PARTS LIST OF VZ-1820, 3012
(LEVER TYPE 100V HIOS/HEX) W/Earth

ISSUED: August,1994
REVISED: FEB.2nd,2011

	PARTS NAME	PARTS NO.
1	Front Ring	VZ18-0010
2	Nut Stopper Ring	VZ18-0022
3	Torque Adjusting Nut	VZ18-0030
4	Knotting Roller 2x21.8 [for VZ-1820]	VZ18-0041
	Knotting Roller 2x20.8 [for VZ-3012]	VZ30-0040
5	Torque Adjusting Bolt	VZ18-3050
6	O-Ring 18φ	M3-0260
7	Collar Stopper for HIOS SHANK	CL65-0110
	for HEX SHANK	VZ18X-0070
8	Joint Shaft Collar for HIOS SHANK	VZ18-0080
	for HEX SHA	VZ18X-0080
9	Collar Spring	CL65-0130
10	Washer Spring Stopper for HIOS SHANK	ACL20-0130
	f	VZ18X-0130
11	Bearing 15x10x4 (x2) Includes No.5	———
12	Joint Shaft Stopper	VZ18-0140
13	Steel Ball 2.5φ	BALL-025
14	Joint Shaft for HIOS SHANK	VZ18-0121
	for HEX SHANK	VZ18X-0120
15	Spring Holder	VZ18-0150
16	Torque Adj. Spring 2.6φ (Silver) for VZ	VZ18-0160
	Torque Adj. Spring 3.6φ (Black) for VZ-	VZ30-0160
	Clutch Panel Set 17-19A.21-22	VZ18-3220
17	Thrust Washer Set Ring	VZ18-0170
18	Thrust Washer	VZ18-0180
19A	Steel Ball 2.5φ	BALL-025
19B	Steel Ball 2.5φ for HIOS SHANK	BALL-025
	2.0φ for HEX SHANK	BALL-020
20	Clutch Panel Spring (VZ-1820)	VZ18-0200
	(VZ-30	VZ30-0200
21	Clutch Panel Cover	VZ18-0210
22	Clutch Panel	VZ18-0220
23	Cam	VZ18-0241
24	Steel Ball 4.5φ	BALL-045
25	Ball Guide	VZ18-0262
26	Thrust	VZ18-0270
27	Gear Case	VZ18-0280
	Gear Case	VZ18-0281
28	Switch Protector	VZ18-0290
29	Limit Switch	CL4-0230
30	Set Screw 3x5	MYPW6F30050NITP
31	Ground Connector (Included in NO.75)	———
32	Center Pin 2x 71.9	VZ18-0690
33	Lower Planet Cage	VZ18-0310
34	Planet Gear 6.33/1	VZ18-0320
35	Spacer	VZ18-0330
36	Pinion Gear 6.33/1	VZ18-0360

	PARTS NAME	PARTS NO.
37	Lower Planet Cage	VZ30-0360
38	Planet Gear 10.8/1	VZ30-0370
39	Thrust Washer	CL4-0290
40	Gear Plate B	A65-0680(VZ-30120NLY)
41	Upper Planet Cage	VZ30-0400
42	Pinion Gear 10.8/1	VZ30-0410
43	Grease Seal	ACL20-0351
44	OV-Ring	VZ18-0350
45	Nylon Rod	VZ18-0700
46	Bearing for Fan (Includes NO.47)	———
47	Fan	VZ18-3380
48	Motor Assembly 100V	VZ18-0390
49	———	———
50	Front Cover	VZ18-0420
51	Motor Set Band	VZ18-0410
52	Ball Bearing	VZ18-0430
53	Rotor 100V	VZ18-0440
54	Magnet Case	———
55	Motor Bearing	CL65-0410
56	End Cover	VZ18-0470
57	Carbon Brush	VZ18-0480
58	Carbon Brush Cap	VZ18-0490
59	Condenser A	VZ18-0501
60	Condenser B	VZ18-0511
	Circuit Assy (Included #29,61,62,65) 10	VZ18-3551
	For/Rev Switch Assembly 61.62 100V	VZ18-3520
61	For/Rev Switch	———
62	Noise Filter (Surge Absorber)	———
63	Sleeve (Included In no.75)	———
64	Earth Cord (Included In NO.75)	———
65	P.C.B.Assembly(Includes Circuit Assy)	———
66	Body Case A & B	VZ18-0563
67	Switch Lever	VZ18-0571
68	Lever Shaft 2X18.8	VZ18-0580
69	Switch Lever Spring	VZ18-0591
70	Name Plate (Caution Seal)	VZ18-0601
71	Name Plate B (Model No.Seal)	VZ1820-0610
	Name Plate B (Model No.Seal)	VZ3012-0610
72	Set Screw3.5x12	BOHD5F35120NITP
73	Hanger	CL65-0651
74	End Ring	VZ18-0641
75	A.C.CORD 100V	VZ18-0653