

TECHNICAL INFORMATION

Models No. ▶ 6916D

Description ▶ Cordless impact driver

CONCEPTION AND MAIN APPLICATIONS

The above model is Cordless Impact Drivers designed for much reduced weight and more compact body, and this model features the lightest weight and the shortest overall length in this class.

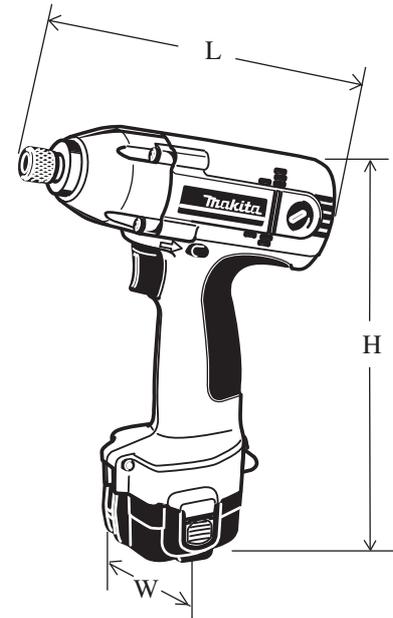
Model 6916D is powered by 12V battery, and features powerful max. torque at 100N.m.

● Variations of Model 6916D are as follows.

Model No.	Battery	Charger	Plastic Carrying Case
6916DWA	1222 /1 pc. Ni-Cd, 2.0Ah	DC1411	Yes
6916DWAE	1222 /2 pcs. Ni-Cd, 2.0Ah	DC1411	Yes
6916DWD	1234 /1 pc. Ni-MH, 2.6Ah	DC1411	Yes
6916DWDE	1234 /2 pcs. Ni-MH, 2.6Ah	DC1411	Yes
6916DWF	1235 /1 pc. Ni-MH, 3.0Ah	DC1411	Yes
6916DWFE	1235 /2 pcs. Ni-MH, 3.0Ah	DC1411	Yes

Ni-Cd; Nickel Cadmium battery

Ni-MH; Nickel-Metal Hydride battery



Dimensions : mm (")	
Width (W)	94 (3-11/16)
Height (H)	231(9-1/8)
Length (L)	168 (6-5/8)

► Specification

Voltage (V)	D/C 12 V	
No load speed (min-1=rpm)	0 - 2,300	
Impact per minute (min-1=bpm)	0 - 3,000	
Capacities	Hex. shank : mm (")	6.35 (1/4)
	Machine screw	M4 - M8 (5/32" - 5/16")
	Standard bolt	M5 - M12 (3/16" - 15/32")
	High Tensile bolt	M5 - M10 (3/16" - 3/8")
	Self drilling screw	ø4 - ø6 x 13 - 45mm (5/32" - 1/4" x 1/2" - 1-3/4")
Max. fastening torque	100N.m (1,020kgf.cm, 880 in.lbs)	
Overall length: mm (")	168 (6-5/8)	
Net weight: kg (lbs)	1.5 (3.3 lbs)	

► Standard equipment

- * Phillips bit 2-65 1 pc.
- * Battery cover 1 pc. (for 6916DWA, 6916DWD, 6916DWF)
- * Battery cover 2 pcs.(for 6916DWAE, 6916DWDE, 6916DWFE)

< Note > The standard equipment for the tool shown may differ from country to country.

► Optional accessories

- | | | |
|---|-----------------|-----------------------------|
| * Various phillips bits | * Battery 1200 | * Fast charger DC1439 |
| * Various slotted bits | * Battery 1202 | * Charger DC1411 |
| * Various socket bits | * Battery 1202A | * Charger DC1801 |
| * Various drill chucks | * Battery 1220 | * Automotive charger DC1422 |
| * Shoulder strap | * Battery 1222 | |
| * Bit-piece | * Battery 1233 | |
| * Set plate for battery of w/o push button type | * Battery 1235 | |

The Lightest Weight in this class

6916D 1.5kg (3.3lbs)

The Shortest Overall Length

6916D 168mm (6-5/8")

Powerful, Max. Torque

6916D 100N.m (880 in.lbs)

Brand-new "type D28" Motor

Lighter and smaller than existing "type D31".
With highly efficient cooling system and externally accessible brushes.

