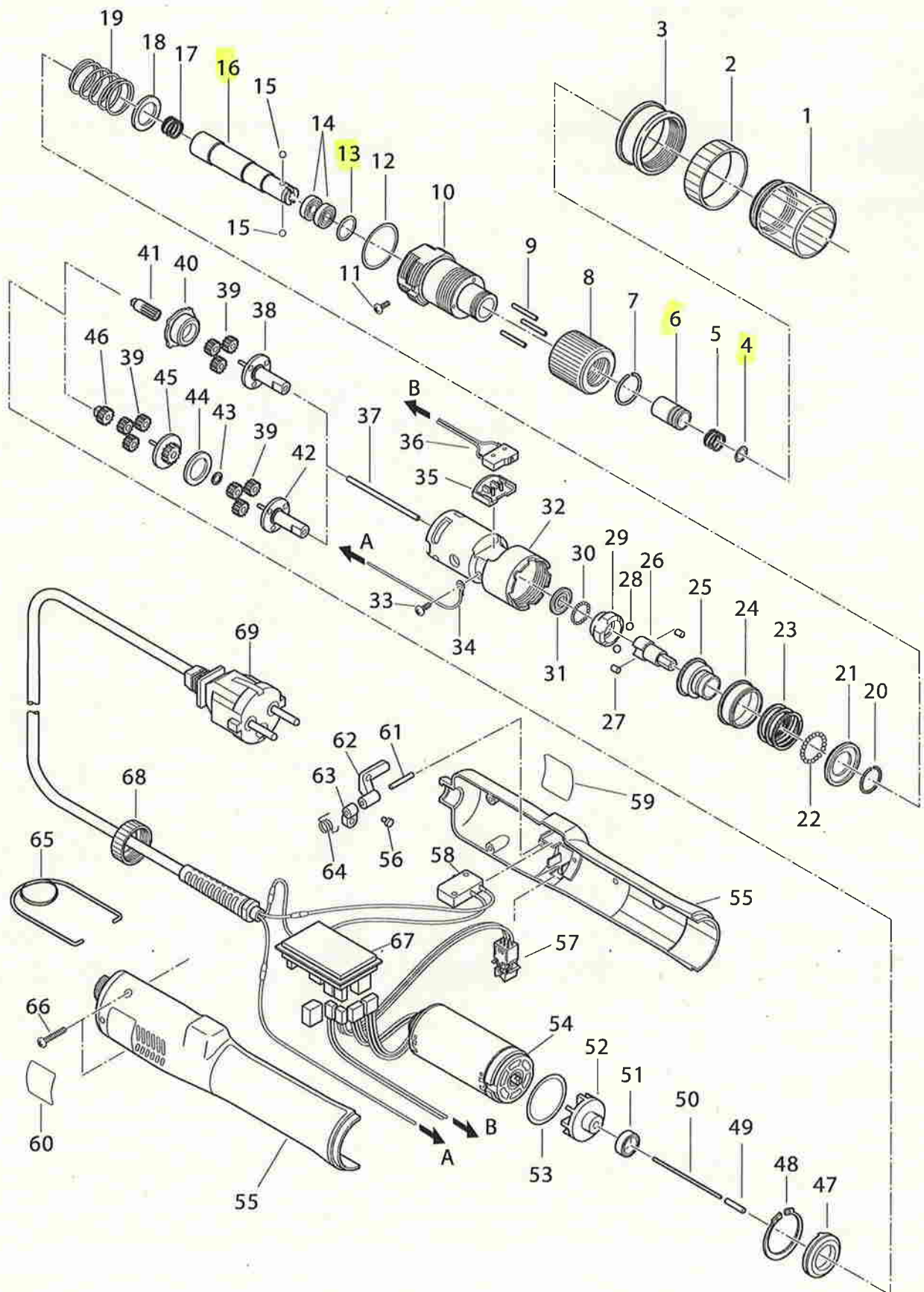


EXPLODED VIEW DRAWING
VB - 1820PS / 3012PS (230V)



