

PARTS LIST OF VZ-1820, 3012 (HIOS, HEX)
LEVER TYPE 120V

ISSUED: August, 1994
REVISED: Apr. 4th, 2013

PARTS NAME	PARTS NO.	PARTS NAME	PARTS NO.
1 Front Ring	VZ18-0010U	38 Lower Planet Cage	VZ30-0360
2 Nut Stopper Ring	VZ18-0022	39 Planet Gear 10.8/1, 6pcs	VZ30-0370
3 Torque Adjusting Nut	VZ18-0031	40 Thrust Washer	CL4-0290
4 Knotting Roller for VZ-1820, 3pcs for VZ-3012, 3pcs	VZ18-0041	41 Plate B	VZ30-0390
5 Torque Adjusting Bolt	VZ30-0040	42 Upper Planet Cage	VZ30-0400
6 Set Screw 3x2.5	VZ18-3050	43 Pinion Gear 10.8/1	VZ30-0410
7 O-Ring 18φ	SPP30X025	44 Grease Seal	ACL20-0351
8 Collar Stopper for HIOS SHANK for HEX SHANK	M3-0260	45 OV-Ring	VZ18-0350
9 Joint Shaft Collar for HIOS SHANK for HEX SHANK	CL65-0110	46 Joint Pin	VZ18-0700U
10 Collar Spring	VZ18X-0070	47 Bearing for Fan (Includes No. 48)	_____
11 Spring Stopper for HIOS SHANK for HEX SHANK	VZ18-0080	48 Fan	VZ18-3380
12 Bearing 15x10x4 (x2) Includes No. 5	VZ18X-0080	49 Motor Assembly 120V	VZ18-0390-120
13 Joint Shaft Stopper	CL65-0130	50 _____	_____
14 Steel Ball 2.0φ, 2pcs	ACL20-0130	51 Front Cover	VZ18-0420U
15 Joint Shaft for HIOS SHANK for HEX SHANK	VZ18X-0130	52 Motor Set Band	VZ18-0410
16 Spring Holder	_____	53 Ball Bearing	VZ18-0430
17 Torque Adj. Spring 2.5φ (Silver) for VZ-1820 Torque Adj. Spring 3.0φ (Black) for VZ-3012	VZ18-0140	54 Rotor	VZ18-0440U
Clutch Panel Set 18-20A, 22-23	BALL-02	55 Magnet Case	_____
18 Thrust Washer Set Ring	VZ18-0121	56 Motor Bearing	CL65-0410
19 Thrust Washer	VZ18X-0120	57 End Cover	VZ18-0470
20A Steel Ball 2.5φ	VZ18-0150	58 Carbon Brush	VZ18-0480
20B Steel Ball 2.5φ for HIOS SHANK 2.0φ for HEX SHANK	VZ18-0160	59 Carbon Brush Cap	VZ18-0490
21 Clutch Panel Spring	VZ30-0160	Circuit Assembly (included #30, 61, 62)	VZ18-3551K
22 Clutch Panel Cover	VZ18-3220	60 Capacitor A	VZ18-0501
23 Clutch Panel	VZ18-0170	60a Capacitor B	VZ18-0511
24 CAM	VZ18-0180	For/Rev Switch Assy (#61, 62)	VZ18-3521U
25 Steel Ball 4.5φ, 2pcs	BALL-025	61 For/Rev Switch	_____
26 Ball Guide	BALL-02	62 Noise Filter (Surge Absorber)	_____
27 Thrust	VZ30-0200	63 Sleeve	_____
28 Gear Case for VZ-1820 for VZ-3012	VZ18-0210	64 Earth Cord	_____
29 Switch Protector	VZ18-0220	65 P.C.B. Assembly (Includes Circuit Assy)	_____
30 Limit Switch	VZ18-0241	66 Switch Plate	VZ18-0741U
31 Set Screw 3.5x5.5	BALL-045	67 Body Case A & B	VZ18-0562U
32 Ground Connector (Includes No. 76)	VZ18-0262	68 Switch Lever	VZ18-0571U
33 Center Pin 2x67.1	VZ18-0270	69 Lever Shaft 2X18.8	VZ18-0580
34 Lower Planet Cage	VZ18-0280	70 Switch Lever Spring	VZ18-0591
35 Planet Gear 6.33/1, 3pcs	VZ18-0281	71 Name Plate (Caution Seal)	VZ18-0600U
36 Spacer	MSHW7F350553CTP	72 Name Plate B (Model No. Seal)	_____
37 Pinion Gear 6.33/1	_____	73 Set Screw 3.5x12, 2pcs	BOHD5F35120NITP
	VZ18-0690	74 Hanger	CL65-0651
	VZ18-0310	75 End Ring	VZ18-0641U
	VZ18-0320	76 Cord Assembly	VZ18-3651U
	VZ18-0330		
	VZ18-0360		