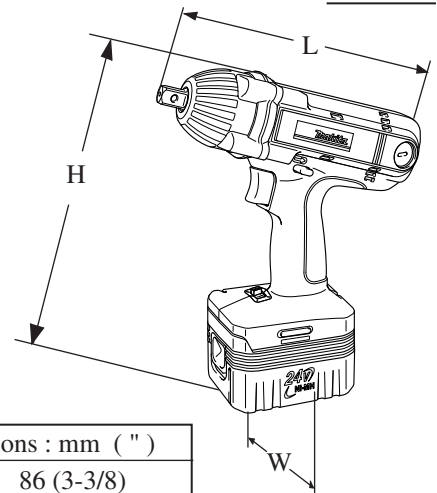


Models No. ▶ BTW200

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

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=ipm)	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

<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.

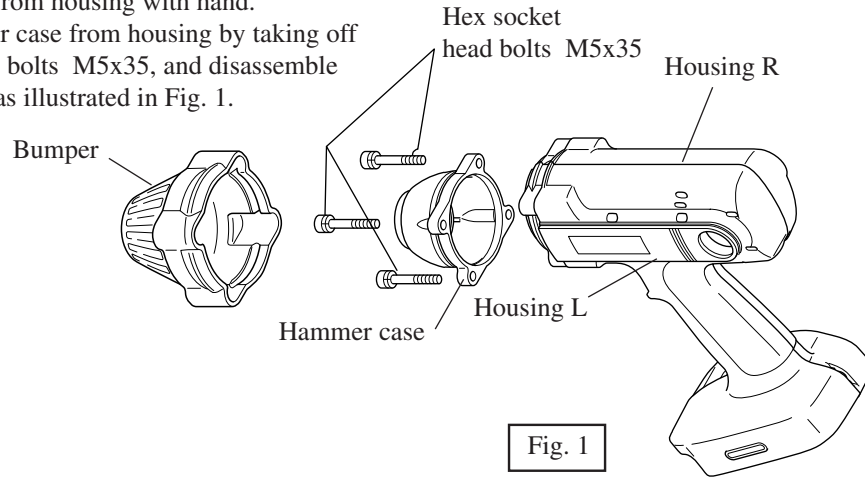


Fig. 1

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

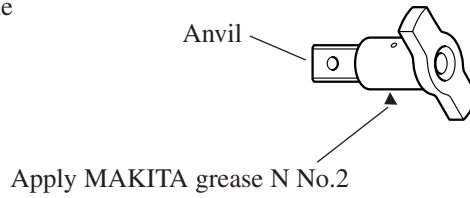


Fig. 2

<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.

