

**PARTS LIST OF VB-1820PS /3012PS (230V)**  
(Push to Start Type)

ISSUED : February, 2007

REVISED : July.30,2009

| PARTS NAME                                                                    | PARTS NO.                | PARTS NAME                                   | PARTS NO.                        |
|-------------------------------------------------------------------------------|--------------------------|----------------------------------------------|----------------------------------|
| 1 Torque Adjusting Protect Cover<br>Front Ring Assy ( 2 , 3 )                 | VB18-0920<br>VB18-3010-1 | 44 Plate B                                   | VZ30-0390                        |
| 2 Rubber Ring                                                                 | _____                    | 45 Upper Planet Cage                         | VZ30-0400                        |
| 3 Front Ring                                                                  | _____                    | 46 Pinion Gear                               | VZ30-0410                        |
| 4 Collar Stopper for HIOS<br>for 1/4 HEX                                      | CL65-0110<br>VZ18X-0070  | 47 Grease Seal                               | ACL20-0351                       |
| 5 Collar Spring                                                               | BL65-0120                | 48 OV-Ring                                   | VZ18-0350                        |
| 6 Joint Shaft Collar for HIOS<br>for 1/4 HEX                                  | VZ18-0081<br>VB18X-0081  | 49 Joint Pin                                 | VZ18PS-0700                      |
| 7 Nut Stopper Ring                                                            | VZ18-0022                | 50 Center Pin 2X21.8                         | VZ18-0041                        |
| 8 Torque Adjusting Nut                                                        | VZ18-0030                | 51 Bearing (included with No.52)             | -----                            |
| 9 Knotting Roller for VB-1820<br>for VB-3012                                  | VZ18-0041<br>VZ30-0040   | 52 Fan Assy                                  | VB18-3381                        |
| 10 Torque Adjusting Bolt W/Bearing)                                           | VZ18-3050                | 53 Insulation Ring                           | VB18-0400                        |
| 11 Set Screw 3X25                                                             | SPP30X025                | 54 Motor                                     | VB18-0391B                       |
| 12 O-Ring 18dia                                                               | M3-0260                  | 55 Body Case A&B                             | VB18PS-0564                      |
| 13 Spling Stopper for HIOS<br>for 1/4 HEX                                     | ACL20-0130<br>VZ18X-0130 | 56 Pivot                                     | VZ18PS-0660                      |
| 14 Bearing 15X10X4 (X2) Included no.10                                        |                          | Circuit Assmby                               | VB18PS-3550B                     |
| 15 Steel Ball 2.5dia                                                          | BALL-025                 | 57 For/Rev Switch                            | VB18-0521                        |
| 16 Joint Shaft for HIOS<br>for 1/4 HEX                                        | VZ18-0120<br>VZ18X-0120  | 58 Limit Switch                              | CL4-0230                         |
| 17 Push Spring                                                                | VZ18-0651                | 59 Name Plate                                | VZ18-0601                        |
| 18 Spring Holder                                                              | VZ18-0150                | 60 Name Plate for VB-1820PS<br>for VB-3012PS | VB1820PS-0610B<br>VB3012PS-0610B |
| 19 Torque Adjusting Spring for VB-1820<br>Torque Adjusting Spring for VB-3012 | VZ18-0160<br>VZ30-0160   | 61 } Lever Shaft 2X18.8                      | VZ18-0580                        |
| 20 Thrust Washer Set Ring                                                     | VZ45-0170                | 62 } Push Lever                              | VB18PS-0572-AB                   |
| 21 Thrust Washer                                                              | VZ18-0180                | 63 }                                         |                                  |
| 22 Steel Ball 2.5dia                                                          | BALL-025                 | 64 Push Lever Spring                         | VB18PS-0681                      |
| 23 Clutch Panel Spring                                                        | VZ30-0220                | 65 Switch Hold Spring                        | VB18PS-0671                      |
| 24 Clutch Panel Cover                                                         | VZ18-0210                | 66 Set Screw 3x12                            | BOHD5F35120NITP                  |
| 25 Clutch Panel                                                               | VZ18-0220                | 67 PCB Assembly (Included in Circuit Assy)   | -----                            |
| 26 Cam                                                                        | VZ18-0241                | 68 Hanger                                    | CL65-0651                        |
| 27 Cam Roller 4.5X4.5                                                         | VZ40-0250                | 69 End Ring                                  | VB18-0642-1                      |
| 28 Steel Ball 4.5dia                                                          | BALL-045                 | 70 AC Cord W/Earth                           | VZ18-0651B                       |
| 29 Ball Guide                                                                 | VZ18-0262                |                                              |                                  |
| 30 Steel Ball 2.5dia                                                          | BALL-025                 |                                              |                                  |
| 31 Thrust                                                                     | VZ18-0270                |                                              |                                  |
| 32 Gear Case                                                                  | VZ18-0280                |                                              |                                  |
| 33 Set Screw 3x2.5                                                            | SPP30X025                |                                              |                                  |
| 34 Ground Connector                                                           | -----                    |                                              |                                  |
| 35 Switch Protector                                                           | VZ18-0290                |                                              |                                  |
| 36 Limit Switch                                                               | CL4-0230                 |                                              |                                  |
| 37 Center Pin                                                                 | VZ18PS-0690              |                                              |                                  |
| 38 Lower Planet Cage                                                          | VZ18-0310                |                                              |                                  |
| 39 Planet Gear                                                                | VZ18-0320                |                                              |                                  |
| 40 Spacer                                                                     | VZ18-0330                |                                              |                                  |
| 41 Pinion Gear                                                                | VZ18-0360                |                                              |                                  |
| 42 Lower Planet Cage                                                          | VZ30-0360                |                                              |                                  |
| 43 Thrust Washer                                                              | CL4-0290                 |                                              |                                  |