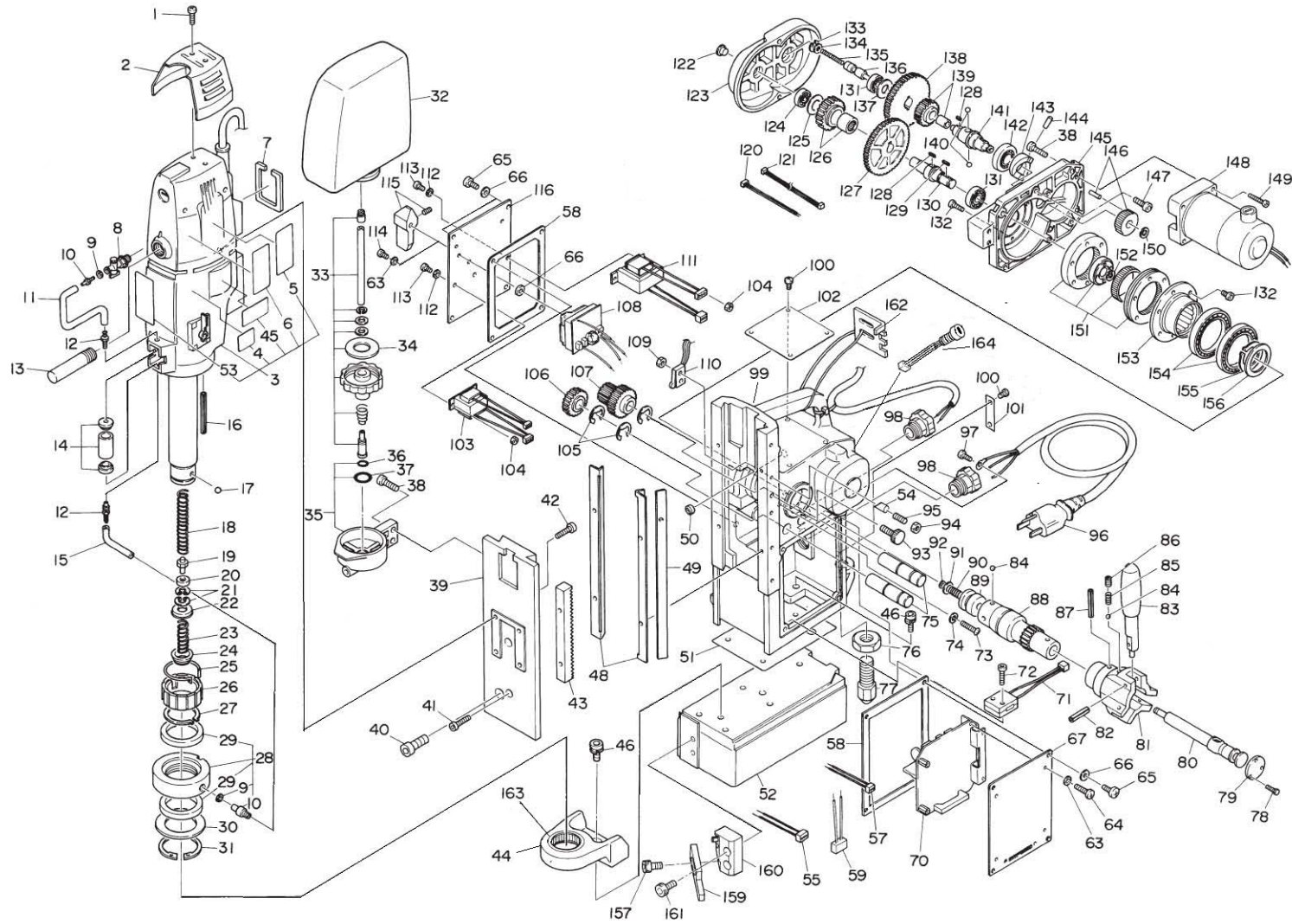


ATRA ACE QA-5000 (110-120V) ASSEMBLY AND PARTS LIST



The parts numbers with () are included in the Ass'y parts written above them.

