

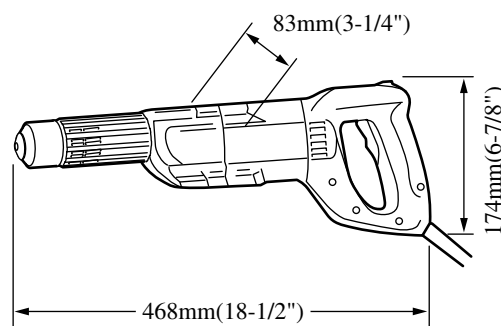
For Models ▶ HK0500

Description ▶ Power Scraper

CONCEPTION AND MAIN APPLICATIONS

Model HK0500 exclusively for SDS-Plus Bit, developed for fine chipping works, such as tearing up tiles, joints, and mortar in re-construction sites.

We have put Motor laterally and made the Barrel thickness to be suitable for gripping so that tile tearing works may be easier. In Chuck structure, one-touch sliding system has been applied, which you can attach only by inserting Bit and searching grooves. Moreover, your fingers will not be exhausted in continuous operations owing to Large switch and Large D-shape handle. At the top end, a very effective dust-proof cap with lip has been applied.



► Specifications

Voltage (V)	Current(A)	Cycle(Hz)	Continuous Rating(W)		Max. output(W)
			Input	output	
100	5.8	50/60	550	260	500
115	5.0	50/60	550	260	500
220	2.6	50/60	550	260	500
230	2.5	50/60	550	260	500
240	2.4	50/60	550	260	500

