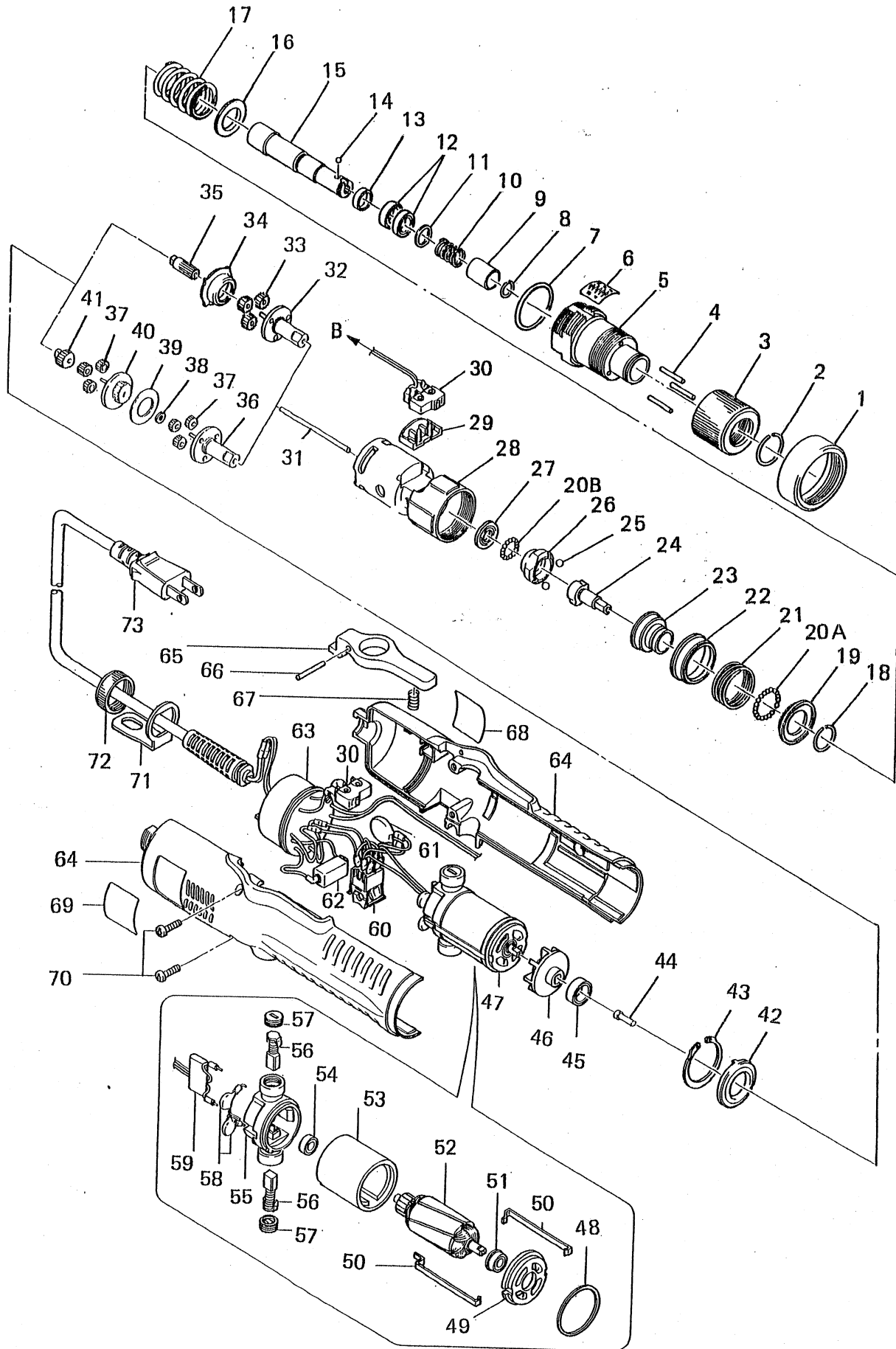


EXPLODED VIEW DRAWING
VZ-1820, 3012



PARTS LIST OF VZ-1820, -3012
(LEVER TYPE, 100V)

