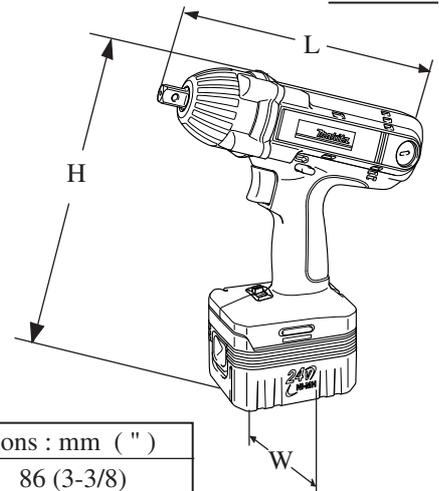


**Models No.** ▶ BTW200

**Description** ▶ Cordless Impact wrench

## CONCEPT 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

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

<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.

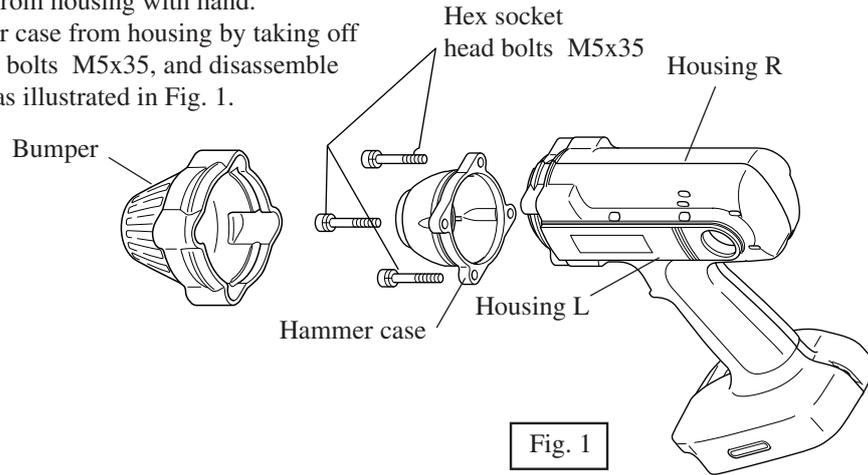


Fig. 1

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

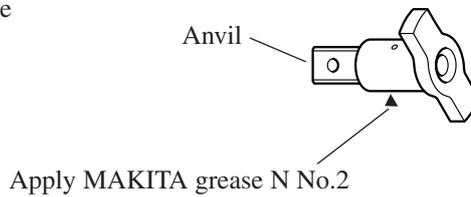


Fig. 2

<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.

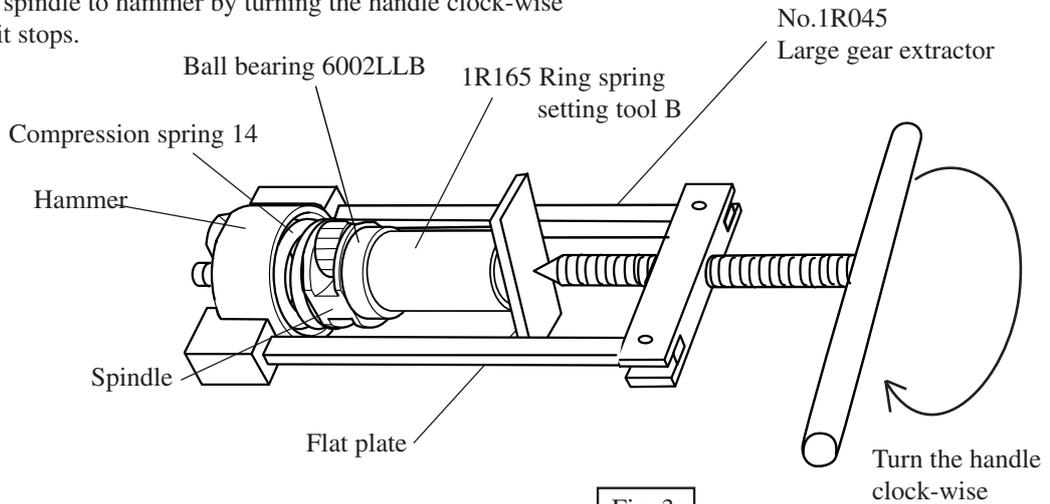


Fig. 3

- (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.