Magnesium Alloy Hammer Case

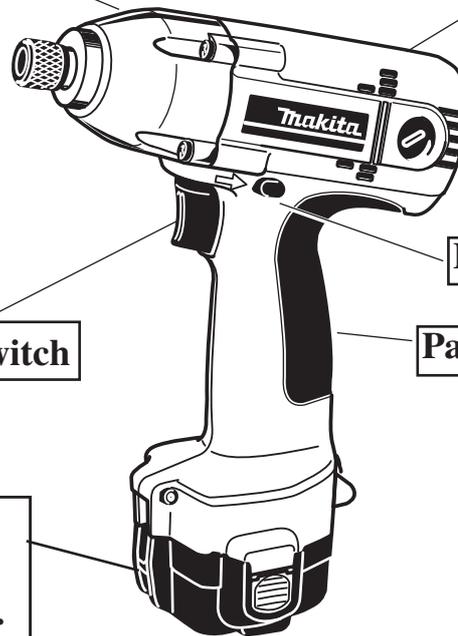
Variable Speed Control Switch

Push Button for Reversing

Palm-fit, Soft Grip

Set plate can be attached to this machine for the battery without push button.

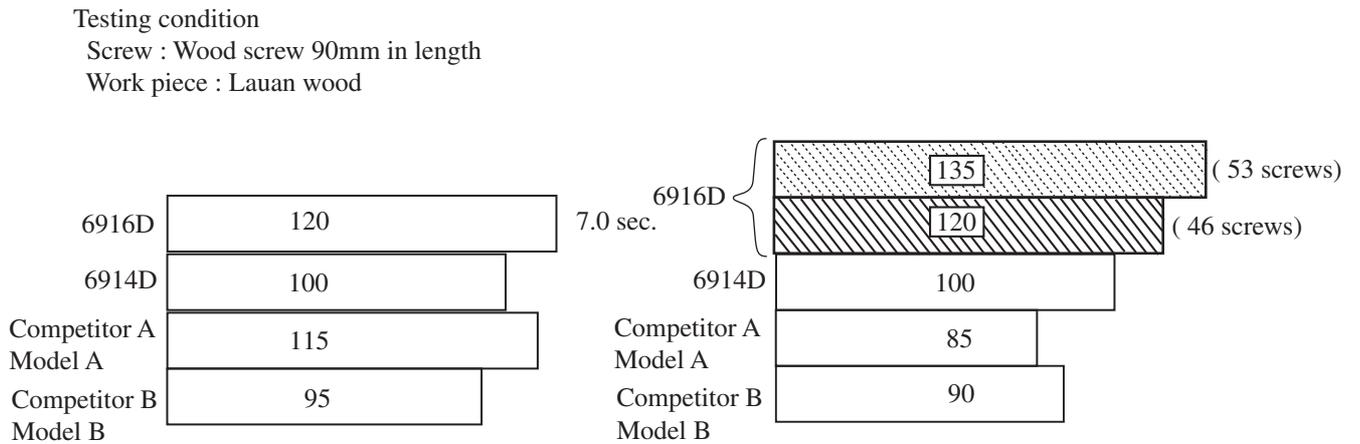
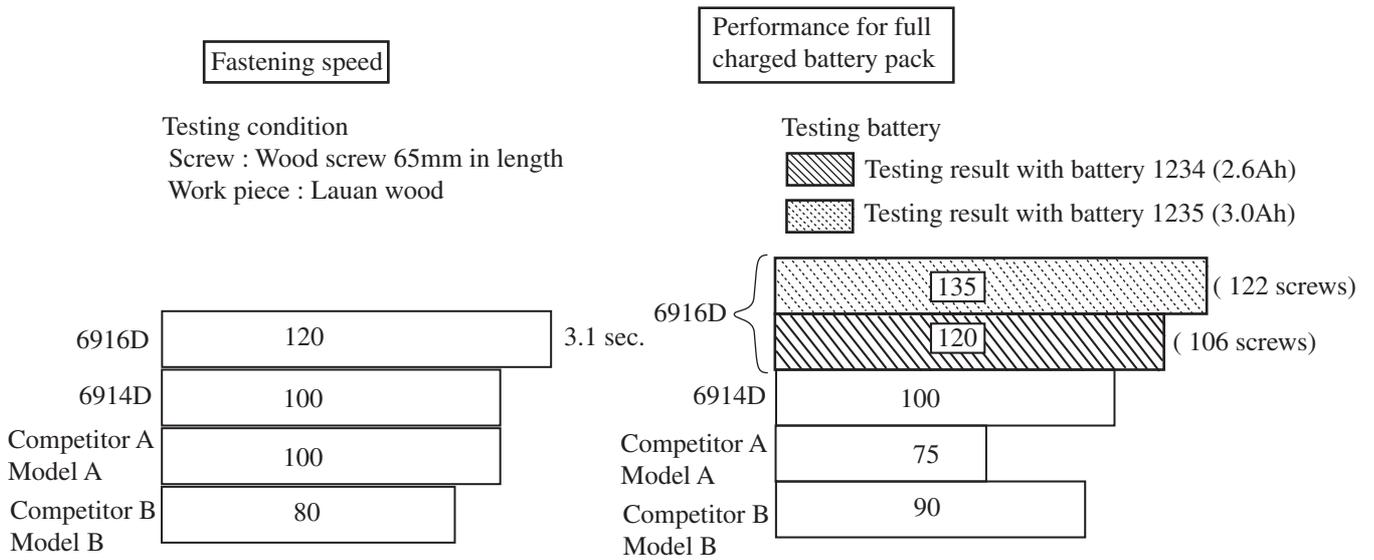
Shoulder Strap Available(Optional)



