

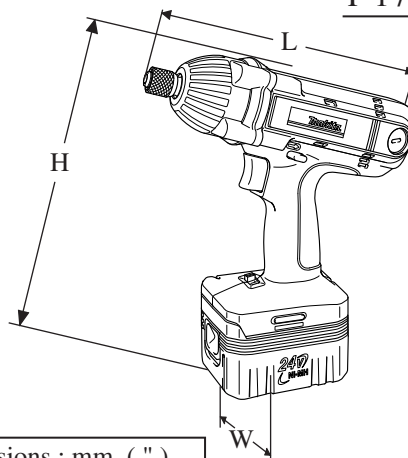
Models No. ▶ BTD200

Description ▶ Cordless Impact Driver

CONCEPTION AND MAIN APPLICATIONS

BTD200 is equipped with newly developed 24 V Ni-MH battery.
The method of speed change is electric 2 speed + variable speed change.
The max. fastening torque of 200 N.m (2,040Kgf.cm / 1,770in.lbs)
is suitable especially for tightening the wood screws of long size.
The variation of this model is as listed blow.

Model No.	Battery				Charger
	No.	Type	Ah	Q'ty	
BTD200SH	B2417	Ni-MH	1.7	1 pc.	DC24SA
BTD200SF	B2430		3.0	1 pc.	



Dimensions : mm (")	
Width (W)	86 (3-3/8)
Height (H)	277 (10-7/8)
Length (L)	232 (9-1/8)

► Specification

Voltage (V)		D/C 24 V
No load speed (min-1=rpm)	High speed	0 - 2,000
	Low speed	0 - 1,600
Impact per minute (min-1=bpm)	High speed	0 - 3,000
	Low speed	0 - 2,500
Driving shank : mm (")		6.35 (1/4) Hex
Capacities	Wood screws	6 mm (1/4)
	Self tapping screws	
	Hex screws	
Charging time with DC24SA	Model BTD200SH	** approx. 30 minutes
	Model BTD200SF	** approx. 60 minutes
Net weight: kg (lbs)		* 2.9 (6.3 lbs)

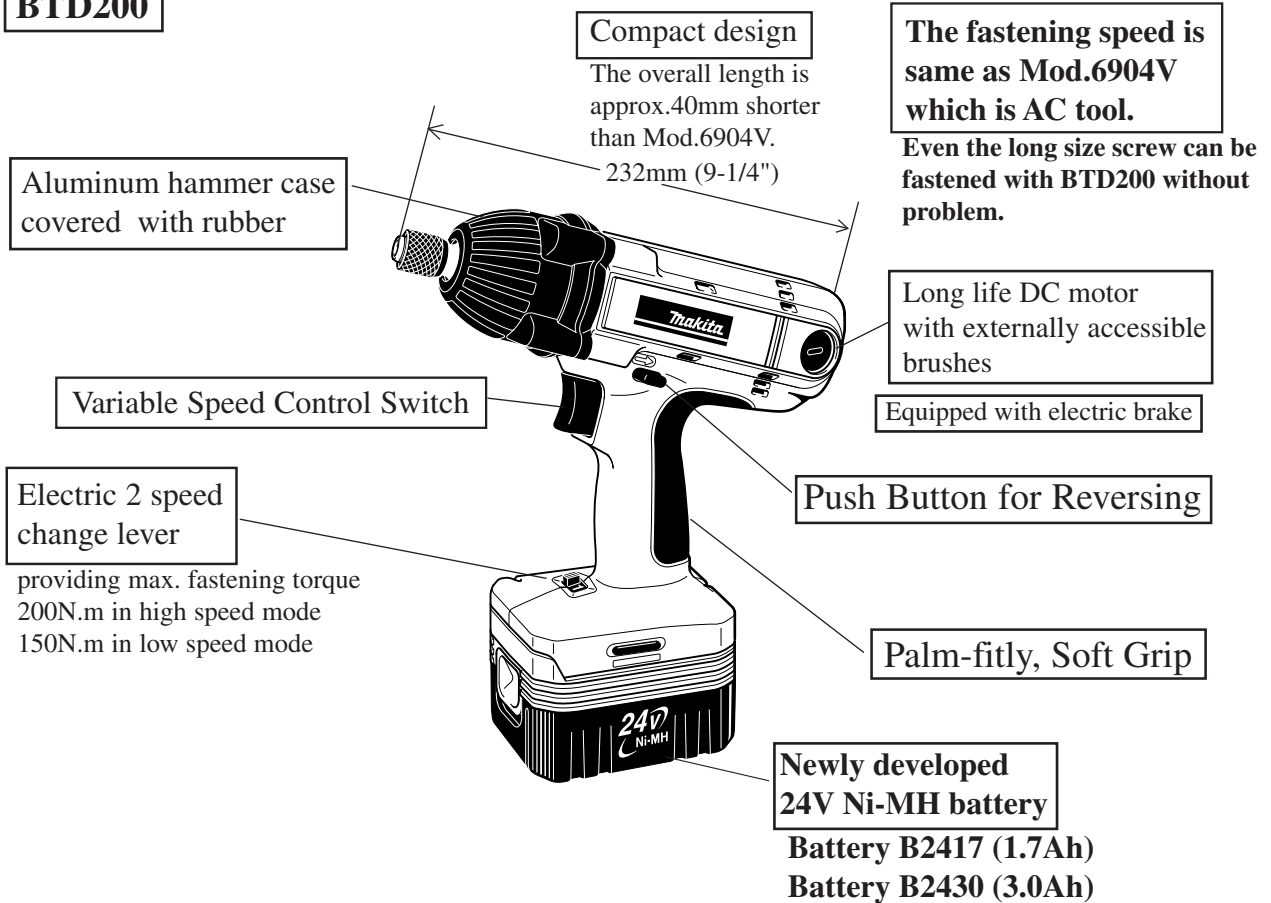
** approx. 30 minutes / ** approx. 60 minutes : The figures left mentioned may be change depending on the conditions of battery, room temperature, charger, etc.

