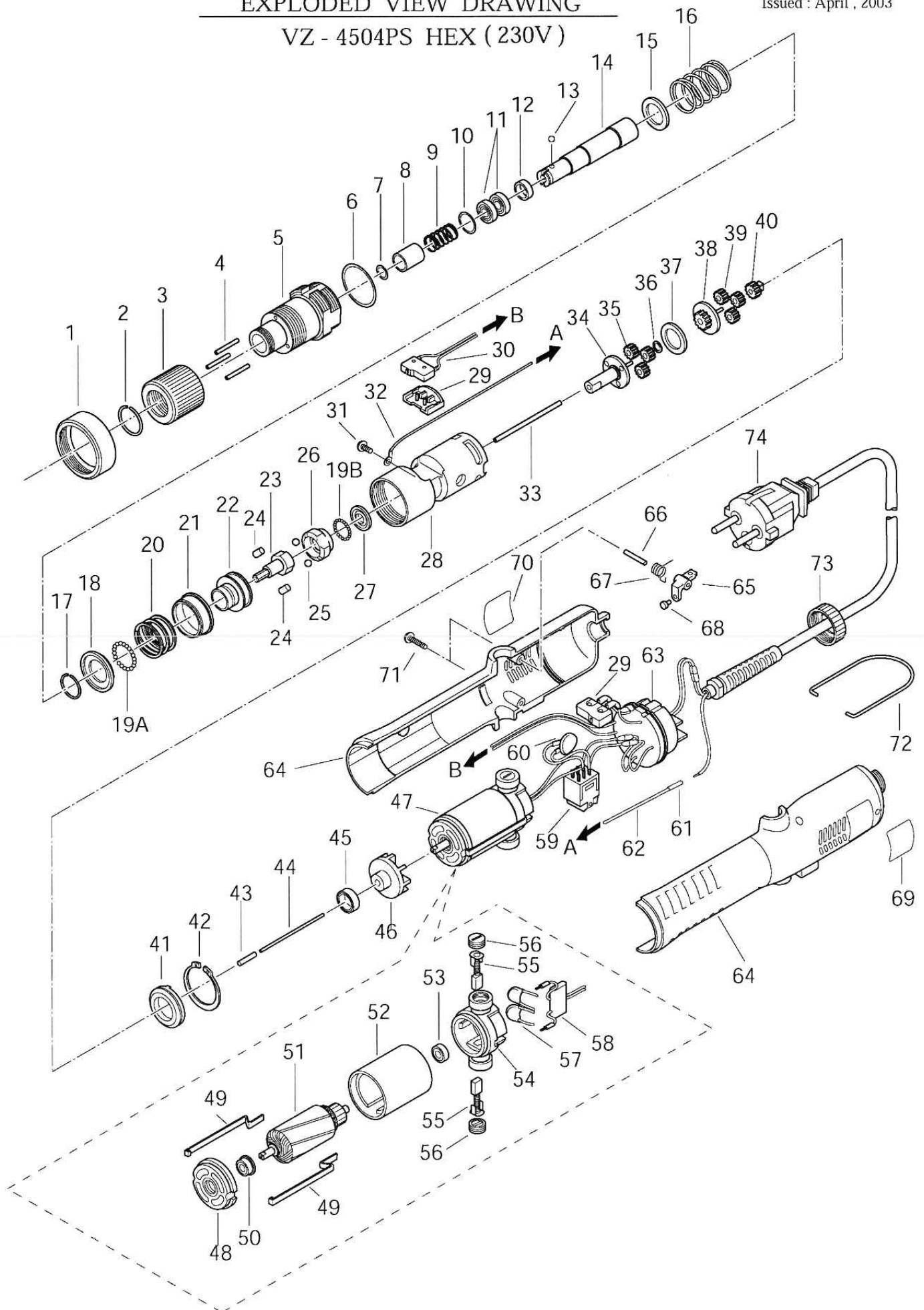


EXPLODED VIEW DRAWING

VZ - 4504PS HEX (230V)

Issued : April , 2003



(Ver No. VZ-412-B)

HIOS inc.