No.	Part No.	Part Name	Q'ty	Price	No.	Part No.	Part Name	Q'ty	Price	No.	Part No.	Part Name	Q'ty	Price
1	LP30156	Pan Head Screw 4 X 6	2		58	TQ00932	Packing Body	2		123	TQ04982	Gear Box Cover	1	
2	TQ00926	Protection Cover	1		63	TQ00258	Seal Washer M4	6		124	TQ01924	Ball Bearing 688ZZ	1	
3	TB04020	Drill Motor Ass'y for QA-5000 115V	1 set		64	TQ01526	Pan Head Screw 4 X 10	4		125	TQ01926	Washer 10.2 X 20 X 0.6	1	
	(TA9A028)	Brush Ass'y (2 pcs/set)	1 set		65	TP02419	+ Screw 6 X 10	8		126	TB01360	Spur Gear 30 M1 Ass'y	1 set	
4	(TQ05077)	Label - Drill rpm	1		66	TQ01331	Seal Washer M6	9		127	TQ02435	Spur Gear 70 M1B	1	
4.5	(TQ05063)	Caution Label	1		67	TQ06041	Mounting Plate	1		128	TQ01913	Sunk Key 4 X 4 X 7 Round-end	2	
5	(TQ05065)	Label - Cutter Insertion	1		70	TB08848	Control Board Ass'y	1 set		129	TP10130	Sunk Key 3 X 3 X 10 Round-end	1	
6	(TQ05064)	Cutter - Mounting Label	1		71	TB01363	Slide Detection Device	1 set		130	TQ01923	Gear Shaft B	1	
54	(TQ05066)	Cutter - Caution Label	1		72	TP14471	Hex. Socket Bolt 4 X 20	2		131	TQ01916	Ball Bearing 6801ZZ	2	
7	TQ00927	Drill Motor Packing	1		73	FS00315	+ Pan Head Screw 2 X 20	2		132	TP04715	Hex. Bolt 4 X 8	12	
8	TP14495	Petcock Valve 1/8(PT)	1		74	TQ00729	Spring Washer M2	2		133	TQ01920	Retaining Ring RTW-9	1	
9	CP21947	Seal Packing	2		75	TQ00707	Shaft	2		134	TQ01912	Spring Stopper	1	
10	TP14500	Hose Nipple	2		76	TP03914	Hex. Nut Type 3 M16	1		135	TQ01911	Spring 0.6 X 3 X 35	1	
11	TP15821	Tube 4 X 7 X 240	1 set		77	TQ00720	Stabilizer Shaft	1		136	TQ01919	Spool	1	
12	TQ00672	Dropper Nipple	2		78	TP08598	+ Screw 3 X 5	3		137	TQ01963	Washer 14.5 X 25 X 0.6	1	
13	TB02534	Side Handle Ass'y	1 set		79	TQ00844	Name Plate - Auto Feeder	1		138	TQ02434	Spur Gear 70M1A	1	
14	TB00503	Oil Dropper Ass'y	1 set		80	TQ01903	Inner Shaft	1		139	TB01358	Clutch Gear Sub Ass'y	1 set	
15	TP15820	Tube 4 X 7 X 120	1 set		81	TQ01901	Handle Boss	1		140	TP15428	Ball 5mm Dia.	2	
16	TP03261	Spring Pin 4 X 26 AW	1		82	TP12821	Spring Pin 5 X 26	3		141	TQ01915	Gear Shaft A	1	
17	TB01672	Ball 5/16 Ass'y	1 set		83	TQ00680	Rod Handle	3		142	TQ01917	Ball Bearing 6803ZZ	1	
18	TP15998	Spring 1.6 X 16.2 X 120	1		84	CP01123	Ball 3/16	7		143	TQ01918	Shift Ring	1	
19	TQ01895	Pilot Spacer	1		85	TP06396	Spring	3		144	TQ01960	Roll Pin 4 X 22	1	
20	TP15848	Spacer 10.5 X 19 X 5	1		86	TP06397	Hex. Screw 6 X 8	3		145	TQ01909	Gear Box	1	
21	TP13905	Retaining Ring RTW-19	2		87	TP13891	Spring Pin 5 X 38	1		146	TB01356	Plain Gear 41 Ass'y	1 set	
22	TB01348	Washer Ass'y	1 set		88	TQ01902	Clutch Shaft	1		147	TP04197	Hex. Bolt 6 X 30	2	
23	TQ01898	Spring 0.8 X 12 X 31	1		89	TQ01904	Clutch Ring	1		148	TB04014	Feed Motor Ass'y	1 set	
24	TB01349	Push Ring Ass'y	1 set		90	TQ00682	Spring 1.2 X 8 X 17	1		-	(TB00599)	Carbon Brush Ass'y (2 pcs/set)	1 set	
