

PARTS LIST OF VB-1820 /3012 (100V)
(Lever Start Type)

ISSUED : February, 2007
REVISED : JUL30th,2009

PARTS NAME	PARTS NO.	PARTS NAME	PARTS NO.
1 Torque Adjusting Protect Cover Front Ring Assy (2 , 3)	VB18-0920 VB18-3011	44 Plate B	VZ30-0390
2 Rubber Ring	_____	45 Upper Planet Cage	VZ30-0400
3 Front Ring	_____	46 Pinion Gear	VZ30-0410
4 Collar Stopper for HIOS for 1/4 HEX	CL65-0110 VZ18X-0070	47 Grease Seal	ACL20-0351
5 Collar Spring	BL65-0120	48 OV-Ring	VZ18-0350
6 Joint Shaft Collar for HIOS for 1/4 HEX	VZ18-0081 VB18X-0080	49 Bearing (included with No.49)	-----
7 Nut Stopper Ring	VZ18-0022	50 Fan Assy	VB18-3380
8 Torque Adjusting Nut	VZ18-0030	51 Insulation Ring	VZ18-0400
9 Knotting Roller for VB-1820 for VB-3012	VZ18-0041 VZ30-0040	52 Motor	VB18-0390
10 Torque Adjusting Bolt (W/Bearing)	VZ18-3050	53 Body Case A&B	VB18-0562
11 Set Screw 3X25	SPP30X025	54 OPC Cap	VB18-0020
12 O-Ring 18dia	M3-0260	55 Switch Lever	VB18-0570
13 Spling Stopper for HIOS for 1/4 HEX	ACL20-0130 VZ18X-0130	— Circuit Assmby (#34,36,60-62)	VB18-3560
14 Bearing 15X10X4 (X2) Included no.10			
15 Joint Shaft Stopper	VZ18-0140	56 Lever Spring	VB18-0591
16 Steel Ball 2.5dia	BALL-025	57 Lever Shaft	VB18-0030
17 Joint Shaft for HIOS for 1/4 HEX	VZ18-0120 VZ18X-0120	58 Name Plate A (Causion Seal)	VZ18-0601
		59 Name Plate B for VB-1820 for VB-3012	VB18-0610 VB3012-0610
18 Spring Holder	VZ18-0150		
19 Torque Adjusting Spring for VB-1820 Torque Adjusting Spring for VB-3012	VZ18-0160 VZ30-0160	60 For/Rev Switch	VB18-0521
20 Thrust Washer Set Ring	VZ45-0170	61 Limit Switch	CL4-0230
21 Thrust Washer	VZ18-0180	62 PCB Assembly (Included in Circuit Assy)	-----
22 Steel Ball 2.5dia	BALL-025	63 Set Screw 3 X 16	B0HD5F35160NITP
23 Clutch Panel Spring	VZ30-0220	64 Hanger	CL65-0651
24 Clutch Panel Cover	VZ18-0210	65 End Ring for LEVER type	VB18-0643
25 Clutch Panel	VZ18-0220	66 AC Cord W/Earth	VZ18-0653
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		