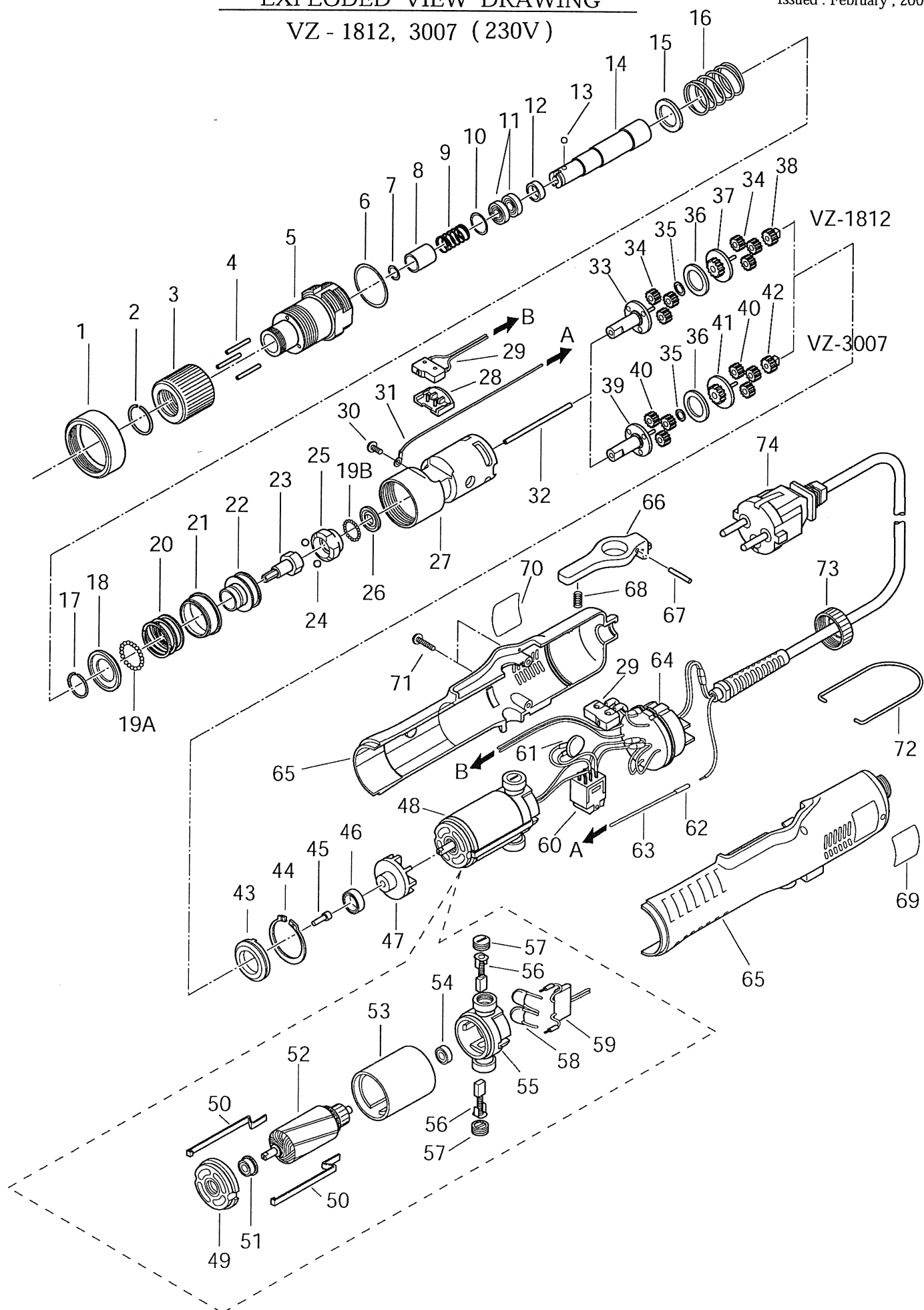


EXPLODED VIEW DRAWING

VZ - 1812, 3007 (230V)

Issued : February , 2001



(Ver No. VZ-122-B)

HIOS inc.