► Comparison of Specifications

Model No. Specifications	MAKITA		Competitor A	Competitor B
	6916D	6914D	Model A	Model B
No load speed : (min - max rpm)	0 - 2,300	0 - 2,200	0 - 2,200	0 - 2,200
Blows per min. : (min - max bpm)	0 - 3,000	0 - 3,000	0 - 2,900	0 - 3,000
Equipped motor	D28 -16	-23	—	—
Max fastening torque : N.m	100	100	90	100
Externally accessible brush	Yes	Yes	No	Yes
Overall length : mm	168	176	169	176
Net weight : Kg (lbs)	1.5 (including any of battery 1222, 1234 or 1235)	1.7	1.65	1.7
Standard equipment	Phillips bit	Phillips bit Set plate	Phillips bit	Phillips bit

Numbers in chart below are relative values when setting 6914D 's capacity as 100.



< Note > The above figures may differ from condition to condition.

- < 1 > Removing housing R and L
 Remove hammer case from housing R and L.
 And then, housing R and L can be removed.

- < 2 > Removing sleeve section
 (1) Take off ring spring from the groove on anvil.
 (2) Flat washer, compression spring, sleeve and 2 pcs. of steel ball 3.5 can be removed from anvil.
 (3) Anvil can be removed from hammer case.

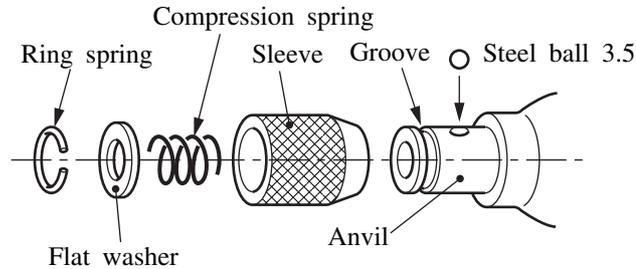


Fig. 1

- (4) When assembling anvil to hammer case, put MAKITA grease N No.2 by approx.0.5g to the cylindric part of anvil.

- < 3 > Removing hammer
 (1) Press down hammer with 1R045: Large gear extractor by turning the handle.

- (2) Adjust the opening for steel ball inserting to the cam groove top of spindle.

- (3) Take off steel ball 5.6 from spindle.

< Note > 25 steel ball 3.5s are installed in hammer.
 Check the quantity when assembling.

