-300,300A VS-300,300A)

NO	NAME	NO	NAME
1	Hook	42	Hex.Socket Head Bolt
2	Arm	43	Dial Ring
3	Spring Pin	44	Dial Lock Nut
4	Bolt	45	Handle Wheel
5	Flange	46	Key
6	Worm	47	Key
7	Bevel Gear	48	Bevel Gear
8	Ball Bearing	49	Lead Screw
9	Lock Handle	50	Nut
10	Block	51	Lead Screw Housing
11	Set Screw	52	Base
12	Shaft	53	Swivel Base
13	Baring Support	54	Bolt
14	Shaft	55	Column
15	Baring Stop	56	Coolant Pump
16	Clutch Shaft	57	Dial Ring
17	Ball Bearing	58	Dial Lock Nut
18	Needle Shaft	59	Spring
19	Hex.Socket Head Bolt	60	C-Ring
20	Clutch Sleeve	61	Needle Bearing
21	Elevating Crank	62	Spacer
22	Handle	63	Spacer
23	Limiter	64	Collar
24	Limiter Set	65	Key
25	Cover	66	Key
26	Knee	67	Gear Reducer
27	Gib Holder-R	68	Hex.Socket Head Bolt
28	Set Screw	69	Cover
29	Gib	70	Thrust Bearing
30	Lubrication Pump	71	Ball Bearing
31	Gib	72	Spacer
32	Gib Holder-L	73	Washer
33	Chip Guard	74	Nut
34	Adjusting Screw	75	Bevel Gear
35	Nut	76	Spacer
36	Lead Screw	77	Ball Bearing
37	Nut	78	Bearing Bracket
38	Baring Support	79	Hex.Socket Head Bolt
39	Spacer	80	Ball Bearing
40	Dial Holder	81	Key
41	Baring Stop	82	Shaft

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COLUMN KNEE(S-300,300A VS-300,300A)