PARTS LIST OF VB-1820PS /3012PS (230V)
(Push to Start Type)

ISSUED: February, 2007

PARTS NAME	PARTS NO.	PARTS NAME	PARTS NO.
1 Torque Adjusting Protect Cover	VB18-0920	45 Upper Planet Cage	VZ30-0400
Front Ring Assy (2 , 3)	VB18-3010-1	46 Pinion Gear	VZ30-0410
2 Rubber Ring	VB18-0930	47 Grease Seal	VZ18-0660
3 Front Ring	VB18-0012	48 OV-Ring	VZ18-0350
4 Collar Stopper for HIOS	CL65-0110	49 Joint Pin	VZ18PS-0700
for 1/4 HEX	VZ18X-0070	50 Center Pin 2X21.8	VZ18-0041
5 Collar Spring	BL65-0120	51 Bearing (included with No.52)	-----
6 Joint Shaft Collar for HIOS	VZ18-0081	52 Fan	VB18-3380
for 1/4 HEX	VB18X-0080	53 -----	-----
7 Nut Stopper Ring	VZ18-0022	54 Motor	VB18-0390B
8 Torque Adjusting Nut	VZ18-0030	55 Body Case A&B	VB18PS-0563
9 Knotting Roller	VZ30-0040	56 Pivot	VZ18PS-0660
10 Torque Adjusting Bolt	VZ18-0052		
11 Set Screw 3X25	SPP30X025	Circuit Assmly	VB18-3550B
12 O-Ring 18dia	M3-0260		
13 Spling Stopper for HIOS	ACL20-0130	57 For/Rev Switch	VB18-3521
for 1/4 HEX	VZ18X-0130	58 Limit Switch	CL4-0230
14 Bearing 15X10X4 (X2) Included no.10		59 Name Plate	VZ18-0601
15 Steel Ball 2.5dia	BALL-025	60 Name Plate for VB-1820PS	VB1820PS-0610
16 Joint Shaft for HIOS	VZ18-0120	for VB-3012PS	VB3012PS-0610
for 1/4 HEX	VZ18X-0120	61 Lever Shaft 2X18.8	VZ18-0580
17 Push Spring	VZ18-0651	62 } Push Lever	VB18PS-0572-AB
18 Spring Holder	VZ18-0150	63 }	
19 Torque Adjusting Spring for VB-1820	VZ18-0160		
Torque Adjusting Spring for VB-3012	VB30-0161		
20 Thrust Washer Set Ring	VZ45-0170	64 Push Lever Spring	VB18PS-0680
21 Thrust Washer	VZ18-0180	65 Hanger	CL65-0651
22 Steel Ball 2.5dia	BALL-025	66 Set Screw 3x12	BOHD5F35120NITP
23 Clutch Panel Spring	VZ30-0220	67 PCB Assembly (Included in Circuit Assy)	-----
24 Clutch Panel Cover	VZ18-0210	68 End Ring	VB18-0642-1
25 Clutch Panel	VZ18-0220	69 AC Cord W/Earth	VZ18-0651B
26 Cam	VZ18-0241		
27 Cam Roller 4.5X4.5	VZ40-0250		
28 Steel Ball 4.5dia	BALL-045		
29 Ball Guide	VZ18-0262		
30 Steel Ball 2.5dia	BALL-025		
31 Thrust	VZ18-0270		
32 Gear Case	VZ18-0280		
33 Set Screw 3x2.5	SPP30X025		
34 Ground Connector	-----		
35 Switch Protector	VZ18-0290		
36 Limit Switch	CL4-0230		
37 Center Pin	VZ18PS-0690		
38 Lower Planet Cage	VZ18-0310		
39 Planet Gear	VZ18-0320		
40 Spacer	VZ18-0330		
41 Pinion Gear	VZ18-0360		
42 Lower Planet Cage	VZ30-0360		
43 Thrust Washer	CL4-0290		
44 Plate B	VZ30-0390		