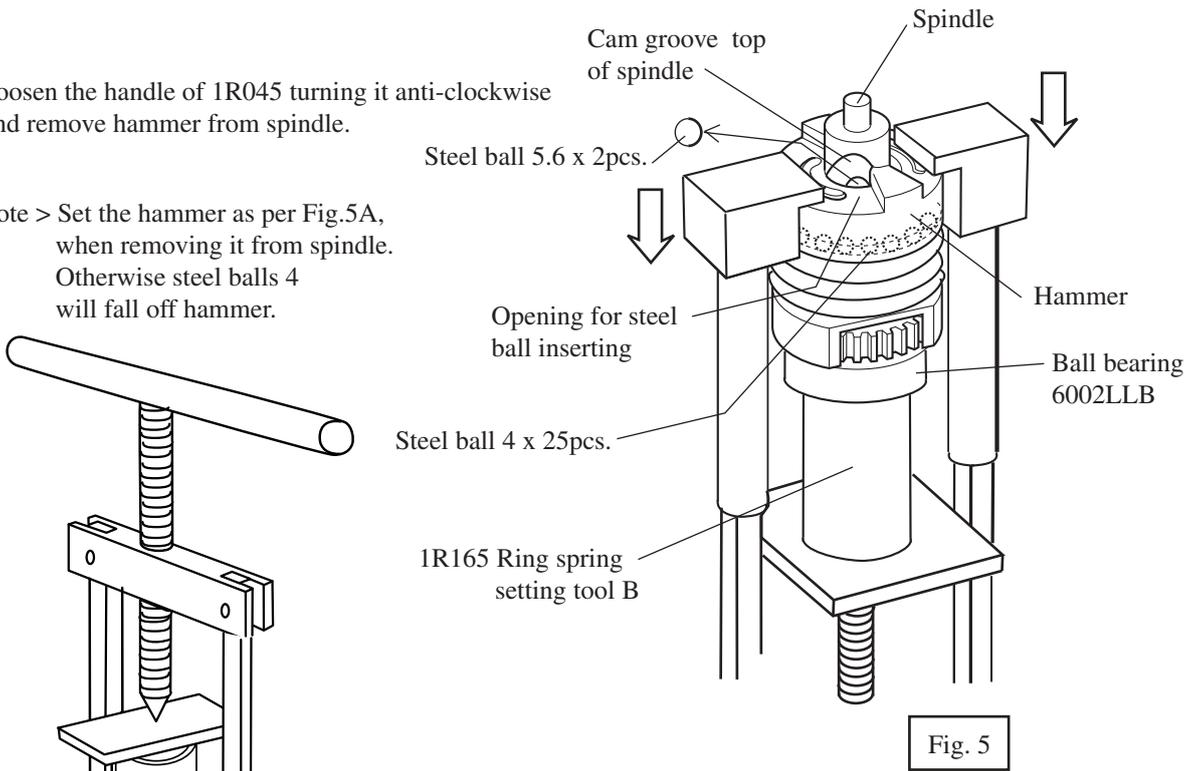


Fig. 5A

- (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.