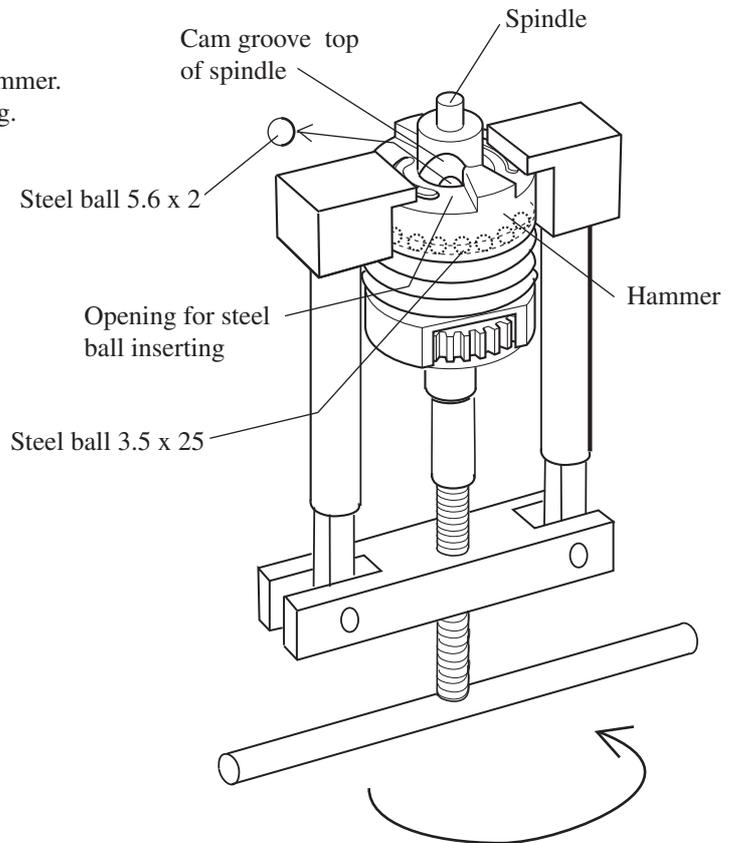
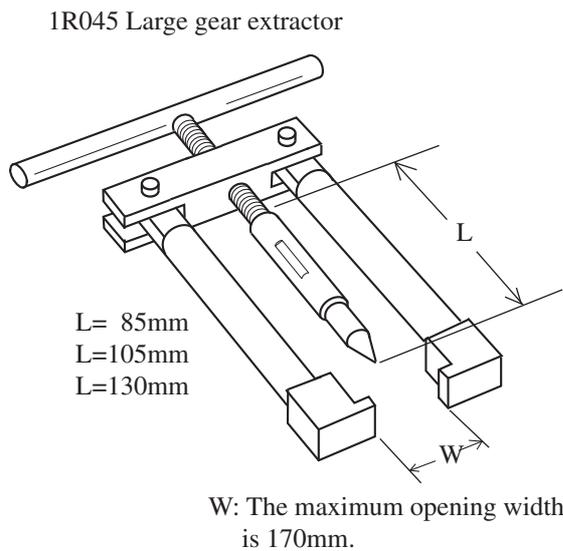


Fig. 2

► Repair

- (4) Apply MAKITA grease N No.2 to the position No. 1, 2, 3 and 4, when assembling.

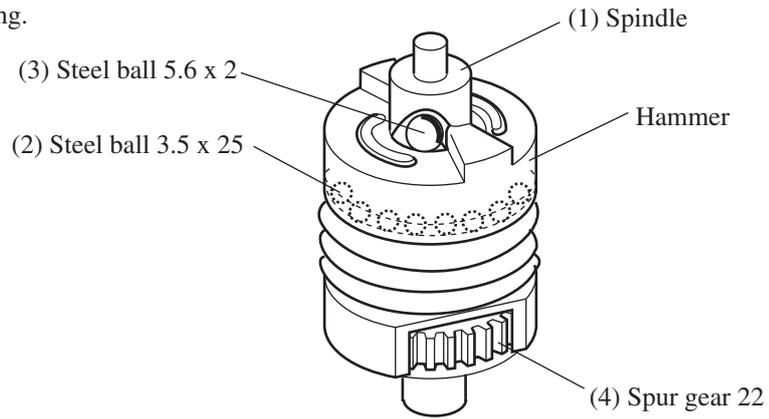
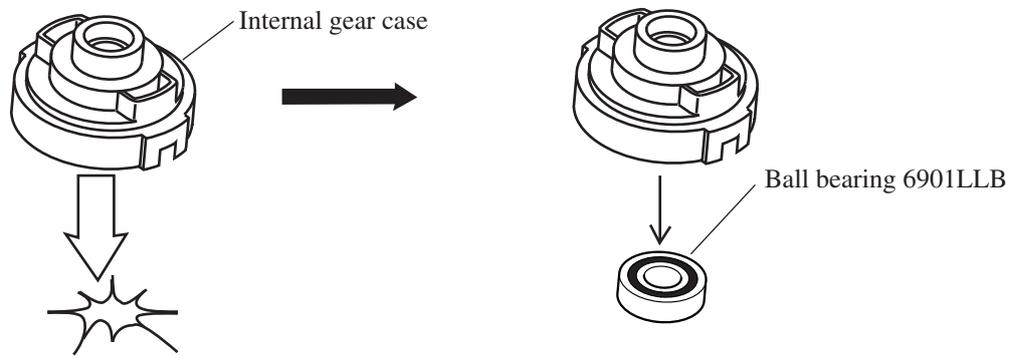