Motor	Series commutator motor (72 type 25)
Blows per minute	2000~3500 bpm

► Standard equipment

Scaling chisel

► Optional accesories

Bull point 14-250

Cold chisel 20-250

Scaling chisel 38-200

Grease for Bit

Grease for Hammer

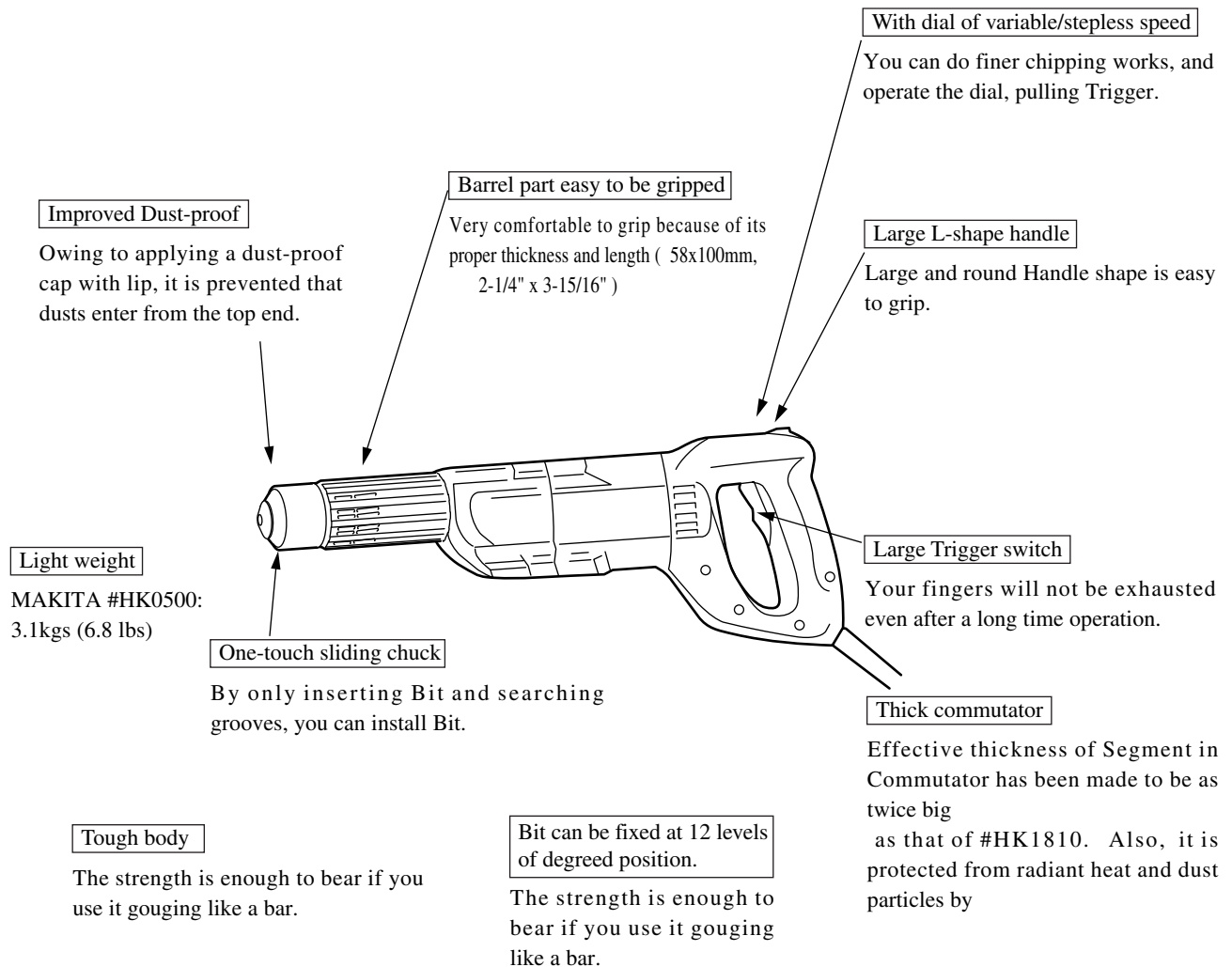
Shape for easy use

The length and shape suitable for tile tearing , putting Motor laterally.

Low Vibration

Whole plastic body

If Bit touches electric wires in the wall, electric shock is rarely conveyed to a worker because the whole outer surface is covered by plastic.



► Repair

1. Repair of Armature

Disassembly:

- 1) Remove Tapping screw 4x18 (6 pcs) , Handle cover, and Carbon brush. (See Fig. 1)

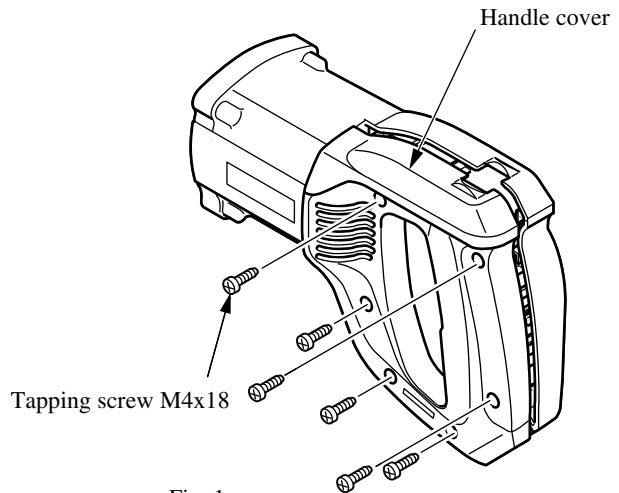


Fig. 1

- 2) Remove Tapping screw 5x20 (4 pcs) , and separate Clunk housing from Motor housing. (See Fig.2)

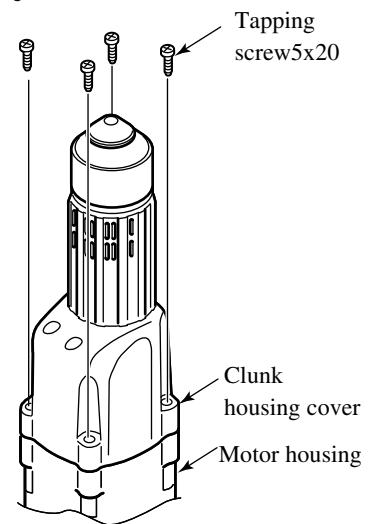


Fig. 2

- 3) Remove Countersunk head screw M4x12 (2 pcs) and Armature. (See Fig.3)