3000P239

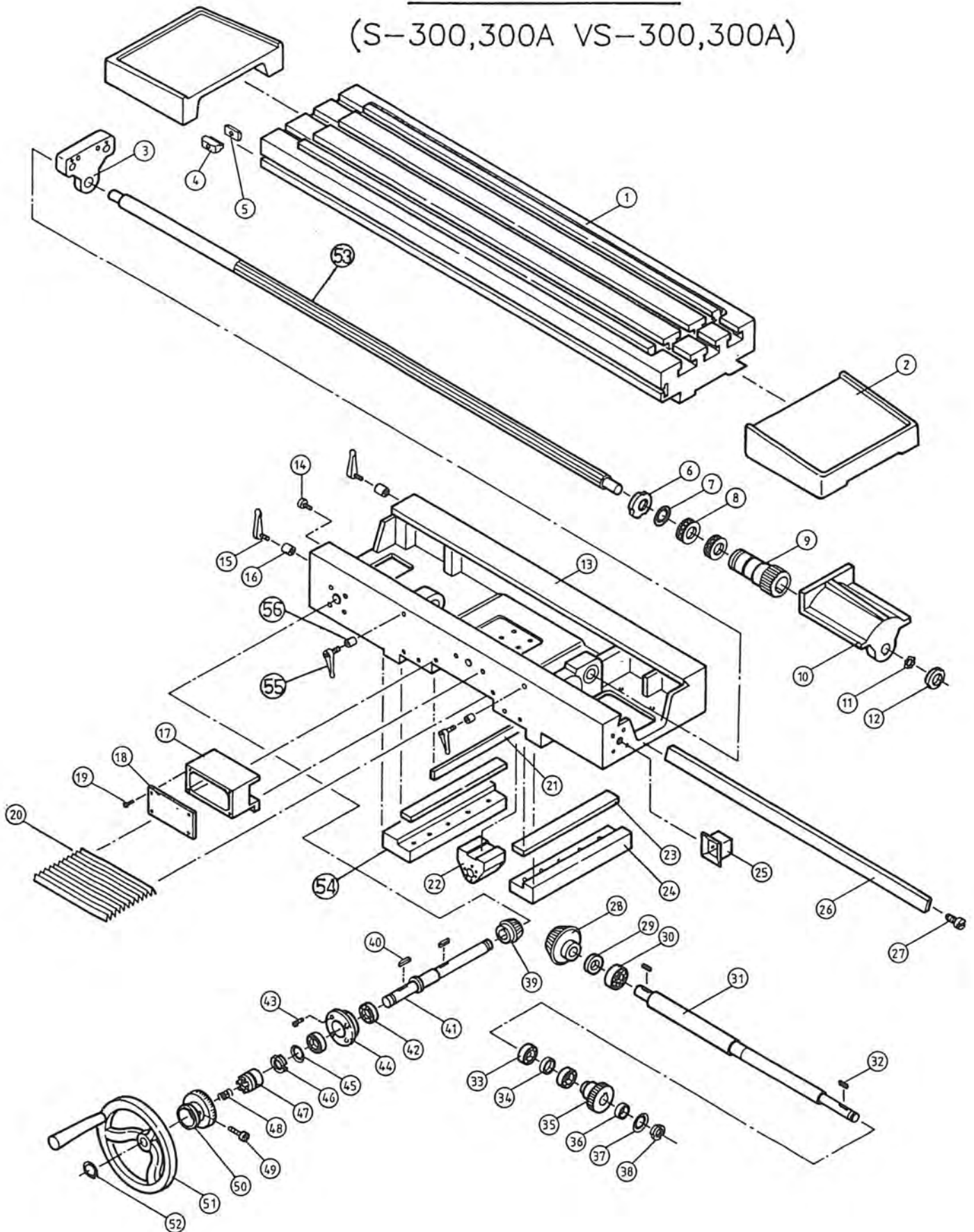


COLUMN KNEE(S-300,300A VS-300,300A)

NO	NAME	NO	NAME
83	Limit Switch Bracket		
84	Hex.Socket Head Bolt		
85	Chip Guard		
86	Lock Handle		
87	Brass Block		
88	Wiper		
89	Wiper		
90	Wiper Fix Plate		
91	Round Head Screw		
92	Wiper Fix Plate		
93	Wiper		
94	Wiper Fix Plate		
95	Wiper		
96	Dog		
97	Hex.Socket Head Bolt		
98	Washer		
99	Nut		

3000P322

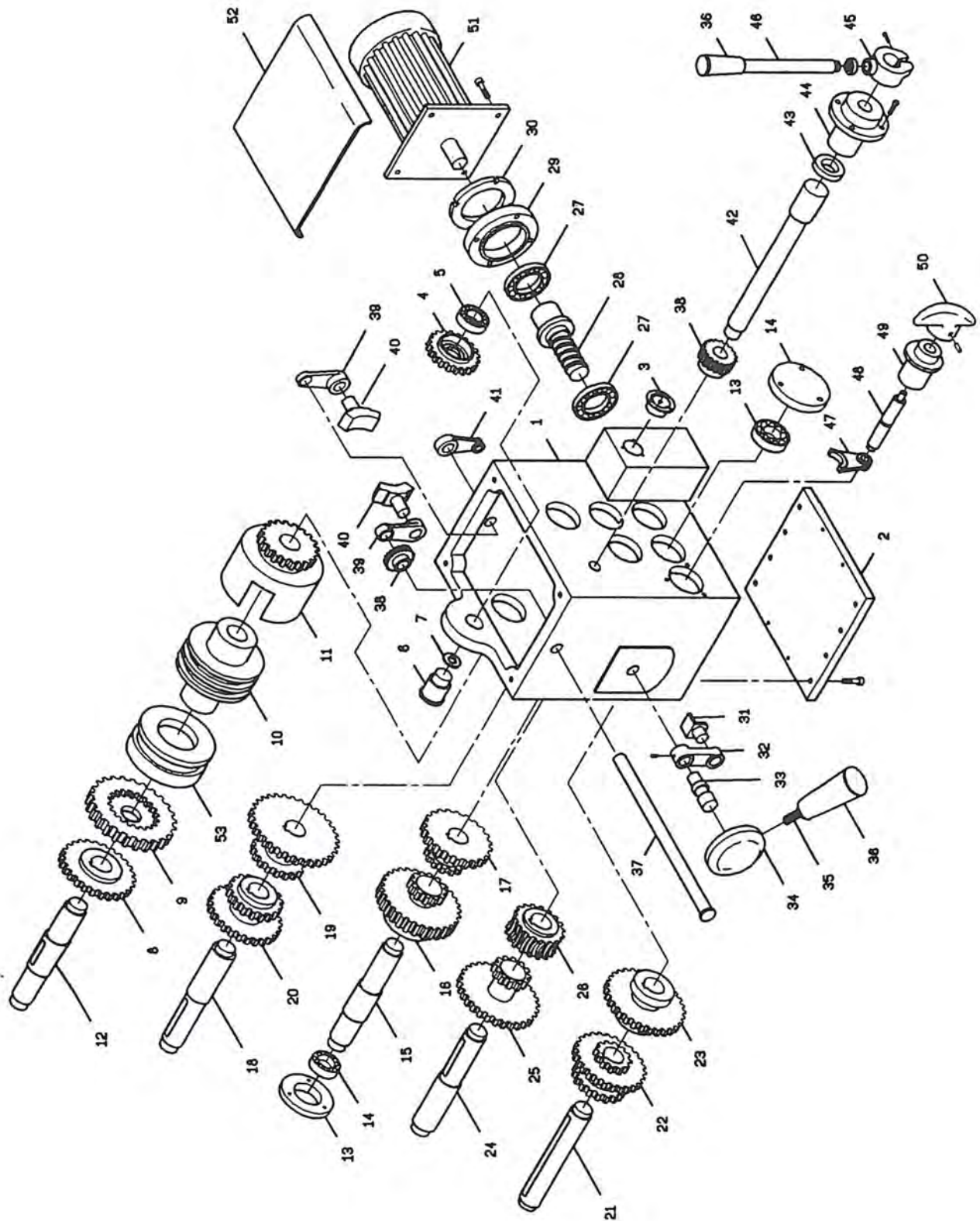
TABLE SADDLE (S-300,300A VS-300,300A)



