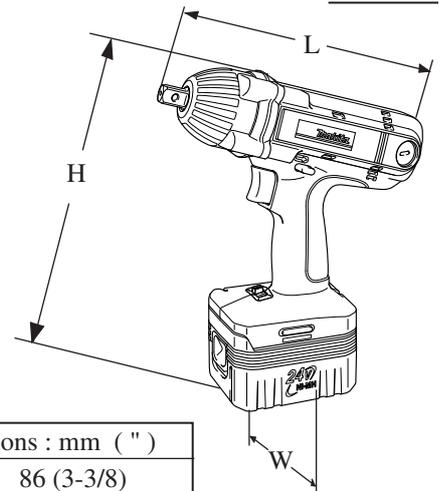


Models No. ▶ BTW200

Description ▶ Cordless Impact wrench

CONCEPTION AND MAIN APPLICATIONS

BTW200 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 amounts to 200 N.m (2,040Kgf.cm / 1,770in.lbs), which corresponds to Mod.6904VH, AC type impact wrench.
 The variation of this model is as listed blow.



Model No.	Battery				Charger
	No.	Type	Ah	Q'ty	
BTW200SH	B2417	Ni-MH	1.7	1 pc.	DC24SA
BTW200SF	B2430		3.0	1 pc.	

Dimensions : mm (")	
Width (W)	86 (3-3/8)
Height (H)	277 (10-7/8)
Length (L)	226 (8-7/8)

► Specification

Voltage (V)		D/C 24 V
No load speed (min.=rpm)	High speed	0 - 2,000
	Low speed	0 - 1,600
Impact per minute (min.=bpm)	High speed	0 - 3,000
	Low speed	0 - 2,500
Square drive : mm (")		12.7 (1/2)
Capacities	Standard bolt	M10 - M16 (3/8 - 5/8")
	High Tensile bolt	M10 - M12 (3/8 - 1/2")
Max. fastening torque	High speed	200 N.m (2,040Kgf.cm, 1,770in.lbs)
	Low speed	150 N.m (1,530Kgf.cm, 1,320in.lbs)
Charging time with DC24SA	Model BTW200SH	** approx. 30 minutes
	Model BTW200SF	** approx. 60 minutes
Net weight: kg (lbs)		* 2.8 (6.1 lbs)

* 2.8 (6.1 lbs) : including the weight of battery 2417 / 1.7Ah.

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

► Standard equipment

- * Socket 19 - 52 1 pc.
- * Pin 4 1 pc.
- * O ring 24 1 pc. (not included in the product for North America)

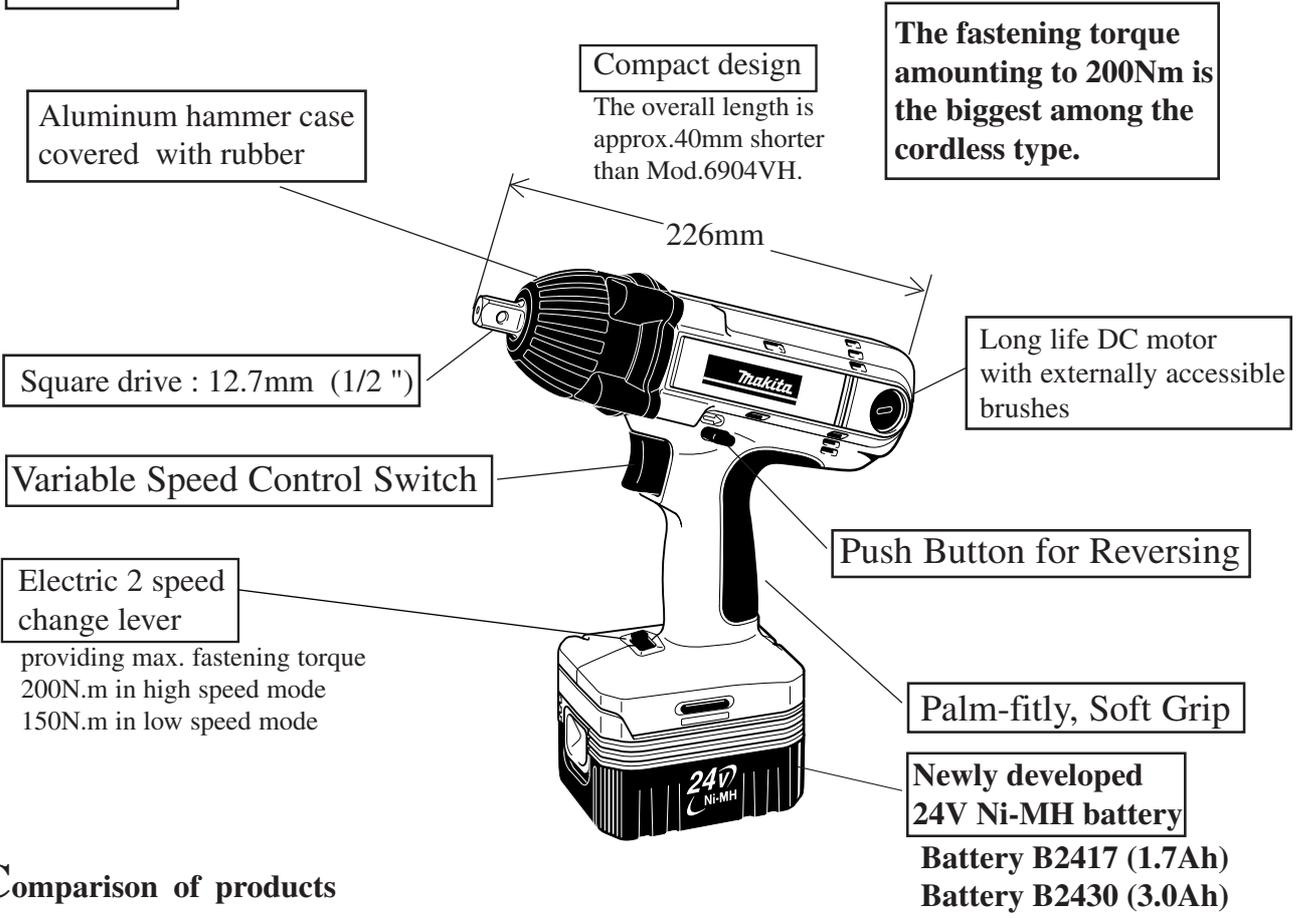
< Note > The standard equipment for the tool shown may differ from country to country.