* 2.9 (6.3 lbs) : including the weight of battery 2417 / 1.7Ah.

► Optional accessories

- * Philips bits 2-34, 2-65, 2-82, 2-110, 2-150, 2-250, 3-45, 3-65, 3-110
- * Socket bit 8-55, 3/8"-55,
- * Bit piece
- * Shoulder strap
- * Battery B2417, B2430
- * Charger DC24SA

BTD200

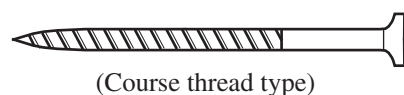


► Comparison of products

Manufacturer		MAKITA		Competitor A
Specification	Model No.	BTD200	6904V	A
Voltage (V)		DC 24	AC 100	AC 100
No load speed (min.=rpm)	Low speed	0 - 1,600	0 - 2,100	0 - 1,900
	High speed	0 - 2,000	0 - 2,400	0 - 2,400
Impact per minute (min.=bpm)	Low speed	0 - 2,500	0 - 2,500	0 - 2,300
	High speed	0 - 3,000	0 - 3,000	0 - 3,000
Equipped motor		D35 - 30	N55 - 35	—
Over all length : mm (")		232 (9-1/8)	270 (10-5/8)	262 (10-5/16)
Net weight :Kg (lbs)		* 2.9 (6.3)	1.8 (4.0)	2.1 (4.6)

* 2.9 (6.3) : including battery B2417

- (1) Fastening torque is same to Mod.6904VH.
 (1) Fastening speed is same to Mod.6904V.
 (2) The capacity of testing battery is 1.7Ah



Length of screw (Course thread type)	Work piece	Fastening speed	Working amount per charge with battery B2417
90 mm (3-35/64")	Lauan	3.6 sec.	80 screws
125 mm (4-59/64")		8.0 sec.	30 screws

< Note > The above figures may be change depending on the conditions of battery, work piece or room temperature. etc.

<1> Disassembling housing R and L

Take off bumper from housing with hand.
Dismount hammer case from housing by taking off 4 hex socket head bolts M5x35, and disassemble housing R and L as illustrated in Fig. 1.

