

# T ECHNICAL INFORMATION

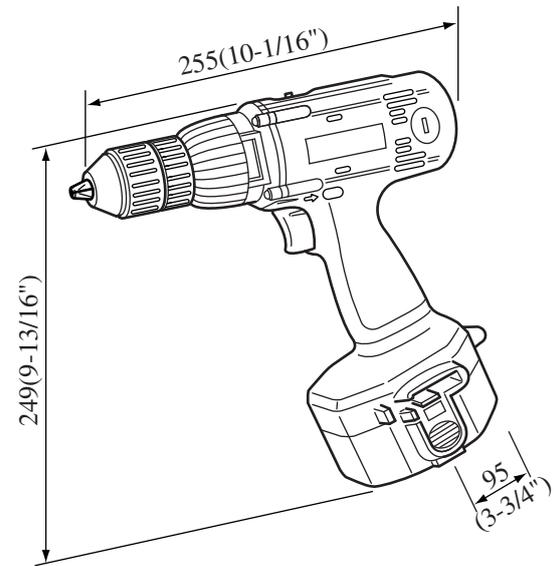


**Models No.** ▶ 6336D/6316D

**Description** ▶ Cordless Driver Drill

## CONCEPTION AND MAIN APPLICATIONS

Model 6336D is the 14.4V version of existing Model 6343D 18V Cordless Driver Drills with applying Aluminum gear housing.  
Model 6316D is the 12V version.



| Model    | Battery              | Charger |
|----------|----------------------|---------|
| 6336DWA  | Battery 1422         | DC1411  |
| 6336DWAE | Battery 1422 x 2 pcs |         |
| 6336DWB  | Battery 1433         |         |
| 6336DWBE | Battery 1433x 2 pcs  |         |
| Model    | Battery              | Charger |
| 6316DWA  | Battery 1222         | DC1411  |
| 6316DWAE | Battery 1222 x 2 pcs |         |
| 6316DWB  | Battery 1233         |         |
| 6316DWBE | Battery 1233x 2 pcs  |         |

### ► Specifications

|                                | 6336DWBE  | 6316DWA                       |
|--------------------------------|---|-------------------------------|
| <b>Motor</b>                   | Direct current magnet motor                           |                               |
| <b>Battery</b>                 | Battery 1422 NiCad 14.4V, 2.0Ah                       | Battery 1222 NiCad 12V, 2.0Ah |
|                                | Battery 1433 NiMH 14.4V, 2.2Ah                        | Battery 1233 NiMH 12V, 2.2Ah  |
| <b>Speed at no load</b>        | High speed 0~1300 R/min                               |                               |
|                                | Low speed 0~400 R/min                                 |                               |
| <b>Chuck capacity</b>          | 1.5(1/16") - 13(1/2")                                 |                               |
| <b>Drilling capacity</b>       | Iron works 13mm(1/2")                                 |                               |
|                                | Wood works 36mm(1-7/16")                              | Wood works 30mm(1-3/16")      |
| <b>Torque adjusting</b>        | 16 levels + Direct connection                         |                               |
| <b>Max. tighten torque</b>     | 48 N.m(390 kgf-cm,28ft•lbs)                           | 32 N.m(330 kgf-cm,24ft•lbs)   |
| <b>Clutch operative torque</b> | 1 N.m(10kgf-cm,0.7ft•lbs) - 6 N.m(60kgf-cm,4.3ft•lbs) |                               |

