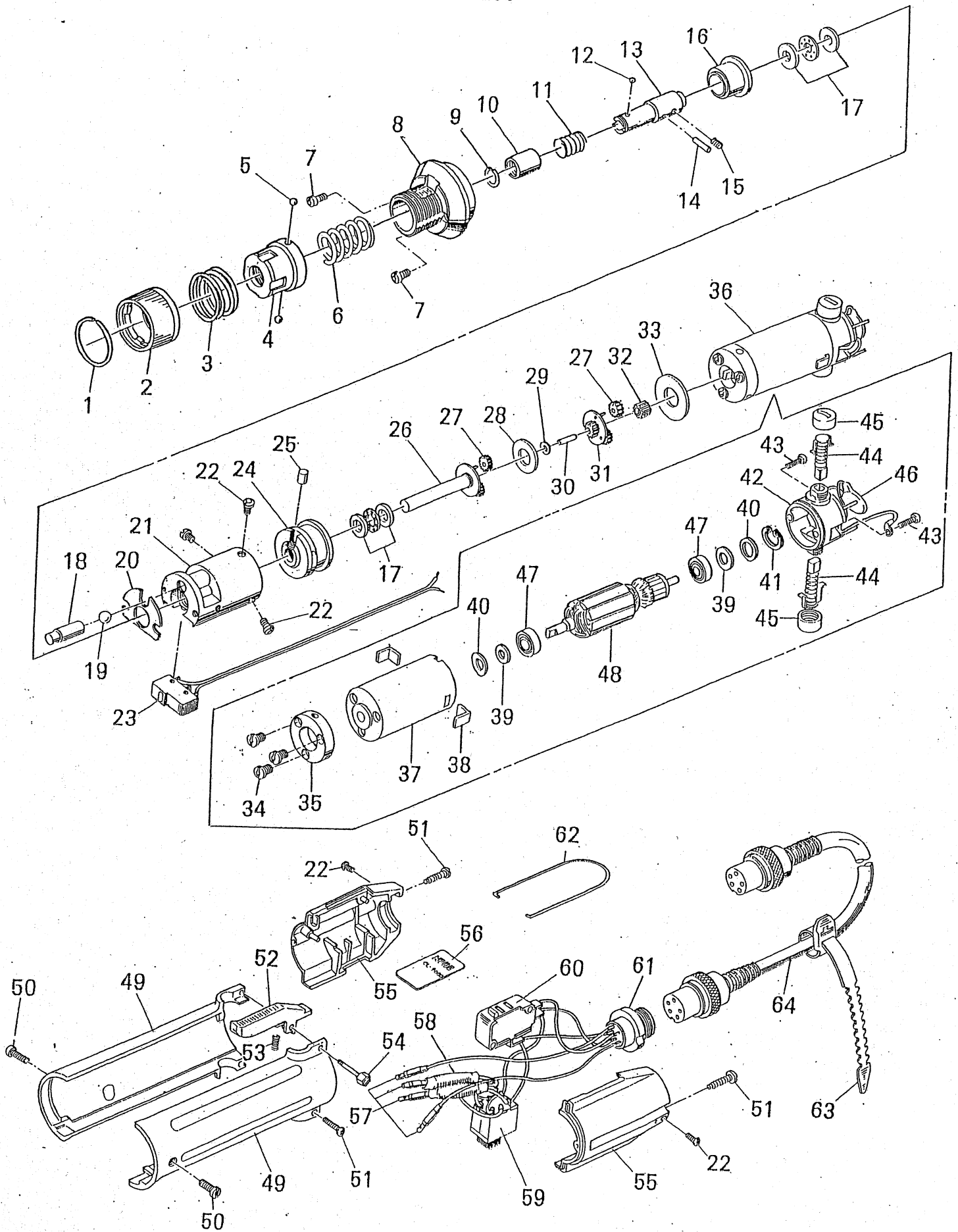


EXPLODED VIEW DRAWING
α-4500HIOS



PARTS LIST OF ALPHA-4500
(HIOS SHANK)