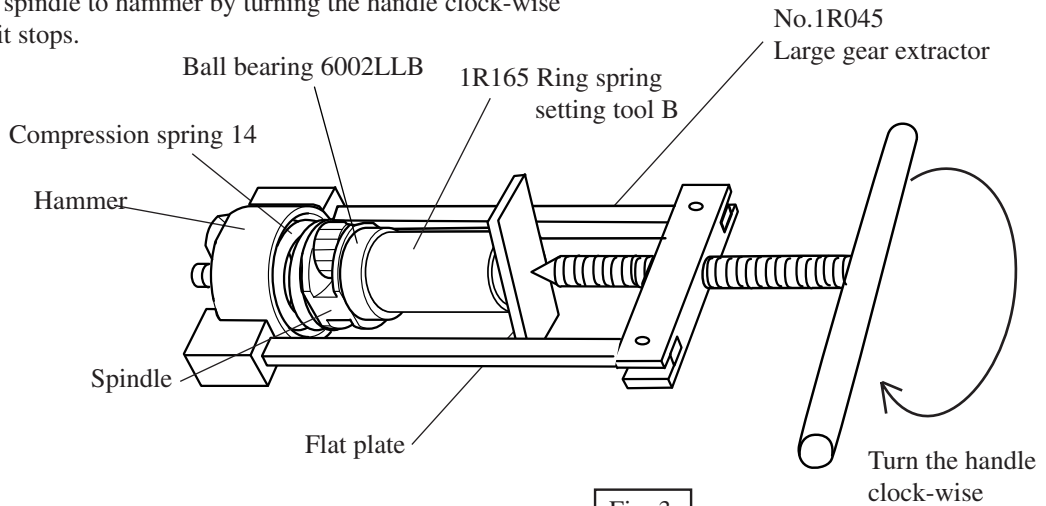
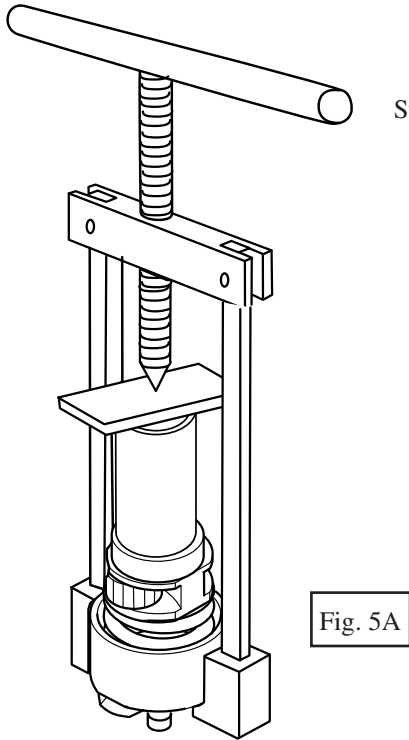
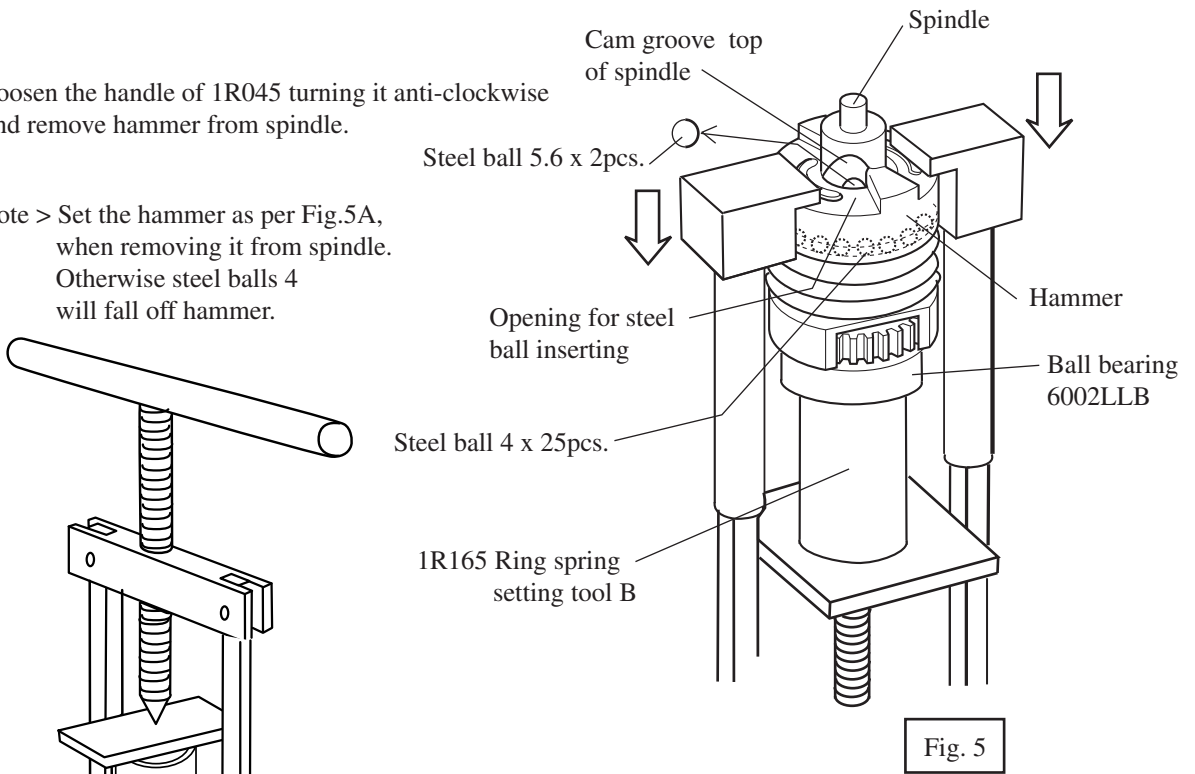


Fig. 3

- (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.