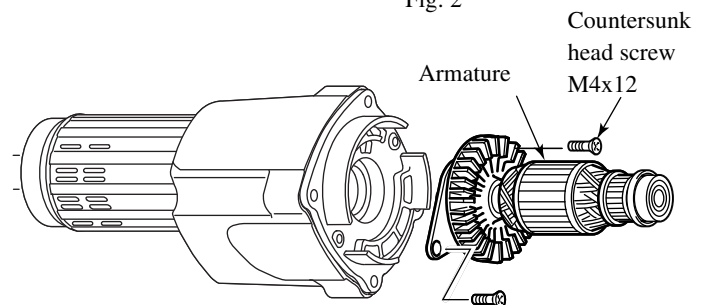


Fig. 3

Assembly:

- 1) After installing Bearing retainer 68 and Flat washer 12, attach Ball bearing 6201 DDW. Then install Retaining ring (axis) S-12. (See Fig.4)

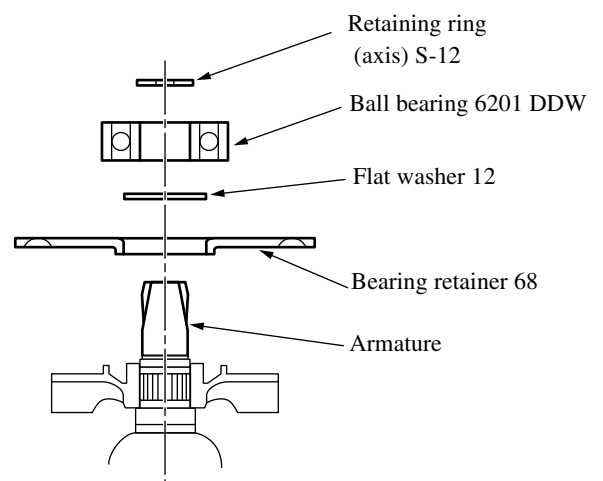


Fig. 4

2. Repair of Chuck

Disassembly:

- 1) Lower chuck cover and remove Cap37 (See Fig.5)
Then , remove Chuck cover, Compression spring38 and Spring guide (See Fig.6)
- 2) Remove Leaf spring 26 from Chuck ring and remove Pin(See Fig.7).

Remarks: You can remove Leaf spring easily by Retaining ring plier .

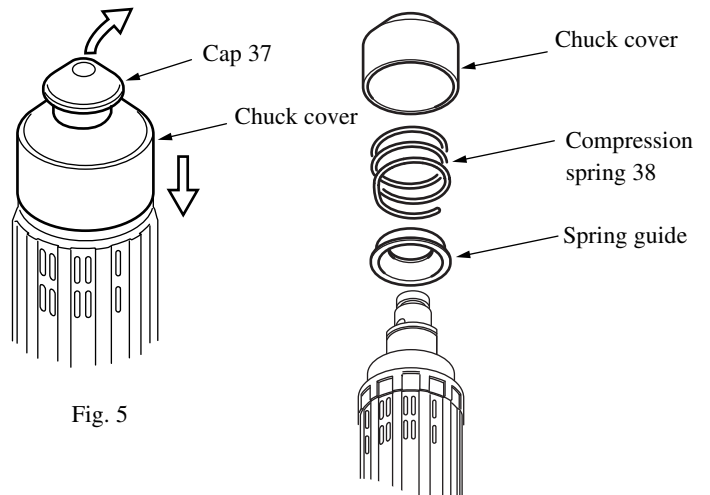


Fig. 5

Fig. 6

- 3) When removing Chuck ring, Steel ball7.0, Spring guide and Compression spring38 will come off. (See Fig.7)

