

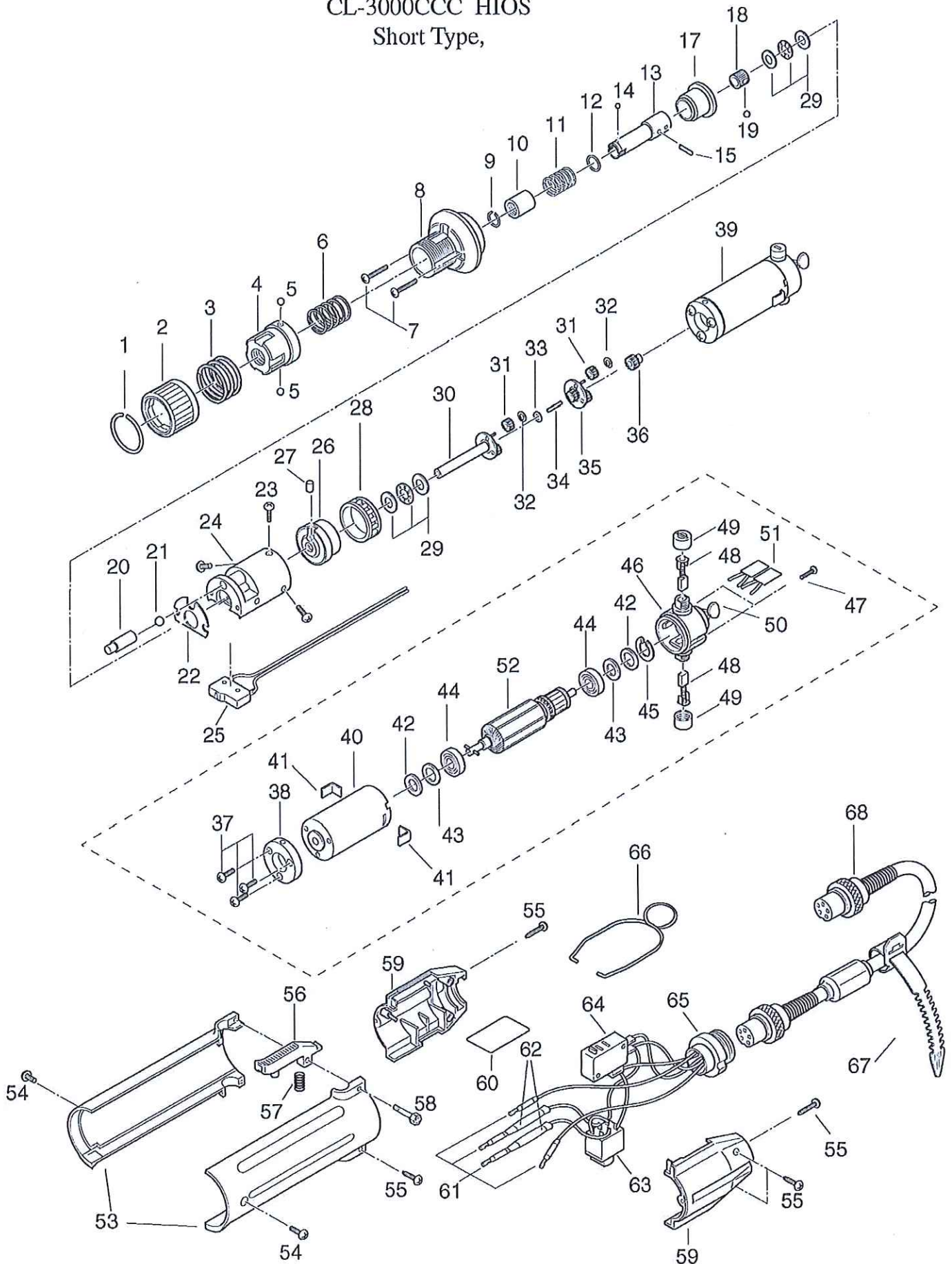
EXPLODED VIEW DRAWING

CL-3000CCC HIOS

Short Type,

Issued : Dec.8th,2011

Revised :



(Ver. No. CL3-3C-01)

HIOS inc.