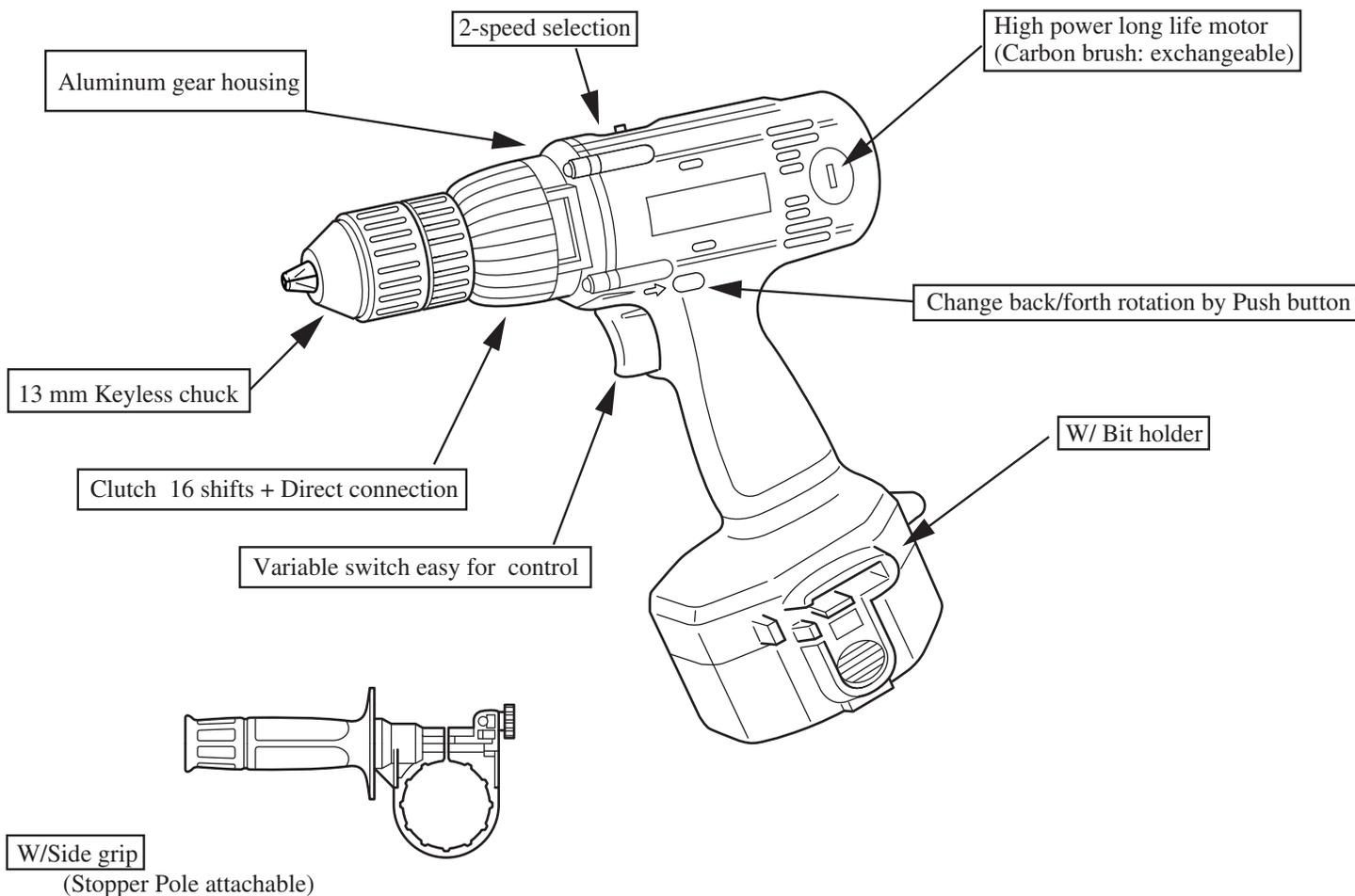
### ► Standard equipment

Battery cover ----- 1pc (DWAE/DWBE: 2pcs)  
+ - Bit 2-45 ----- 2pcs  
Set Plate

### ► Optional accessories

Drill 1.5,2,3,4,5,6  
Drill Bit for wood 9,12,15  
+ Bit 1-65,2-45,2-65,2-110,2-150,2-250,3-45,3-65,3-110  
- Bit 5-45,5-82,6-70,6.35-45,8-45,8-70  
Socket bit 7-55,8-55,10-55  
Buff 125  
Rubber pad assembly  
Wool bonnet100  
Grip Assemble, Stopper pole assemble  
Charger DC1411,DC1801  
Battery (NiCad 1422)  
Battery (NiMH 1433)