ISSUED: May,1992
REVISED: April, 2001

PARTS NAME	PARTS NO.	PARTS NAME	PARTS NO.
Transmission Assembly 1 - 33 (W/O 23)	A45-TM		
Transmission Assembly 1 - 33 (W/O 23)	A45X-TM	31 Upper Planet Cage	A45-0310
		32 Pinion Gear	A45-0320
Torque Adjusting Nut Assembly 1 - 5	CL4-NT	33 Grease Seal	A45-0330
1 Nut Cover Stopper	CL4-0010	Motor	_____
2 Nut Cover	CL4-0020	_____	_____
3 Nut Cover Spring	CL4-0030	34 Set Screw 3x5	STP30X050
4 Torque Adjusting Nut	CL4-0040	35 Motor Front Panel	CL4-0350
5 Steel Ball 3.0φ	BALL-03	36 Motor	A45-0360
		37 Magnet Case	_____
6 Torque Adjusting Spring 1.8φ (White)	A45-0060	38 _____	_____
7 Set Screw 2.6x10	STP26X100	39 Wave Washer	A45-0370
8 Torque Adjusting Bolt	CL4-0080	40 Rotor Adjusting Washer 0.1	A45-0380
		Motor End Cover Assembly 41 - 48	A45NL-3400
Joint Shaft Assembly 9 - 13	A45-JS		
Joint Shaft Assembly 9 - 13	A45X-JS		
9 Collar Stopper	CL4-0090	41 Ring Stopper S	A45-0390
Collar Stopper	CL4X-0090	42 Motor End Cover	A45-0400
10 Joint Shaft Collar	CL4-0100	43 Set Screw 1.7X10	STP17X100
Joint Shaft Collar	CL4X-0100	44 Carbon Brush	A45-0420
11 Collar Spring	CL4-0110	45 Carbon Brush Cap	A45-0430
Collar Spring	CL4X-0110	46 Capacitor	CL4-0441
12 Steel Ball 2.0φ	BALL-02	47 Motor Bearing	A45-0450
Steel Ball 1.5φ	BALL-015	48 Condenser 682KG	CL3NL-0440
13 Joint Shaft	A45-0130	49 Rotor	A45-0460
Joint Shaft	A45X-0130	50 Body Case A & B	A45-0470
		51 Set Screw 2.6x6	STP26X060
14 Joint Shaft Lock Pin 2x9	SR20X090	52 Set Screw 2.6x12	STPB26X120
15 Set Screw 3x3	SH30X030	53 Switch Lever	A45-0500
16 Clutch Supporter	CL4-0160	54 Switch Lever Spring	CL4-0510
		55 Switch Lever Plunger	CL4-0521
Gear Assembly 17 - 33 (W/O 23)	A45-GR	Switch Assembly 22, 56 - 63	A45-SW
17 Thrust Bearing 6x11	A45-0170		
18 Clutch Ball Rod	A45-0180	56 Switch Cover A & B	A45-0530
19 Steel Ball 5.0φ	BALL-05	57 Name Plate	A45-0540
20 Gear Case Plate	CL4-0200	58 Terminal Holder	CL4-0550
21 Gear Case	A45-0210	59 Noise Filter B	A45-0630
22 Set Screw 2.6x5	STP26X050	60 For/Rev Switch	CL4-0560
		61 Starting Switch	CL4-0570
23 Limit Switch	CL4-0230	62 5-Pin Connector	CL4-0580
		63 Hanger	CL4-0590
24 Internal Gear	A45-0240		
25 Cam Roller	A45-0250	64 Free-Up Belt	CL4-0600
26 Lower Planet Cage	A45-0260	65 5-Core Cord W/Connectors In Both Ends	CL4-0611
27 Planet Gear	A45-0270		
28 Gear Plate B	A45-0640		
29 Thrust Washer	CL4-0290		
30 Center Pin	A45-0300		