PARTS LIST OF CL-3000CCC
(HIOS SHANK, SHORT TYPE)

ISSUED: November, 1991

REVISED: Mar 6th, 2013

PARTS NAME	PARTS NO.	PARTS NAME	PARTS NO.
Transmission Assembly 1 - 36 (W/O 25)	CL3-TM	Upper Planet Cage Assembly 31, 32, 35	CL4-3310
Torque Adjusting Nut Assembly 1 - 5	CL4-NT		
1 Nut Cover Stopper	CL4-0010	35 Upper Planet Cage	CL4-0310
2 Nut Cover	CL4-0020	36 Pinion Gear	CL4-0320
3 Nut Cover Spring	CL4-0030	Motor	
4 Torque Adjusting Nut	CL4-0040		
5 Steel Ball 3.0 ϕ	BALL-03	37 Set Screw 3x5	MSHF30050NITP
		38 Motor Front Panel	CL4-0350
6 Torque Adjusting Spring 1.2 ϕ (Blue)	CL3-0060	39 Motor (Short Size)	CL3-0360
Torque Adjusting Spring 1.0 ϕ (Gold)	CL3-0060-1	40 Magnet Case	_____
7 Set Screw 2.6x10	MSPF26100NIGP	41 _____	_____
8 Torque Adjusting Bolt	CL3-0080	42 Wave Washer	CL4-0370
9 Collar Stopper	CL4-0090	43 Rotor Adjusting Washer 0.1	CL4-0380-1
10 Joint Shaft Collar	CL4-0100	Rotor Adjusting Washer 0.2	CL4-0380-2
11 Collar Spring	CL4-0110		
12 Support Washer for Spring	CL3-0620	Motor End Cover Assembly 44-51	CL3NL-3400
13 Joint Shaft	CL3-0130		
14 Steel Ball 2.0 ϕ	BALL-02	44 Motor Bearing	CL4-0450
15 Joint Shaft Lock Pin 2x7	SR20X070	45 Stop Ring	CL4-0390
16 _____	_____	46 Motor End Cover	CL3-0400
17 Clutch Supporter	CL3-0160	47 Set Screw 1.7X10	STP17X100
18 Slide Ball Bearing	CL3-0630	48 Carbon Brush	A45-0420
19 Ball	_____	49 Carbon Brush Cap	A45-0430
		50 Capacitor	CL4-0441
Gear Assembly 20 - 36 (W/O 25)	CL3-GR	51 Condensor	CL3NL-0440
		52 Rotor	CL3-0460
20 Clutch Ball Rod	CL4-0180	53 Body Case A & B (Off White)	CL3-0471
21 Steel Ball 5.0 ϕ	BALL-05	54 Set Screw 2.6x6	MSPF260603CTMG
22 Gear Case Plate	CL4-0200	55 Set Screw 3.5X12	BOHD5F35120NITP
23 Set Screw 2.6x5	MSPF260503CTMG	56 Switch Lever	CL4-0501
24 Gear Case	CL3-0210	57 Switch Lever Spring	CL4-0511
		58 Switch Lever Plunger	CL4-0521
25 Limit Switch	CL4-0230		
		Switch Assenmbly 23, 59-66	CL3C-SW
26 Internal Gear	CL3-0240		
27 Cam Roller	CL4-0250	59 Switch Cover A & B (Off White)	CL3-0531
28 Needle Ball Bearing	CL3-0640	60 Name Plate	CL3-0540
29 Thrust Bearing 5x11	CL4-0170	61 Terminal Holder	CL4-0550
		62 Noise Filter	A45-0630
Lower Planet Cage Assembly 30 - 32	CL4-3260	63 For/Rev Switch	CL4-0560
		64 Starting Switch	CL4-0570
30 Lower Planet Cage	CL4-0260	65 5-Pin Connector	CL4-0580
31 Planet Gear	CL4-0270	66 Hanger	CL4-0594
32 E-Ring	CL4-0280	67 Free-Up Belt	CL4-0600
		68 5-Core Cord W/Connectors In Both Ends	CL4C-0611
33 Thrust Washer	CL4-0290		
34 Center Pin	CL4-0300		