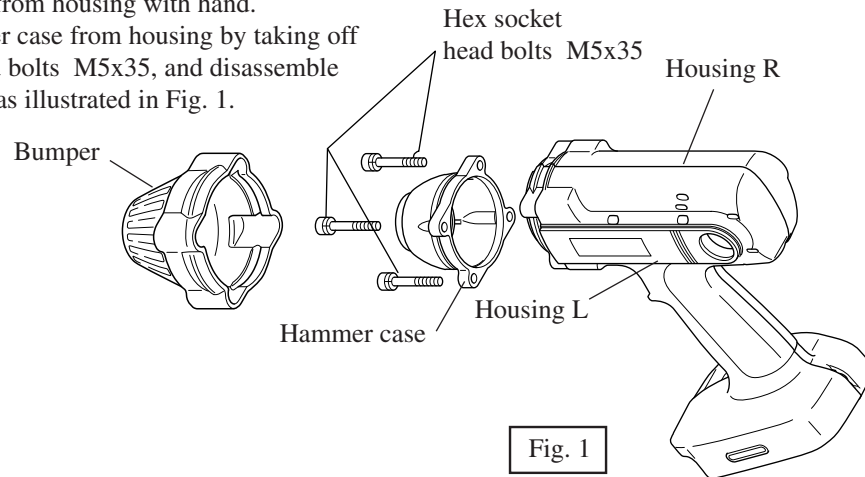


Fig. 1

<2> Disassembling bit holder section

Take off ring spring 12 from the groove on anvil.
Then flat washer 4, compression spring 14 and sleeve can be removed from anvil by pulling them in the direction of the arrow in Fig.2.
Anvil can be separated from hammer case after disassembling sleeve section.

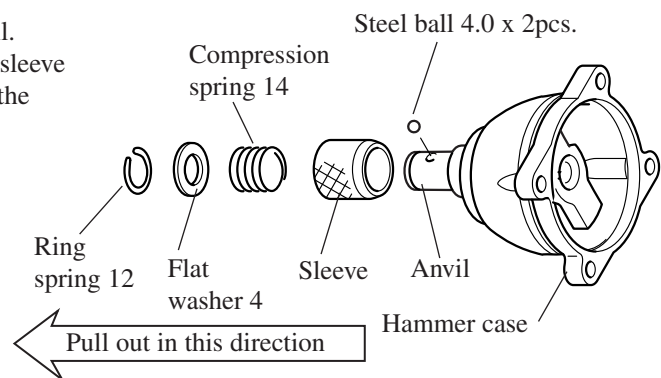
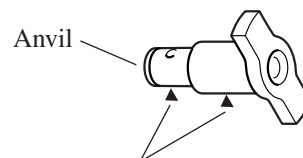


Fig. 2

<3> Apply 0.5g of MAKITA grease N No.2 on the cylindric part of anvil, when inserting it into hammer case.



Apply MAKITA grease N No.2

Fig. 3

<4> Disassembling hammer section

(1) Grip the hammer section with large gear extractor No.1R045 as illustrated in Fig. 4.
Press spindle to hammer by turning the handle clock-wise until it stops.