Fig. 3

< 4 > Removing ball bearing 6901LLB

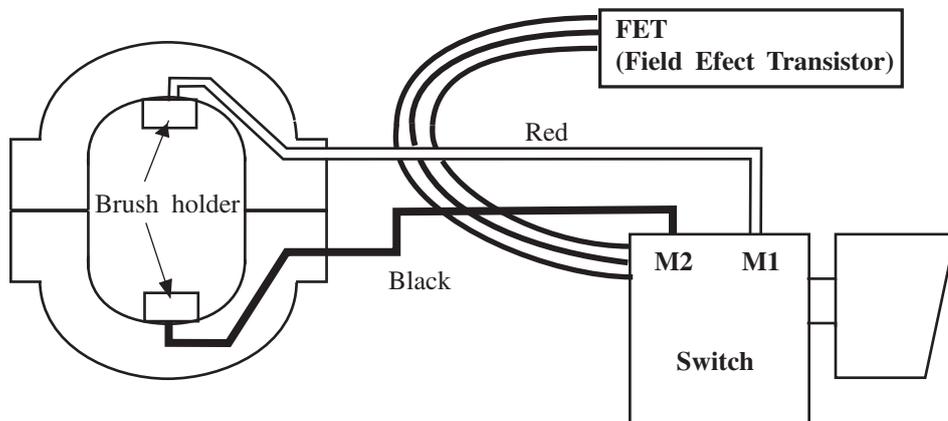


Give a shock by knocking internal gear case on the table.

Ball bearing 6901LLB can be removed from internal gear case by the shock.

Fig. 4

► Circuit diagram



▶ Wiring diagram

Pass the lead wires as illustrated in Fig.5.

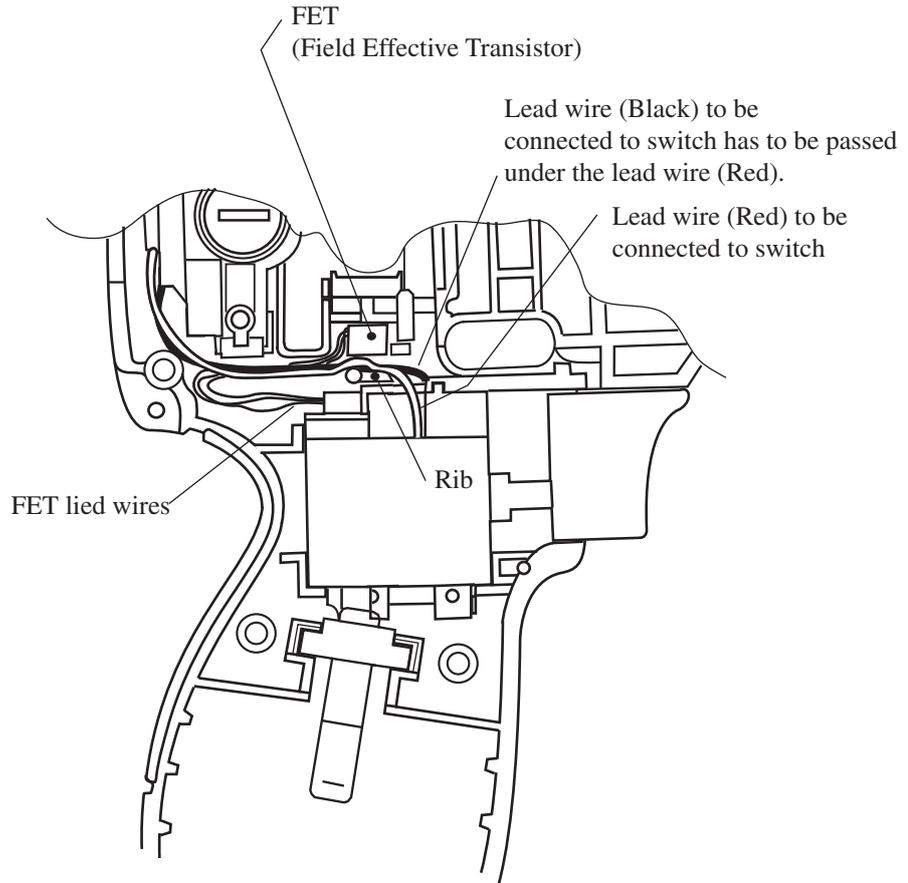


Fig.5