JANUARY, 1995

REF. NO. PARTS NAME	PARTS NO.	REF. NO. PARTS NAME	PARTS NO.
1. Front Ring	VZ18-0010	36. Lower Planet Cage for VZ-3012	VZ30-0360
2. Nut Stopper Ring	VZ18-0020	37. Planet Gear 10.8/1 (x6)	
3. Torque Adjusting Nut	VZ18-0030	for VZ-3012	VZ30-0370
4. Knotting Roller (x3)	VZ18-0041	38. Thrust Washer for VZ-3012	CL4-0290
5. Torque Adjusting Bolt	VZ18-3050	39. Plate B for VZ-3012	VZ30-0390
6. Torque Seal	VZ18-0060	40. Upper Planet Cage for VZ-3012	VZ30-0400
7. O-Ring 18φ	M3-0260	41. Pinion Gear 10.8/1 for VZ-3012	VZ30-0410
8. Collar Stopper	CL05-0110		
9. Joint Shaft Collar	VZ18-0080	42. Grease Seal	ACL20-0351
10. Collar Spring	CL05-0130	43. OV-Ring	VZ18-0350
11. Stopper Washer (Spring Stopper)	VZ18-0130	44. Joint Pin	VZ18-0700
12. Bearing 15x10x4 (x2) (Includes NO.5)	-----	45. Bearing for Fan (Includes No.48)	-----
13. Joint Shaft Stopper	VZ18-0140	46. Fan	VZ18-3380
14. Steel Ball 2.5φ (x2)	BALL-025		
15. Joint Shaft	VZ18-0120	47. Motor Assembly (100V)	VZ18-0390
16. Spring Holder	VZ18-0150	48. -----	-----
17. Torque Adjusting Spring		49. Front Cover	VZ18-0420
for VZ-1820 2.6φ (Silver)	VZ18-0160	50. Motor Set Band (x2)	VZ18-0410
for VZ-3012 3.0φ (Black)	VZ30-0160	51. Ball Bearing	VZ18-0430
Clutch Panel Set 18-20A,21-23	VZ18-3220	52. Rotor	VZ18-0440
		53. Magnet Case	-----
18. Thrust Washer Set Ring	VZ18-0170	54. Ball Bearing	CL05-0410
19. Thrust Washer	VZ18-0180	55. End Cover	VZ18-0470
20A. Steel Ball 2.5φ (x22)	BALL-025	56. Carbon Brush (x2)	VZ18-0480
20B. Steel Ball 2.5φ (x15)	BALL-025	57. Carbon Brush Cap (x2)	VZ18-0490
21. Clutch Panel Spring	VZ18-0200	Circuit Assembly (30(x2),58-63)	VZ18-3550
22. Clutch Panel Cover	VZ18-0210	58. Condenser A	VZ18-0500
23. Clutch Panel	VZ18-0220	59. Condenser B	VZ18-0510
		For/Rev Switch Assembly (60,61)	VZ18-3520
24. Cam	VZ18-0240	60. For/Rev Switch	-----
25. Steel Ball 4.5φ (x2)	BALL-045	61. Noise Filter (Surger Absorber)	-----
26. Ball Guide	VZ18-0260		
27. Thrust	VZ18-0270	62. Resistor	VZ18-0540
28. Gear Case	VZ18-0280	63. P.C.B. Assembly	
29. Switch Protector	VZ18-0290	(Includes CIRCUIT ASS'Y)	-----
30. Limit Switch (x2)	CL4-0230		
31. Center Pin (Push Rod B) 2x67.1	VZ18-0690	64. Body Case A & B	VZ18-0560
32. Lower Planet Cage for VZ-1820	VZ18-0310	65. Switch Lever	VZ18-0570
33. Planet Gear 6.33/1 (x3)		66. Switch Lever Shaft	VZ18-0580
for VZ-1820	VZ18-0320	67. Switch Lever Spring	VZ18-0590
34. Spacer for VZ-1820	VZ18-0330	68. Name Plate A	VZ18-0600
35. Pinion Gear 6.33/1 for VZ-1820	VZ18-0360	69. Name Plate B (Model No. Seal)	
		for VZ-1820	VZ1820-0610
		for VZ-3012	VZ3012-0610
		70. Body Case Set Screw 3x12 (x2)	STP30X120
		71. Hanger	VZ18-0630
		72. End Ring	VZ18-0640
		73. A.C. Cord (100V)	VZ18-0650