TABBLE SADDLE (S-300,300A VS-300,300A)

NO	NAME	NO	NAME
1	Table	36	Collar
2	Side Cap	37	Lock Washer
3	Bearing Sets	38	Lock Unt
4	Dog	39	Gear
5	Set Nut	40	Key
6	Lock Nut	41	Shaft
7	Lock Washer	42	Bearing
8	Thrust Bearing	43	Hex. Socket Heed Screw
9	Lead Nut	44	Bearing Sets
10	Bearing Sets	45	Lock Washer
11	Lock washer	46	Lock Nute
12	Lock Nut	47	Handle Wheel Clutch
13	Saddle	48	Spring
14	Fitting Screw	49	Hex. Socket Head Screw
15	Fixed Handle	50	Graduated Dial
16	Bushing	51	Handle Wheel
17	Switch Case	52	Ring
18	Cover	53	Lead Screw
19	Hex. Socket Head Screw	54	Fitting
20	Chip Guard	55	Fixed Handle
21	Gib	56	Bushing
22	Lead Screw Sets		
23	Gib		
24	Fitting		
25	Switch Case		
26	Gib		
27	Fitting Screw		
28	Gear		
29	Collar		
30	Bearing		
31	Shaft		
32	Key		
33	Bearing		
34	Collar		
35	Gear		

LONGITUDINAL GEAR BOX (S-300,300A VS-300,300A)



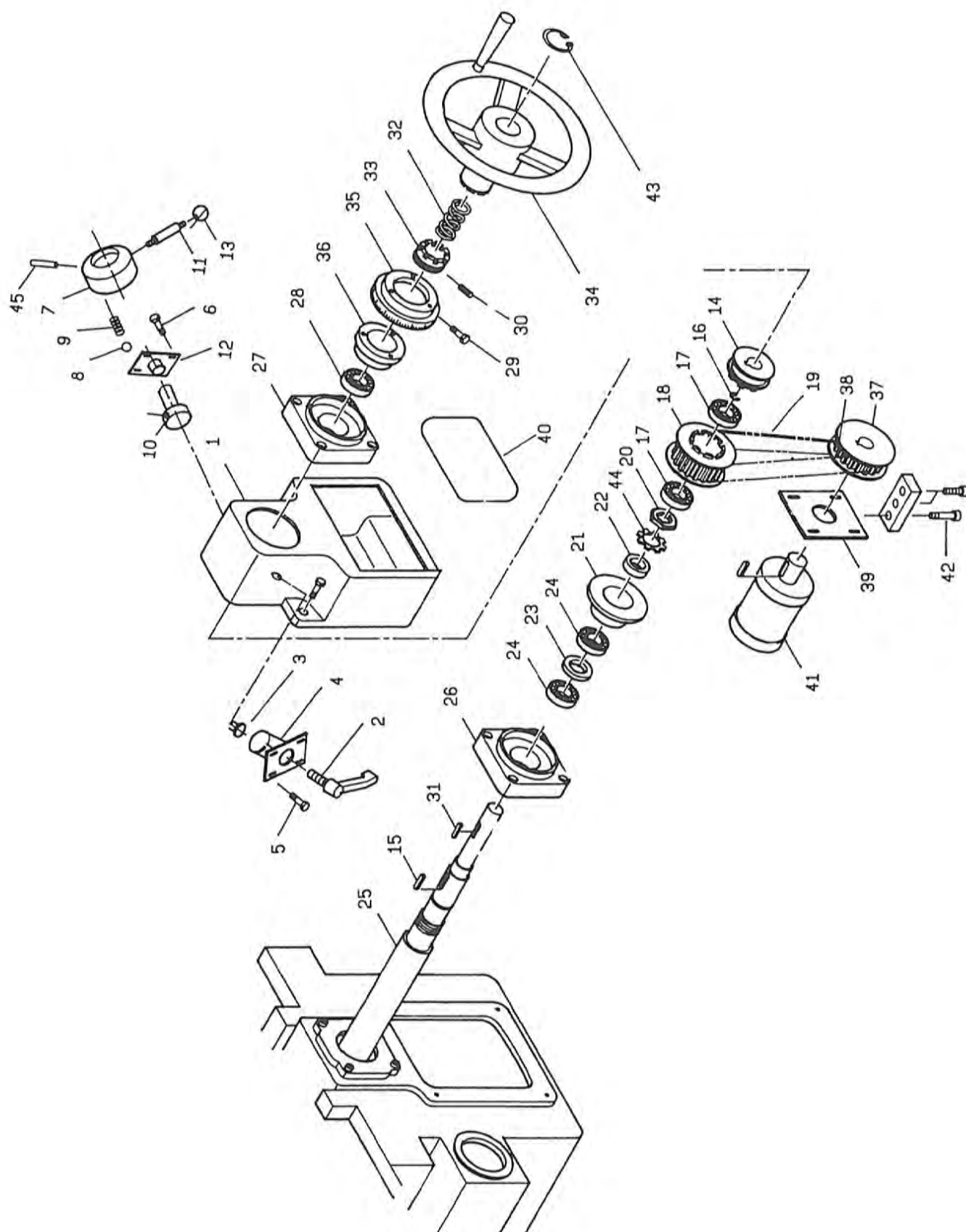
(S-300,300A VS-300,300A)