► Optional accessories

- * Various sockets
- * Battery 2417
- * Battery 2430
- * Charger DC24SA
- * Bit adapter assembly (for philips bit)
- * Shoulder strap

► **Features and benefits**

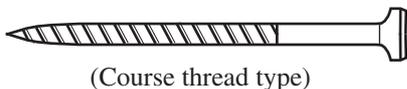
BTW200



► **Comparison of products**

Specification	Manufacturer	MAKITA		Competitor A
	Model No.	BTW200	6904VH	A
Voltage (V)		DC24	AC100	AC100
No load speed (min.ι=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.ι=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 (")		226 (8-7/8)	265 (10-7/16)	264 (10-3/8)
Net weight :Kg (lbs)		2.8 (6.1)	1.8 (4.0)	2.1 (4.6)

- (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.
- (3) The bit adapter assembly (134873-0) and philips bit are attached on the machine for course thread type.



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 differ depending on the conditions of battery, work piece, 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.

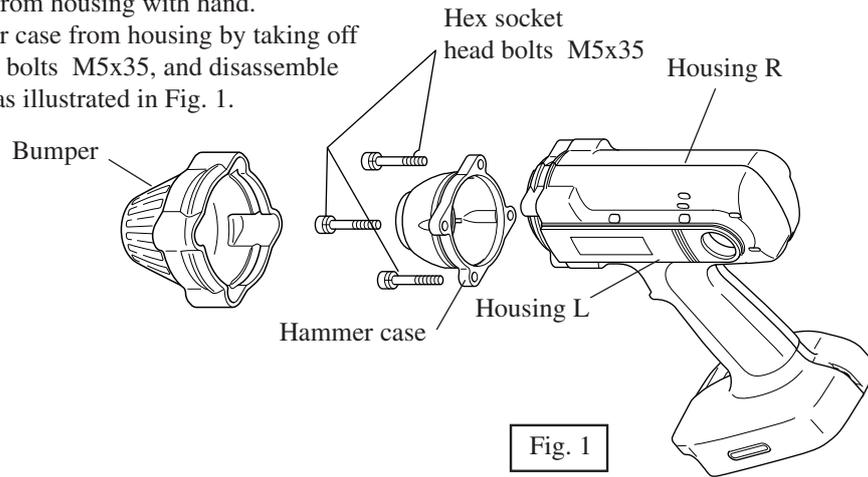


Fig. 1

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

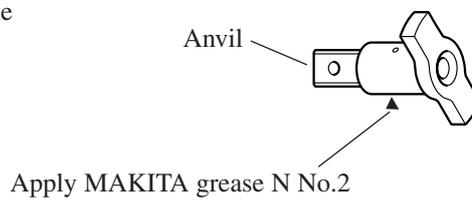


Fig. 2

<3> Disassembling hammer section

(1) Grip the hammer section with large gear extractor No.1R045 as illustrated in Fig. 3.

Press spindle to hammer by turning the handle clock-wise until it stops.