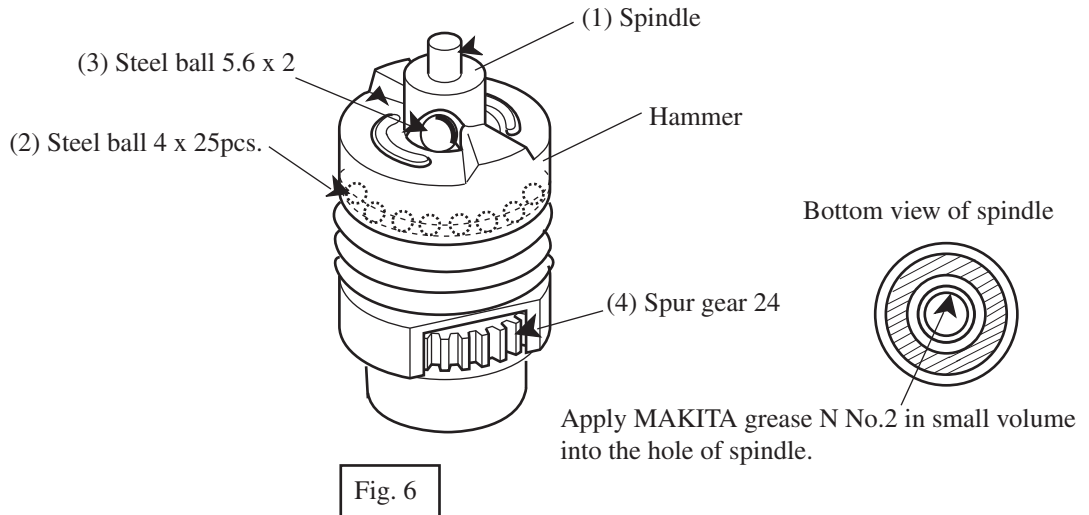
- (4) Loosen the handle of 1R045 turning it anti-clockwise and remove hammer from spindle.

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

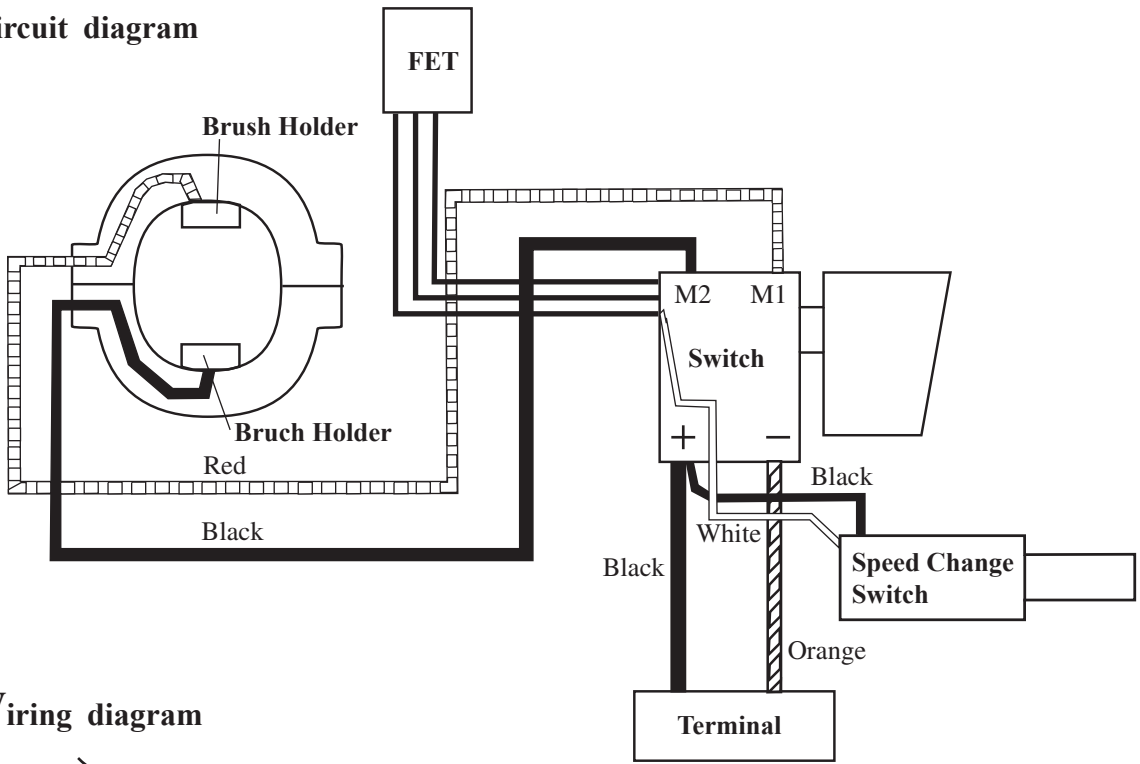


- (5) When assembling, adjust the "opening for steel ball inserting", to the "cam groove top" of spindle and insert steel ball 4 into hammer as illustrated in Fig. 5.

- (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**