LONGITUDINAL GEAR BOX

NO	NEME	NO	NEME
1	Body for Gears	36	Hamdle
2	Cap Plate	37	Axle Lever
3	Cap for Electric	38	Spur Gear
4	Spur Gear	39	Lever Block
5	Bearing	40	Clutch Block
6	Link for Gear	41	Lever Block
7	Washer	42	Nlain Shaft
8	Spur Gear	43	Bushing
9	Gear with Clutch	44	Flange
10	Clutch	45	Hamdle Block
11	Cone with Gear	46	Handle
12	Main Shaft	47	Gears Block
13	Cover Bearing	48	Shaft for Block
14	Bearing	49	Flange
15	Main Shaft	50	Hamdle for Gears
16	Spur Gears	51	Motor
17	Spur Gears	52	Motor Cover
18	Main Shaft	53	Clutch
19	Spur Gears		
20	Spur Gears		
21	Main Shaft		
22	Spur Gears		
23	Spur Gears		
24	Main Shaft		
25	Spur Gears		
26	Worm Gear		
27	Bearing		
28	Motor Axle		
29	Motor Flange		
30	Lock Nut		
31	Black for Gears		
32	Lever Black		
33	Gears Axle		
34	Handle Cover		
35	Hamdle Screw		

NEW CROSS FEED (INVERTER MOTOR) (S-300,300A VS-300,300A)

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NEW CROSS FEED (S-300,300A VS-300,300A)

NO	NAME	NO	NAME
1	Feed Box	42	Hex.Socket Head Bolt
2	Handle Screw	43	C-Ring
3	Fixed Shaft	44	Lock Washer
4	Fixed Seat	45	Spring Pin
5	Hex.Socket Head Bolt		
6	Hex.Socket Head Bolt		
7	Handle Seat		
8	Stell Ball		
9	Spring		
10	Clutch Shaft		
11	Handle		
12	Fixed Seat		
13	Plastic Ball		
14	Clutch Sleeve		
15	Key		
16	C-Ring		
17	Ball Bearing		
18	Belt Wheel		
19	Belt		
20	Lock Nut		
21	Baring Stop		
22	Spacer		
23	Spacer		
24	Ball Bearing		
25	Ball Screw		
26	Baring Bracket		
27	Baring Bracket		
28	Ball Bearing		
29	Set Screw		
30	Set Screw		
31	Key		
32	Spring		
33	Clutch Sleeve		
34	Handlet Wheel		
35	Dial		
36	Baring Stop		
37	Flange		
38	Belt Wheel		
39	Motor Bracket		
40	Cover		
41	Motor		

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