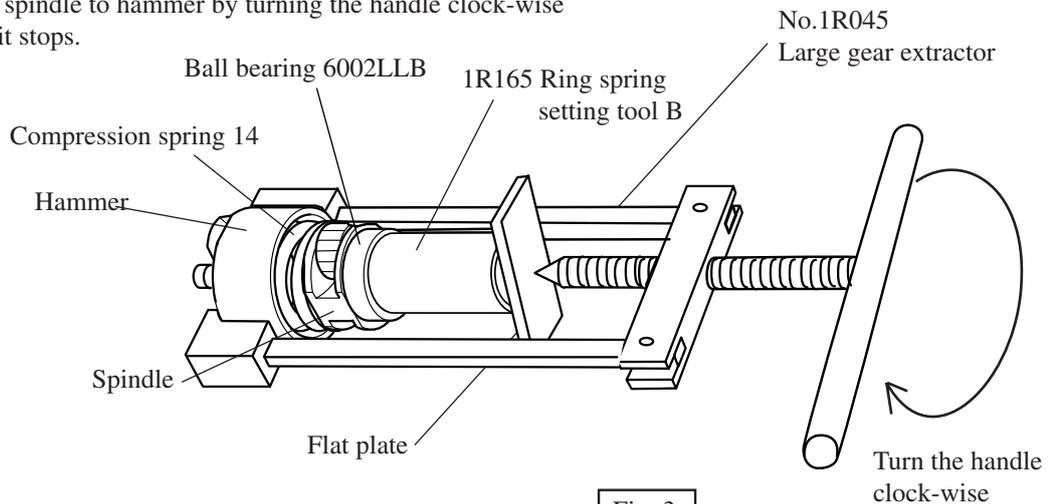


Fig. 3

- (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 per Fig.5A, when removing it from spindle. Otherwise steel balls 4 will fall off hammer.

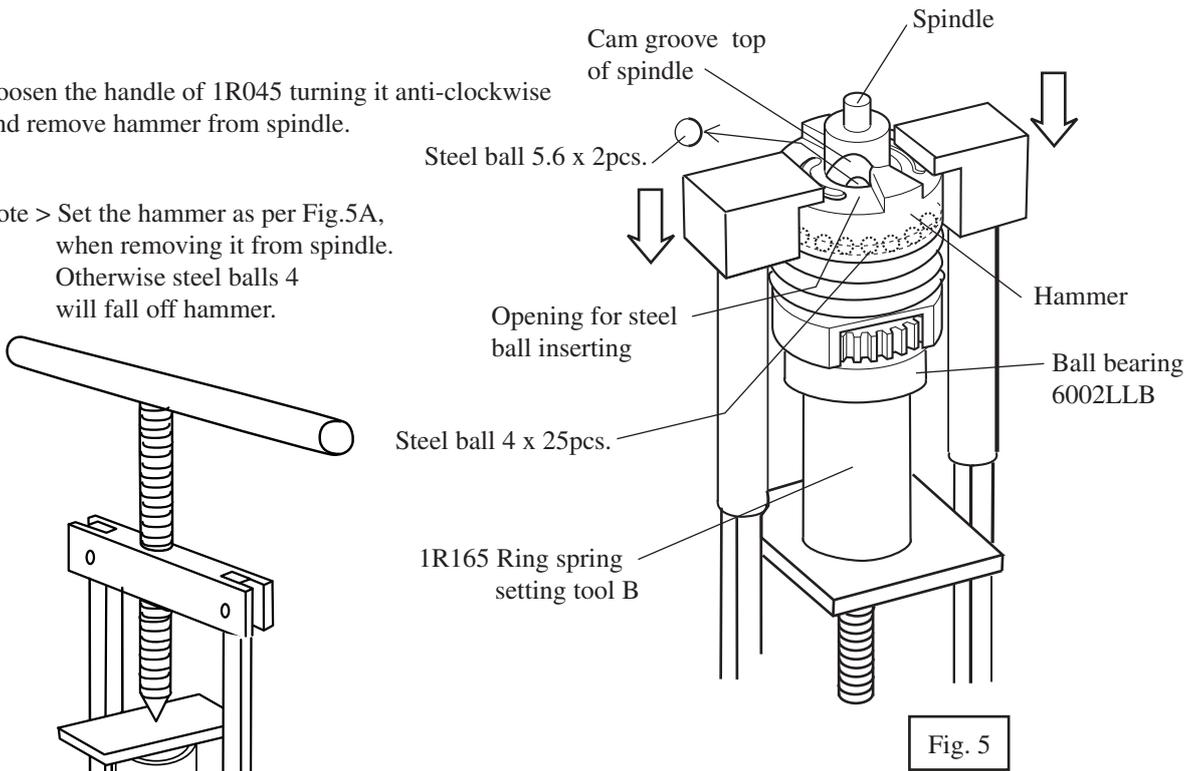


Fig. 5A

- (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.