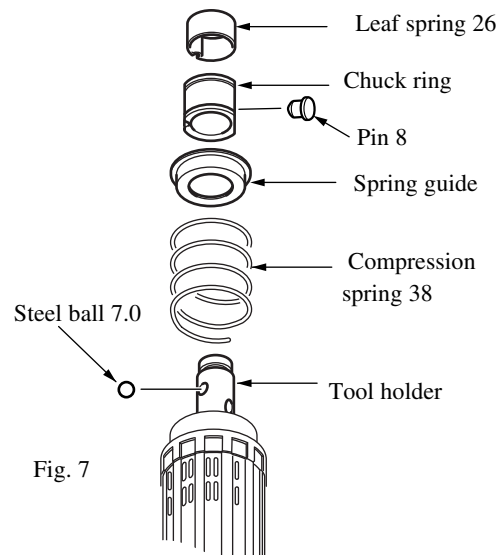


Fig. 7

Assembly

In attaching Pin8, you need to lower Spring guide (See Fig. 8).

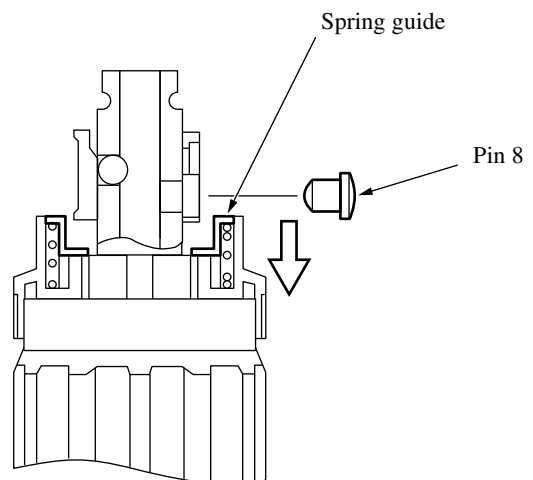
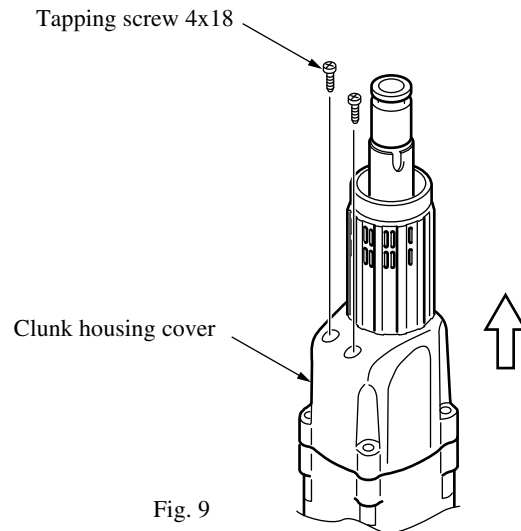


Fig. 8

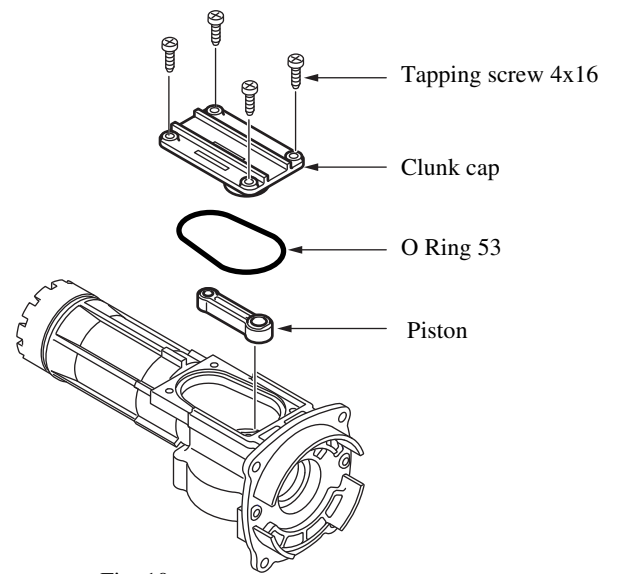
3. Repair of Clunk housing

Disassembly:

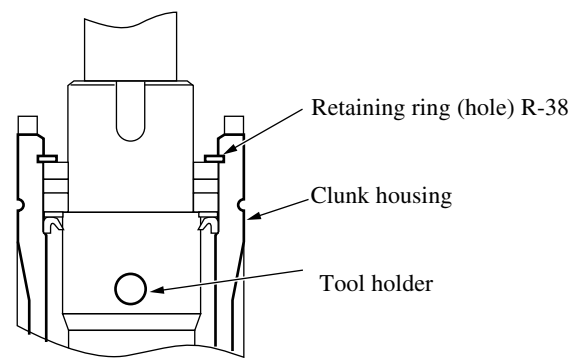
1) Remove Tapping screw 4x18 (2 pcs), and pull out Clunk housing cover. (Fig.9).



2) Remove Tapping screw 4x16 (4 pcs) and Clunk cap. (Fig.10)



3) Remove Retaining ring (hole) R-38 and pull out Tool holder. (Fig.11)



4) Take out Piston from Clunk housing. (Fig.10)

Assembly

- 1) After attaching Flat washer27 to Clunk housing, install Oil seal 30. (See Fig.12)

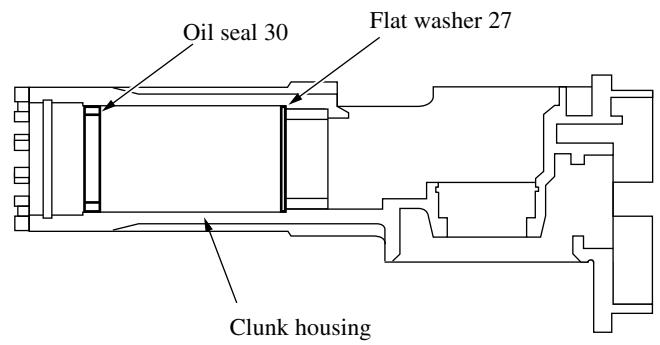


Fig. 12

- 2) After attaching Piston to Clunk shaft, install Tool holder. (Fig.10)
- NOTE: Check that Flat washer 27 is not inclining and is in a position shown in Fig. 12 .

- 3) Using Jig (1R 232), install Ring27, Polyurethane washer28 and Ring27 in this order. (See Fig. 13)

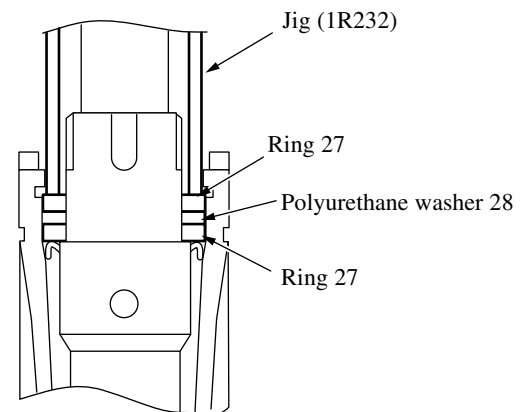


Fig. 13

- 4) Check if O Ring 53 is attached to Clunk cap or not. (See Fig.10)

4. Repair of Tool holder

Disassembly:

- 1) Insert SDS-plus with its end ahead , and pull out Striker by pressing Impact bolt.
(See Fig. 14)