The standard equipment for the tools shown may differ from country to country



## ▶ Comparison

| Model Name            |            | Makita                        |                               |                               |                               |
|-----------------------|------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|                       |            | 6336D                         | 6333D                         | 6316D                         | 6313D                         |
| Rotation(rpm)         | Low speed  | 0~ 400                        | 0~ 400                        | 0~ 400                        | 0~ 450                        |
|                       | High speed | 0~1,300                       | 0~1,300                       | 0~1,300                       | 0~1,400                       |
| Max.tightening torque |            | 38(450kgf•cm)                 | 31(450kgf•cm)                 | 32(450kgf•cm)                 | 26(230kgf•cm)                 |
| Torque adjusting      |            | 16 levels + Direct connection | 17 levels + Direct connection | 16 levels + Direct connection | 17 levels + Direct connection |
| Aluminum gear housing |            | ○                             | ×                             | ○                             | ×                             |
| Side grip             |            | ○                             | ×                             | ○                             | ×                             |
| Carbon exchange       |            | ○                             | ○                             | ○                             | ○                             |
| Weight (kgs)          |            | 2.3[5.1 lbs]                  | 2.1[4.6 lbs]                  | 2.2[4.9 lbs]                  | 2.0[4.3 lbs]                  |

Comparison

Working capacity per charging

\* Data: In setting 6333D as 100

100

7/8" Spade bit drilling (high speed) Spruce t=38mm

|       |   |     |
|-------|---|-----|
| 6336D |  | 100 |
| 6333D |  | 100 |

Rag bolt 1/4"x3" tightening (low speed) Spruce

|       |   |     |
|-------|---|-----|
| 6336D |  | 105 |
| 6333D |  | 100 |

Working speed

100

← Slow Fast →

|  |     |
|--|-----|
|  | 100 |
|  | 100 |

|  |     |
|--|-----|
|  | 100 |
|  | 100 |

\* Data: In setting 6313D as 100

7/8" Spade bit drilling (high speed) Spruce t=38mm

|   |             |
|---|-------------|
|  | 100(63 pcs) |
|  | 100         |

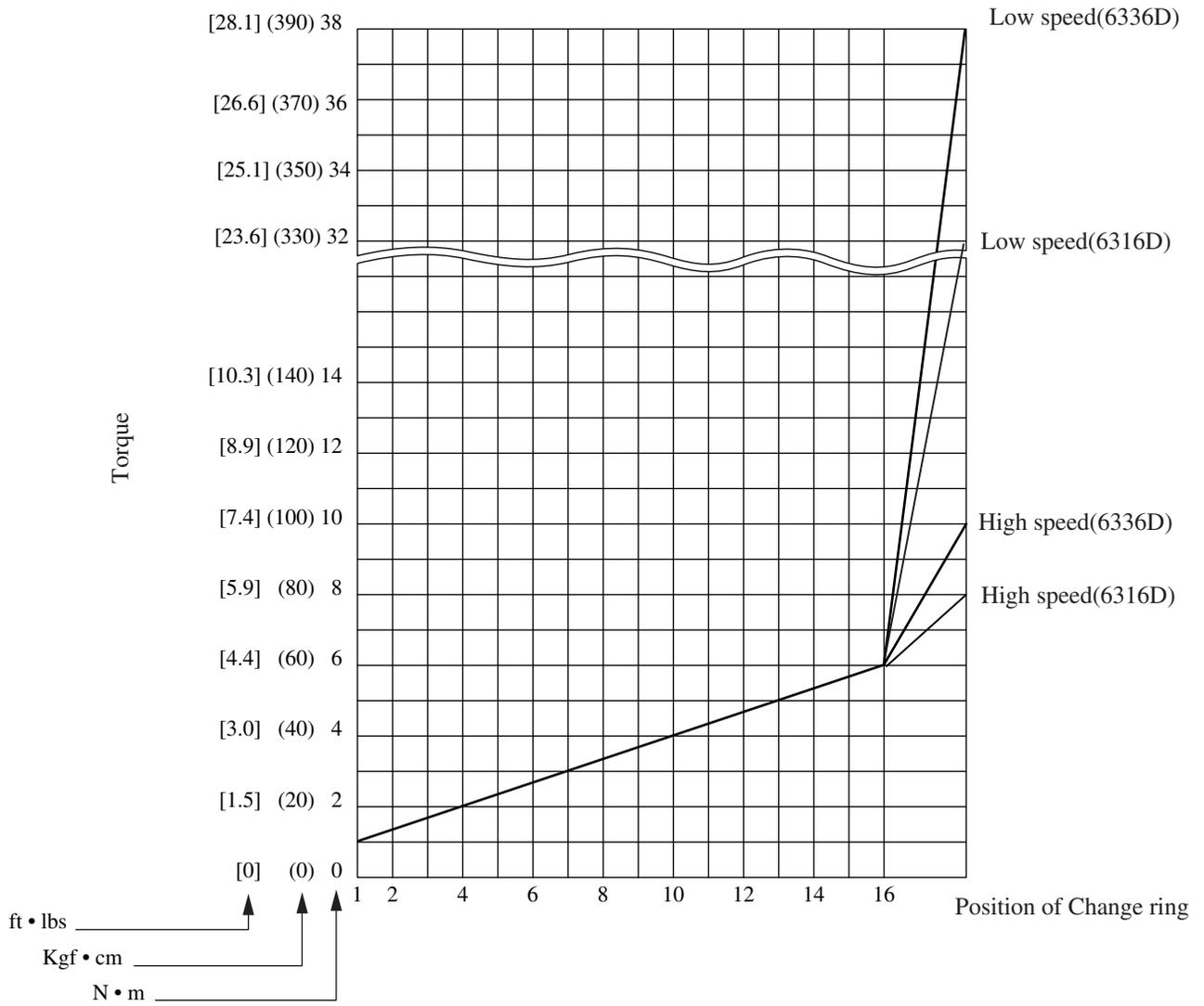
|  |               |
|--|---------------|
|  | 100(3.6 sec.) |
|  | 100           |