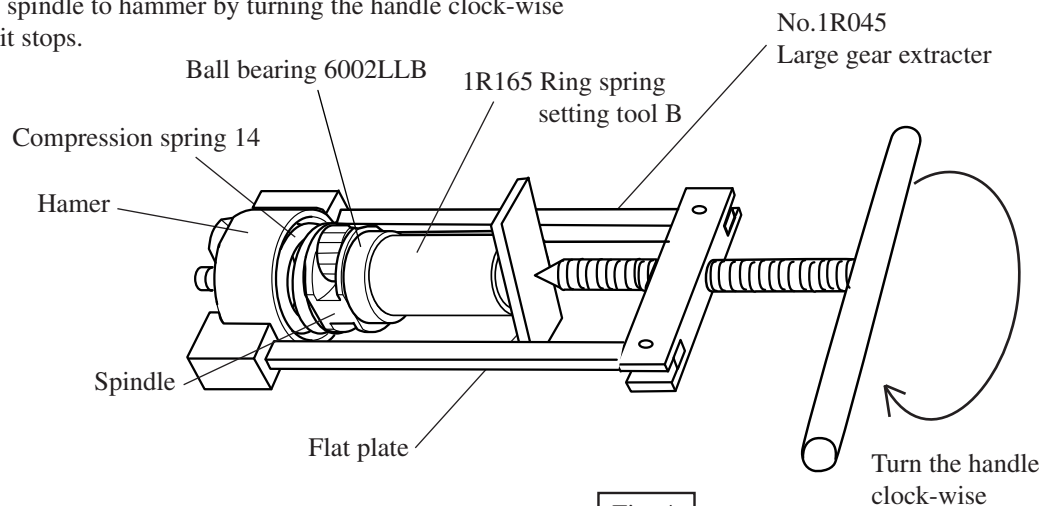
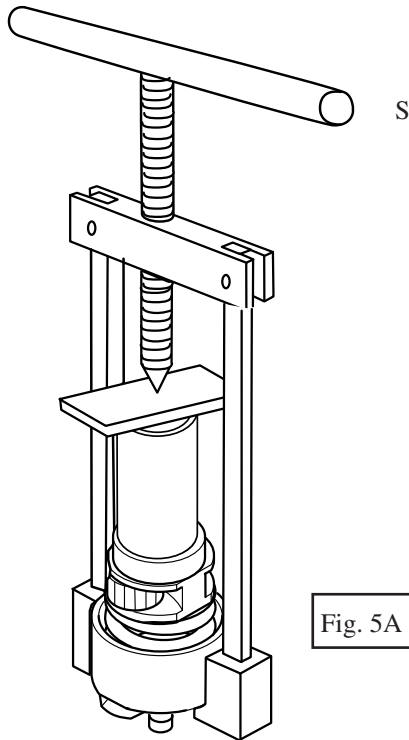
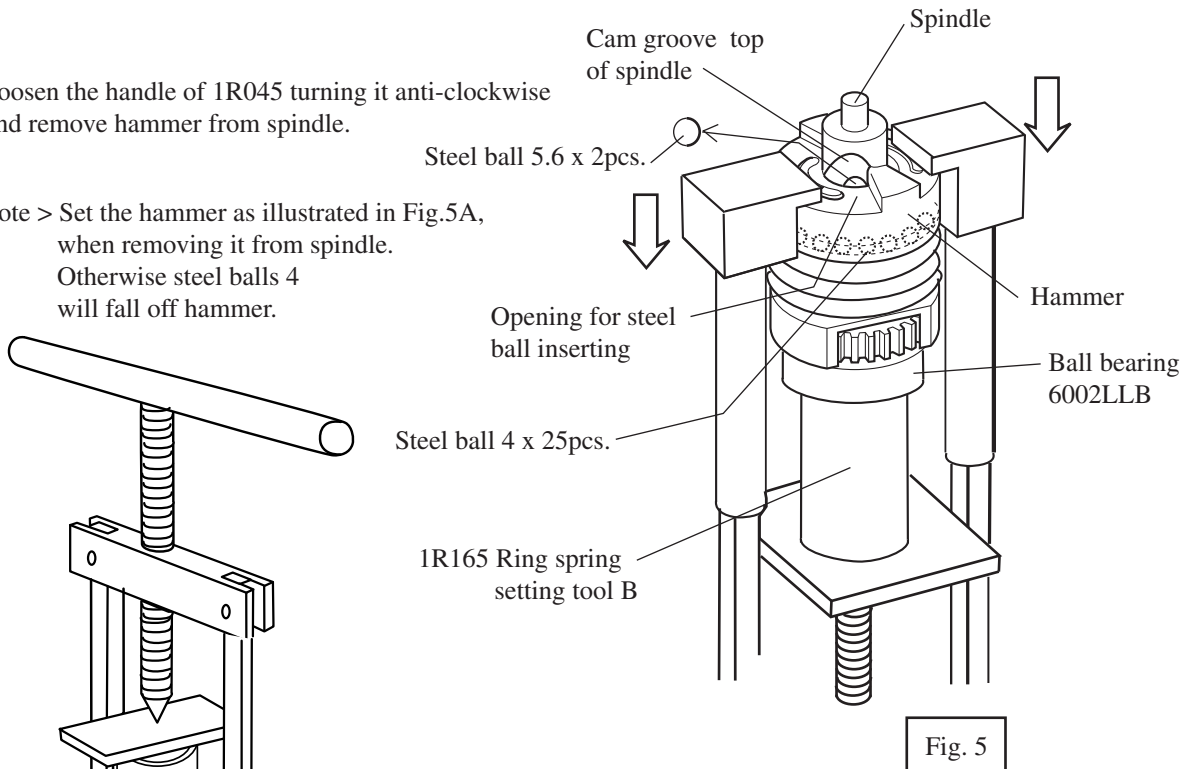


Fig. 4

- (2) Adjust the opening for steel ball inserting, to the cam groove top of spindle as illustrated in Fig. 5.
- (3) Take off 2 steel balls 5.6 with magnetic bar or tweezers from spindle.