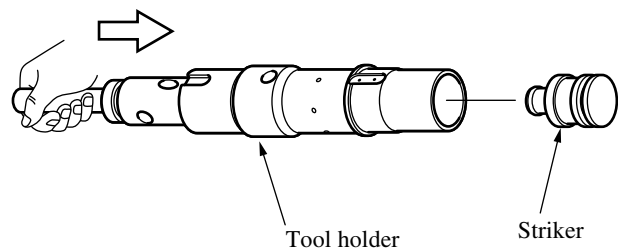


Fig. 14

- 2) Put a thin \ominus driver into hole of Tool holder, hit it by plastic hammer, and remove Ring spring 21 from grooves. (See Fig.15)

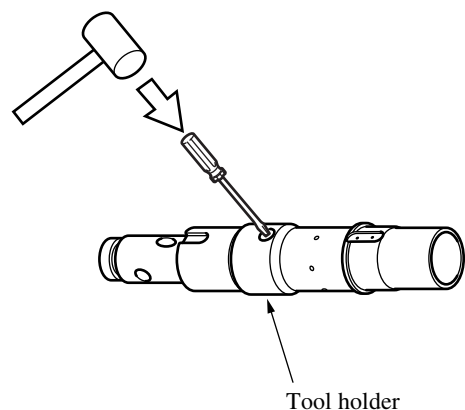


Fig. 15

- 3) Inserting a thin round rod into the end and hitting it by Plastic hammer, take the following items out of Tool holder;
Impact bolt, Flat washer13, O Ring 15,
O Ring case, Ring spring21
(See Fig. 16)

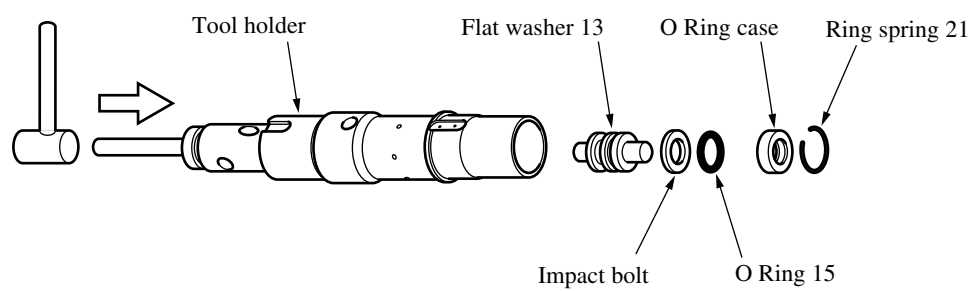


Fig. 16

Assembly

1) Check that O Ring 11 is put in O Ring case.

2) After making Flat washer13, O Ring 15 and O Ring case pass through Impact bolt, press them into Tool holder. (See Fig.17)

At that time use Striker as a jig putting up-side-down.

NOTE: Use O Ring 16 of Striker after removing. Be careful about the order of each part and the attaching direction of Impact bolt.

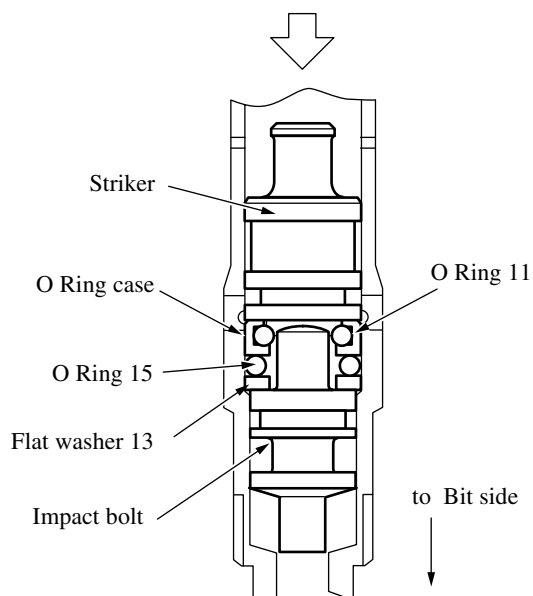


Fig. 17

3) In installation, exchange Ring spring 21 for a new one.