Rag bolt 1/4"x3" tightening (high speed)

|   |             |
|---|-------------|
|  | 100(49 pcs) |
|  | 100         |

|  |               |
|--|---------------|
|  | 100(4.9 sec.) |
|  | 85            |

Adjust position of Torque change ring and reference value of tightening torque ( Clutch operative torque )



| Machine screw criteria |                          | M4 | M5  | M6  |
|------------------------|--------------------------|----|---|---|
| Wood screw criteria    | Soft wood ( pines, etc.) |    | <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Ø3.5x22</div> <div style="margin-left: 20px;">←</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Ø4.1x38</div> </div>   | <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Ø5.1x50</div> </div> |
|                        | Hard wood (lauan, etc.)  |    | <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Ø3.5x22</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Ø4.1x38</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Ø5.1x50</div> <div style="margin-left: 20px;">→</div> </div> |   |

RE: Selection of clutch

With 16-shift clutch, you can set a proper tightening torque in Machine screws , M4~M6, and make put the faces together more exactly even if the thickness, length , harness of wood are different in tightening Wood screws.

## ► Repair

### (1) Notes in Disassembly

- When exchanging Gear assembly, remove Drill chuck in advance.  
(If you only dismantle Housing, removal of Chuck is unnecessary.)
- When detaching Chuck, hold two-face width of Spindle.
- In disassembly, be careful not to lose Compression spring 4 in Speed change lever, because it easily goes away.

### (2) Note in Assembly

#### 1 Assembly of Motor and Gear assembly

- \* Since Motor bracket is equipped in Gear assembly for repair, detach Motor bracket from Gear assembly. Be careful that the content may not go out from Gear assembly at that time.

1) Screw Motor bracket to Motor.

2) Attach the above 1) Motor with Bracket to Gear assembly.

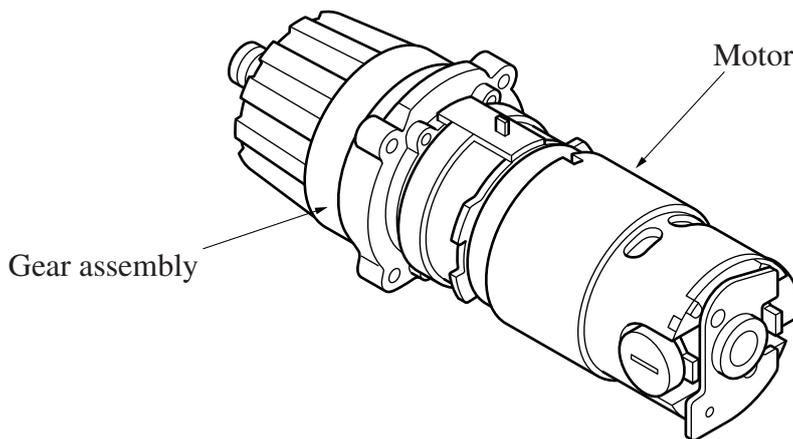


Figure 2

### 2 Installing of Speed change lever

- 1) Place two Compression spring 4s into Speed change lever.
- 2) Being careful that Compression spring 4 may not come out, install Speed change lever assembly in the projection of Change lever as shown in Figure 3.