**Parts List of VZ-1812,-3007
(Lever Type, 230V, HIOS/HEX)**

Issued : February, 2001

Ref.No.	Parts Name	Parts No.	Ref.No.	Parts Name	Parts No.
1. Front Ring (Green)		VZ18-0010B	37. Upper Planet Cage for VZ-1812		VZ30-0400
2. Nut Stopper Ring		VZ18-0020	38. Pinion Gear 10.8/1 for VZ-1812		VZ30-0410
3. Torque Adjusting Nut		VZ18-0030			
4. Knotting Roller(x3) for VZ-1812		VZ18-0041	39. Lower Planet Cage for VZ-3007		VZ3007-0360
for VZ-3007		VZ30-0040	40. Planet Gear 18/1 (x6) "		VZ3007-0370
5. Torque Adjusting Bolt		VZ18-3050	41. Upper Planet Cage "		VZ3007-0400
6. O-Ring 18φ		M3-0260	42. Pinion Gear 18/1 "		VZ3007-0410
7. Collar Stopper for HIOS Shank		CL65-0110	43. Grease Seal		VZ18-0660
for HEX Shank 6.35		VZ18X-0070	44. OV-Ring		VZ18-0350
8. Joint Shaft Collar for HIOS shank		VZ18-0080	45. Joint Pin		VZ18-0700
for HEX Shank 6.35		VZ18X-0080	46. Bearing for Fan (included in No.47)		
9. Collar Spring		CL65-0130	47. Fan		VZ18-3380
10. Stopper Washer (Spring Stopper)					
for HIOS Shank		VZ18-0130	48. Motor Assembly (230V)		VZ18-0390B
for HEX Shank 6.35		VZ18X-0130	49. Front Cover		VZ18-0420
11. Bearing 12x10x4 (x2)includesNo.5			50. Motor Set Band (x2)		VZ18-0410
12. Joint Shaft Stopper		VZ18-0140	51. Ball Bearing		VZ18-0430
13. Steel Ball 2.5φ (x2) for HIOS		BALL-025	52. Rotor (230V)		VZ18-0440B
Steel Ball 2.0φ (x2) for HEX		BALL-02	53. Magnet Case		
14. Joint Shaft for HIOS Shank		VZ18-0120	54. Ball Bearing		CL65-0410
for HEX Shank		VZ18X-0120	55. End Cover		VZ18-0470
15. Spring Holder		VZ18-0150	56. Carbon Brush (x2)		VZ18-0480B
16. Torque Adjusting Spring			57. Carbon Brush Cap (x2)		VZ18-0490
for VZ-1812 2.6φ Silver		VZ18-0160			
for VZ-3007 3.0φ Black		VZ30-0160	Circuit Assembly 29(x2), 58-64		VZ18-3551B
Clutch Panel Set 17-19A, 20-23		VZ18-3220	58. Condenser A		VZ18-0500
			59. Condenser B		VZ18-0511B
17. Thrust Washer Set Ring		VZ18-0170	For/Rev Switch Assembly 60, 61		VZ18-3521B
18. Thrust Washer		VZ18-0180	60. For/Rev Switch		
19A. Steel Ball 2.5φ (x22)		BALL-025	61. Noise Filter (Surge Absorber)		
19B. Steel Ball 2.5φ (x15)		BALL-025			
20. Clutch Panel Spring		VZ18-0200	62. Sleeve (included in No.74)		
21. Clutch Panel Cover		VZ18-0210	63. Earth Cord (included in No.74)		
22. Clutch Panel		VZ18-0220	64. P.C.B Assembly (included in circuit assy)		
23. Cam for VZ-1812		VZ18-0240			
for VZ-3007		VZ3007-0240	65. Body Case A & B (Green)		VZ18-0561B
24. Steel Ball 4.5φ (x2)		BALL-045	66. Switch Lever (Green)		VZ18-0570B
25. Ball Guide		VZ18-0260	67. Switch Lever Shaft		VZ18-0580
26. Thrust		VZ18-0270	68. Switch Lever Spring		VZ18-0590
27. Gear Case		VZ18-0280	69. Name Plate A		VZ1812-0600B
28. Switch Protector		VZ18-0290	70. Name Plate B (Model No. Seal)		
29. Limit Switch (x2)		CL4-0230	for VZ-1812		VZ1812-0610B
30. Set Screw 3x6		SPW30X060	for VZ-3007		VZ3007-0610B
31. Ground Connector(included in No.74)			71. Body Case Set Screw 3x12 (x2)		STP30X120
32. Center Pin (push rod B) 2x67.1		VZ18-0690	72. Hanger		VZ18-0630
33. Lower Planet Cage for VZ-1812		VZ30-0360	73. End Ring		VZ18-0641B
34. Planet Gear 10.8/1 (x6) "		VZ30-0370	74. A.C. Cord (230V)		VZ18-0650B
35. Thrust Washer for VZ driver		CL4-0290			
36. Plate B "		VZ30-0390	* HIOS Shank possible to produce only Model VZ-1812		