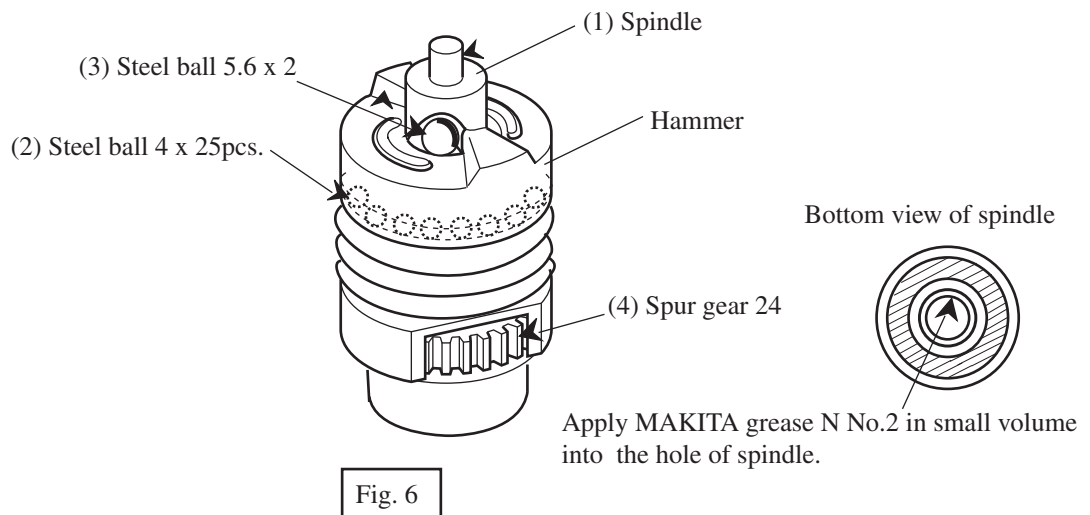
- (4) Loosen the handle of 1R045 turning it anti-clockwise and remove hammer from spindle.

< Note > Set the hammer as illustrated in Fig.5A, when removing it from spindle. Otherwise steel balls 4 will fall off hammer.

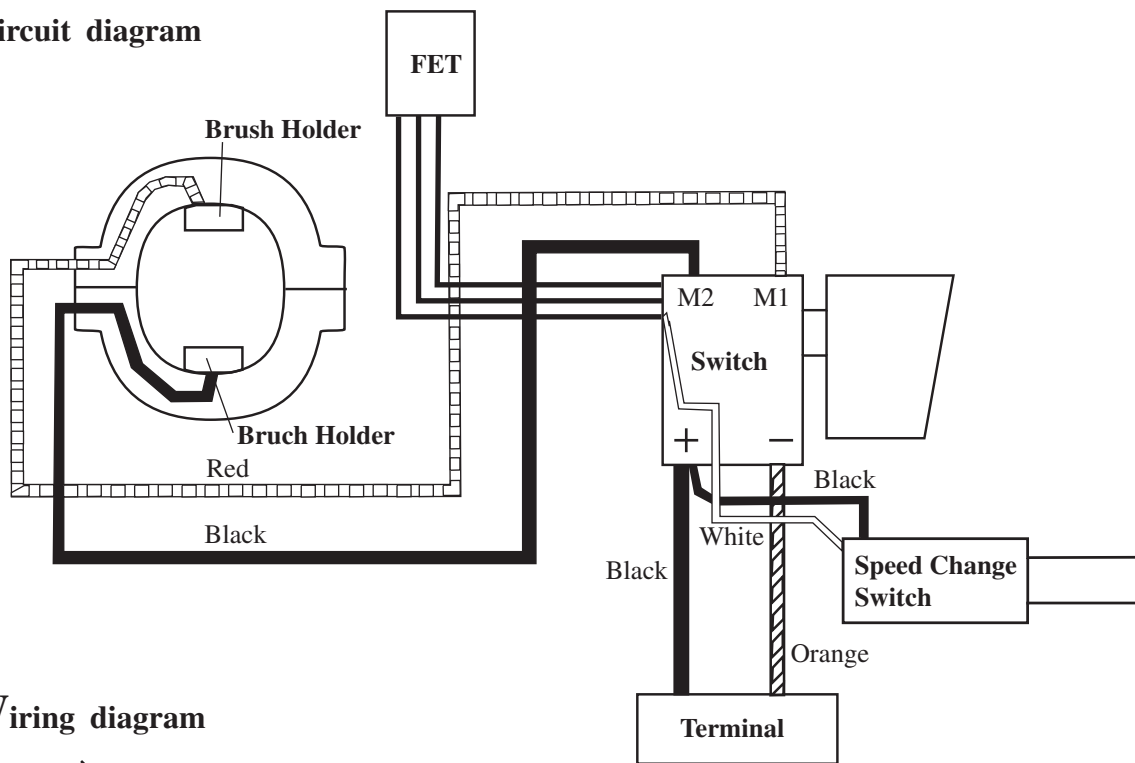


- (5) When assembling, adjust the "opening for steel ball inserting", to the "cam groove top" of spindle and insert steel ball 4 into hammer as illustrated in Fig. 5.

- (6) Apply MAKITA grease N No.2 in small volume to the position marked with black triangle mark. See Fig. 6.



► Circuit diagram



► Wiring diagram