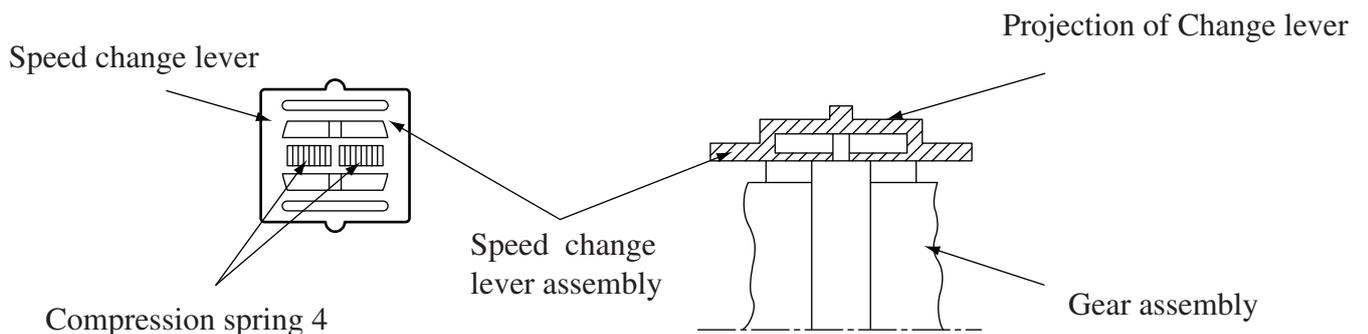


Figure 3

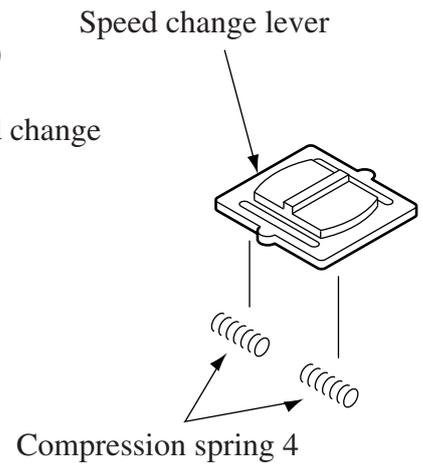


Figure 1

### 3 Attaching to Housing

- 1) When attaching a unit of Gear assembly and Motor, etc. to Housing L, place Speed change lever in the position as shown in Figure 4.

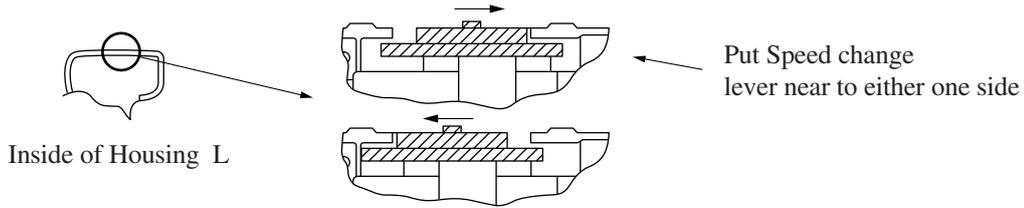
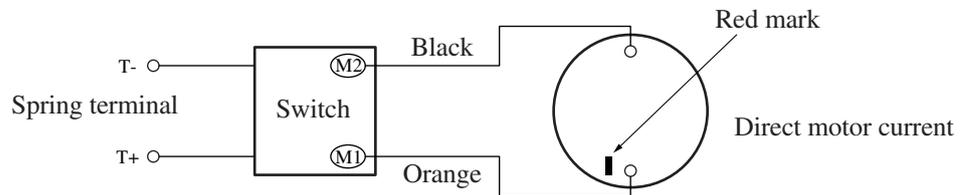


Figure 4

### 4 Assembly of chuck

- 1) In assembly of Chuck, hold the two-face width and tighten by 50~60 N.m (500~600kgf.cm).
  - If tightened by the torque less than the above, Chuck may loosen in reverse rotation, which will break Screw for Chuck and Chuck may comes off.
  - Do not tighten Chuck by low speed lock torque, because you may be swung around and dangerously.
- 2) Used screw for fixing Chuck is left-handed.

## ► Wiring diagram



## ► Details of wiring

Inside of Housing L