Parts List of VZ-4504
(Push to Start Type, 230V, HEX)

Issued : October,1998
Revised : April,2003

Ref.No.	Parts Name	Parts No.	Ref.No.	Parts Name	Parts No.
1. Front Ring (Green)		VZ18-0010B	41. Grease Seal		VZ18-0660 <i>ACL20-0251</i>
2. Nut Stopper Ring		VZ18-0020	42. OV-Ring		VZ18-0350
3. Torque Adjusting Nut		VZ18-0030	43. Nylon Rod		VZ18PS-0700
4. Knotting Roller 2x19.8 (x3)		DL20-0140	44. Push Rod		VZ18PS-0770
5. Torque Adjusting Bolt		VZ18-3050	45. Bearing for Fan (included in No.46)		_____
6. O-Ring 18φ		M3-0260	46. Fan		VZ18-3380
7. Collar Stopper (6.35 HEX.)		VZ18X-0070	47. Motor Assembly (230V)		VZ18-0390B
8. Joint Shaft Collar (6.35 HEX.)		VZ18X-0080	48. Front Cover		VZ18-0420
9. Collar Spring		CL65-0130	49. Motor Set Band (x2)		VZ18-0410
10. Stopper Washer		VZ18X-0130	50. Ball Bearing		VZ18-0430
11. Bearing 15x10x4 (x2)includesNo.5		_____	51. Rotor (230V)		VZ18-0440B
12. Steel Ball 2.0φ (x2)		BALL-02	52. Magnet Case		_____
13. Joint Shaft (6.35 HEX.)		VZ18X-0120	53. Ball Bearing		CL65-0410
14. Push Spring		VZ18PS-0590	54. End Cover		VZ18-0470
15. Spring Holder		VZ18-0150	55. Carbon Brush (x2)		VZ18-0480B
16. Torque Adjusting Spring		VZ45-0160	56. Carbon Brush Cap (x2)		VZ18-0490
Clutch Panel Set 17-19A, 20-22		VZ45-3220	57. Condenser A		VZ18-0500
17. Thrust Washer Set Ring		VZ18-0170	58. Condenser B		VZ18-0511B
18. Thrust Washer		VZ18-0180	Circuit Assembly 30(x2), 59-63		VZ18PS-3551B
19A. Steel Ball 2.5φ (x22)		BALL-025	For/Rev Switch Assembly 59, 60		VZ18-3521
19B. Steel Ball 2.5φ (x15)		BALL-025	59. For/Rev Switch		_____
20. Clutch Panel Spring		VZ30-0200	60. Noise Filter (Surge Absorber)		_____
21. Clutch Panel Cover		VZ18-0210	61. Sleeve (included in No. 74)		_____
22. Clutch Panel		VZ45-0220	62. Earth Cord (included in No.74)		_____
23. Cam		VZ45-0240	63. P.C.B Assembly (includes circuit assy)		_____
24. Cam Roller 4.5x4.5 (x2)		VZ40-0250	64. Body Case A & B (Green)		VZ18PS-0560B
25. Steel Ball 4.5φ (x2)		BALL-045	65. Push Lever		VZ18PS-0570
26. Ball Guide		VZ18-0260	66. Push Lever Shaft		VZ18-0580
27. Thrust		VZ18-0270	67. Push Lever Spring		VZ18PS-0670
28. Gear Case		VZ40-0280	68. Pivot		VZ18PS-0660
29. Switch Protector		VZ18-0290	69. Name Plate A (Caution Seal)		VZ4504-0600B
30. Limit Switch (x2)		CL4-0230	70. Name Plate B (Model No. Seal)		VZ4504-0610B
31. Set Screw 3x6		SPW30X060	71. Body Case Set Screw 3x12 (x2)		STP30X120
32. Ground Connector (included in No. 74)		_____	72. Hanger		VZ18-0630
33. Center Pin 2x71.9		VZ18PS-0690	73. End Ring		VZ18-0640B
34. Lower Planet Cage		VZ4504-0360	74. A.C. Cord (230V)		VZ18-3651B
35. Planet Gear 31/1 (5.0) (x3)		VZ4506-0370			
36. Thrust Washer		CL4-0290			
37. Plate B <i>A65A-0680</i>		VZ30-0390			
38. Upper Planet Cage		VZ4504-0400			
39. Planet Gear 31/1 (6.33) (x3)		VZ4504-0370			
40. Pinion Gear 31/1		VZ4504-0410			