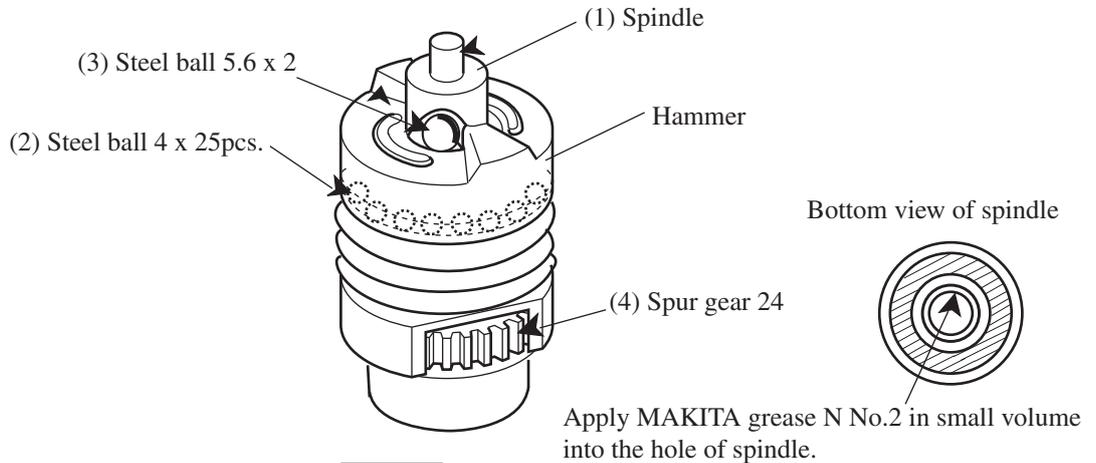
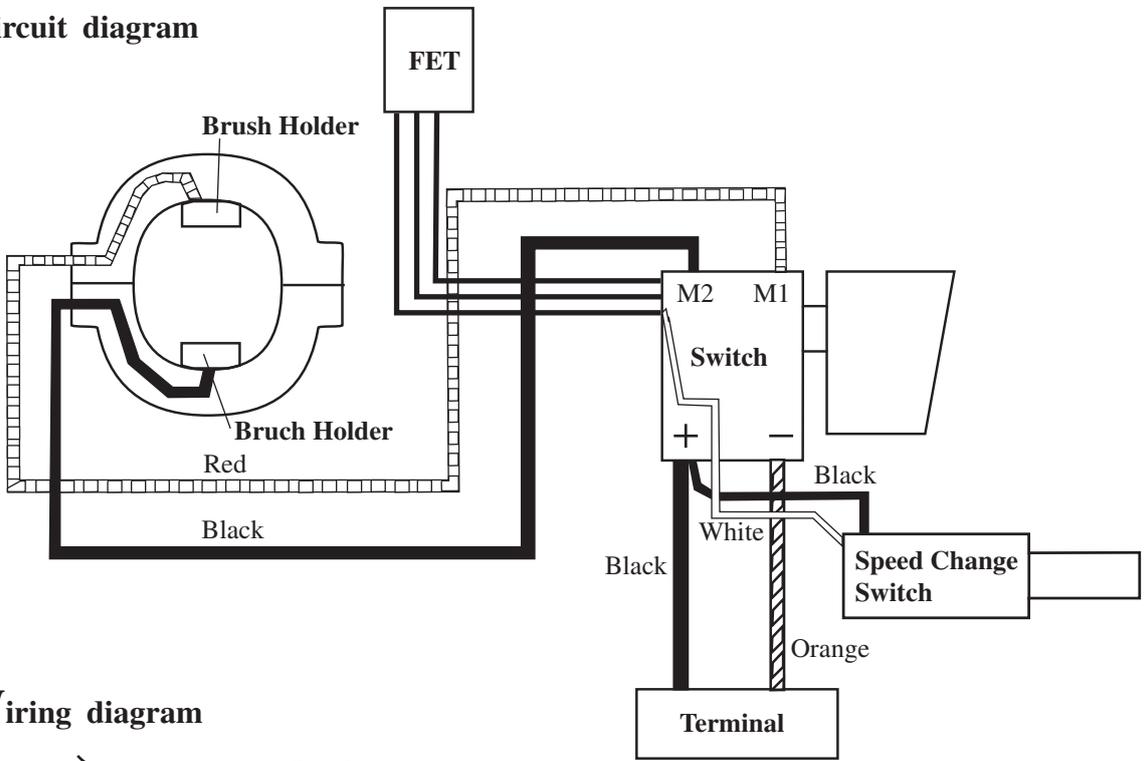


Fig. 6

► **Circuit diagram**



► **Wiring diagram**