25	TQ01896	Twist Spring	1		91	TP00092	Plain Washer M6	1		149	TP18619	Hex. Socket Head Cap Screw 4 X 30	4	
26	TQ01897	Sleeve	1		92	TQ00683	Grip Ring GS-6.0	1		150	TQ01961	Grip Ring GS-8	1	
27	TP15239	Retaining Ring C-28	1		93	TP02931	Set Screw	1		151	TB00510	Harmonic Ass'y	1 set	
28	TB00713	Oil Ring Ass'y	1 set		94	TP07419	Hex. Nut Type 3 M6	5		152	TP12328	Retaining Ring STW-9	1	
29	(TP14499)	Oil Seal GD38 X 48 X 4	2		95	TQ04781	Hex. Socket Set Screw 6 X 14	5		153	TQ01952	Clutch	1	
30	TP12773	Washer 38.5 X 54 X 1	1		96	TA9A757	Cabtyre Cable Ass'y	1 set		154	TQ00725	Ball Bearing 6809 ZZ	2	
31	TP14969	Retaining Ring ISTW-38	1		97	LP08489	+ Screw 4 X 6	1		155	TP17384	Retaining Ring C-32	1	
32	TQ04779	Oil Tank	1		98	TP13889	Connector SC4-3	2		156	TP14412	Retainer Holder	1	
33	TB03785	Cap Ass'y	1 set		99	TB08765	Body Sub Ass'y	1 set		157	TP01945	Hex. Bolt 5 X 12	1	
34	(TQ00701)	Packing Cap	1		100	(TP05136)	Rivet No. 2 X 4.8	6		159	TQ04949	Blade	1	
35	TB01380	Oil Tank Bracket Sub Ass'y	1 set		101	(TP04769)	Plate Serial Number	1		160	TB03863	Blade Base Ass'y	1 set	
36	(TP11994)	O-Ring P-4	1		102	(TQ05610)	WARNING Plate	1		161	TP14178	Hex. Bolt 6 X 10	2	
37	(CP20180)	O-Ring P-18	1		103	TB03912	Transformer Sensor Ass'y	1 set		162	TQ04952	Chip Stopper	1	
38	TP03086	Hex. Bolt 6 X 20	6		104	TP00067	Hex. Nut M3	3		164	TB08670	Fuse Holder	1	
39	TQ02497	Slide Board	1		105	TP04126	Snap Ring E-12	3						
40	TP14717	Hex. Socket Bolt 10 X 20	1		106	TQ00708	Spur Gear 24 M1.5	1						
41	TP07118	Hex. Bolt 6 X 16	2		107	TQ00706	Spur Gear 16 X 24	1						
42	TP04532	Hex. Socket Bolt 5 X 30	4		108	TB03702	Switch Ass'y	1 set						
43	TQ02496	Rack	1		109	TP02627	Hex. Nut M2	2						
44	TB02694	Bracket Ass'y	1 set		110	TB07746	Limit Switch DC3A-D3RB	1						
163	(TQ03444)	Needle Bearing B-2410	1		111	TB03911	Trans. Power Supply Ass'y (115V)	1 set						
46	TQ03344	Hex. Socket Bolt 8 X 20	6		112	TQ01330	Seal Washer M3	3						
48	TP12777	Slide Plate	2		113	TP00153	+ Screw 3 X 12	3						
49	TQ01905	Jib	1		114	TB12819	Pan Head Screw 4 X 6	2						
50	TQ00394	Seal Bushing	1		115	TB01381	Switch Knob Ass'y	1 set						
51	TQ01928	Packing for Pole	1		116	TQ05073	Switch Plate	1						
52	TB04022	Square Pole Ass'y	1 set		120	TB00573	D Cord Ass'y	1 set						
54	TQ04783	Supporter	5		121	TB03809	Cord Ass'y M-M	1 set						
55	TB00578	H Cord Ass'y	1 set		122	TQ01962	Collar Cap K-100 16CSBL	1						
57	TB00577	F Cord Ass'y	1 set											

ACCESSORIES				
No.	Part No.	Part Name	Q'ty	Price
	TP04696	Hex. Wrench Key 3	1	
	TP01939	Hex. Wrench Key 4	1	
	TP17014	Spanner 8 X 10	1	
	UEA0850	Pilot Pin 5/16" X 2" DOC	1	
	UEA0835	Pilot Pin 5/16" X 1-3/8" DOC	1	
	TA99027	Safety Chain Ass'y	1 set	
	TB02145	Cutting Oil 0.5L	1	
	TQ05611	Instruction Manual	1	
	TP10198	Tool Box 285 X 125 X 62	1	
	TQ05186	Label Combination	1	