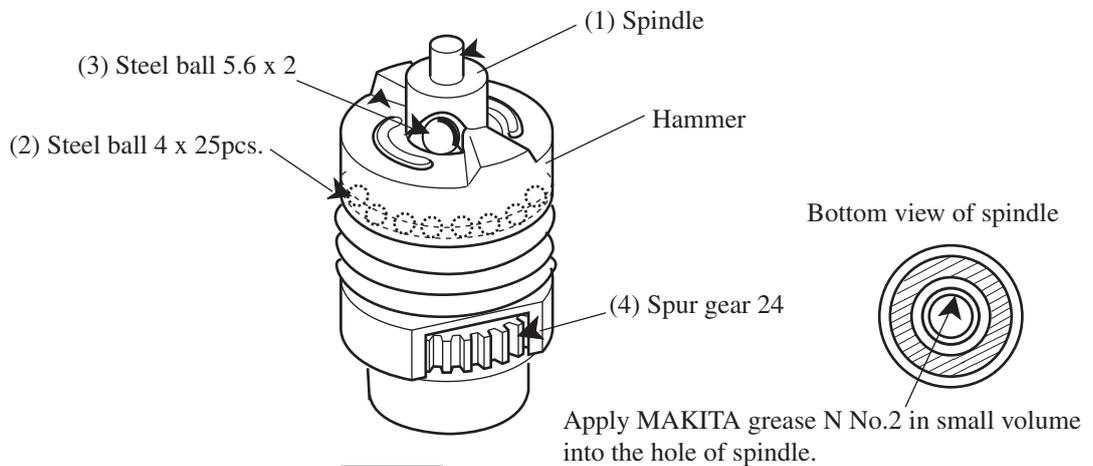
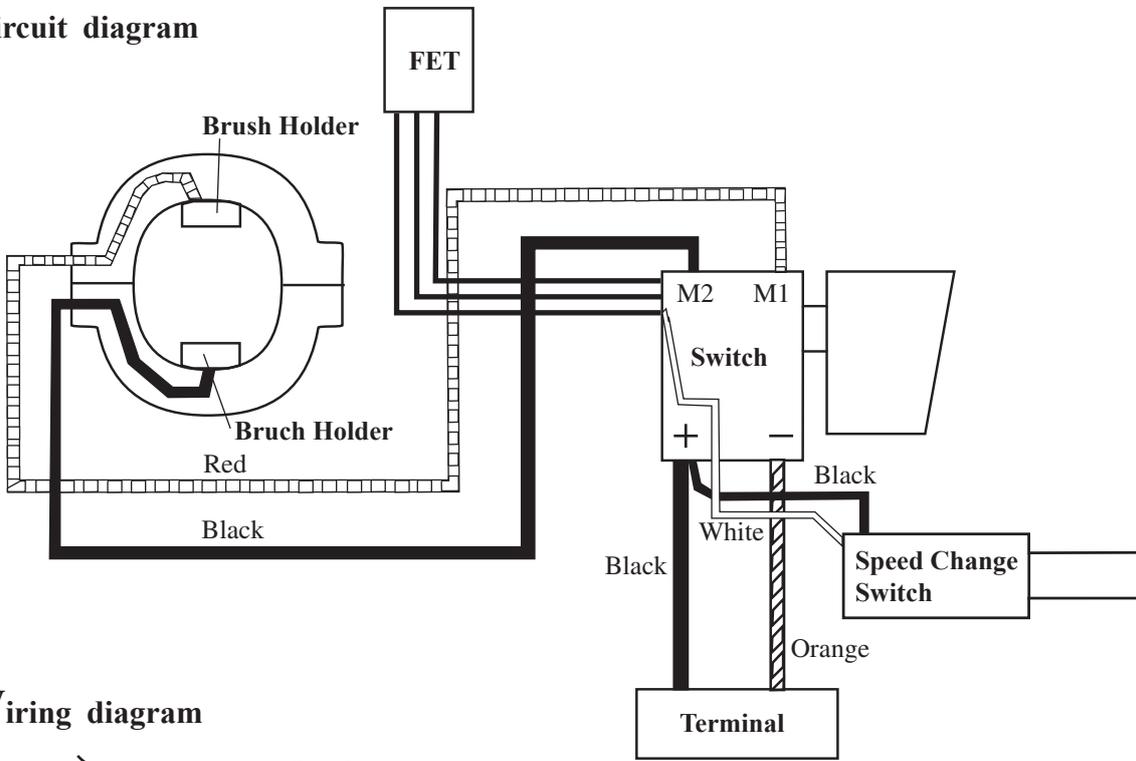


Fig. 6

Apply MAKITA grease N No.2 in small volume into the hole of spindle.

► **Circuit diagram**



► **Wiring diagram**