4) Insert Ring spring21 in Tool holder by ? driver, etc., use Striker as a jig in the same way as 2), and then place Ring spring 21 into grooves of Tool holder. (See Fig. 18)

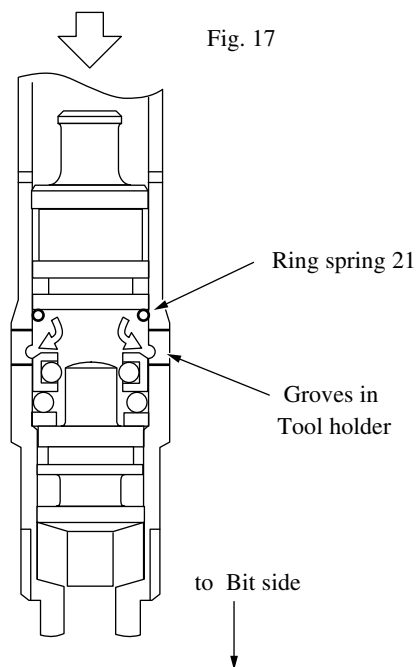


Fig. 18

5) Being careful of the attaching direction of Striker, press it into Tool holder. (See fig.19)

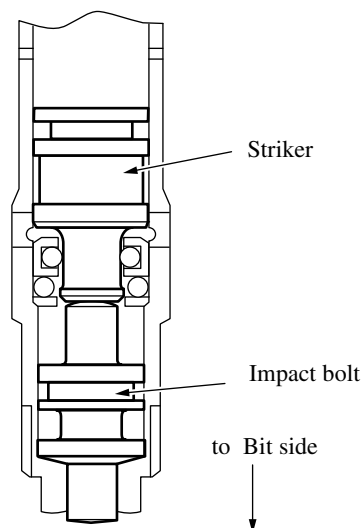


Fig. 19

5. Repair of Spiral gear

Disassembly

- 1) Remove Tapping screw 4x16 and Gear cover. (See Fig.20)
- 2) Use Jigs, 1R232 and 1R238, shown in Fig.20, press out Clunk shaft by Arbor press.

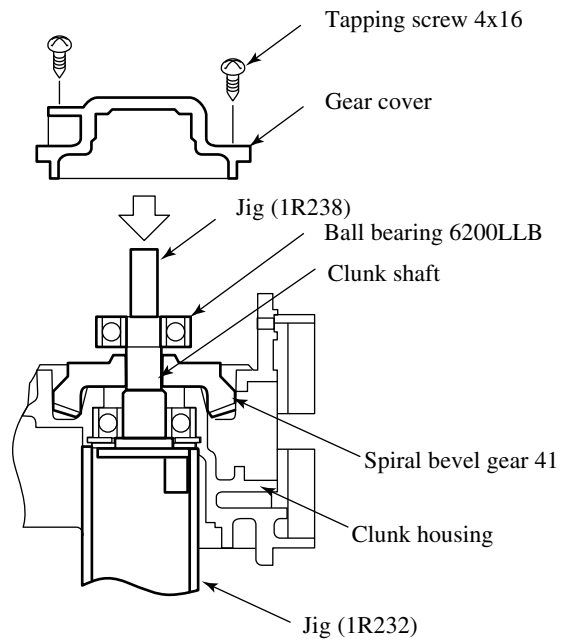


Fig. 20

Assembly

- 1) Attaching Ball bearing 6002LLU to Clunk housing, install Retainer ring(hole) R- 32. (See Fig. 21)
- 2) Install Oil seal 15 in Clunk housing using Jig 1R249. At that time put it approx. 1mm deeper than end surface. (See Fig.21)
- 3) Attach Clunk shaft.
- 4) Fixing Clunk shaft steadily by Jig 1R216, press in Spiral gear 41 and Ball bearing 6200LLB . After that, install Gear cover. (See Fig.22)

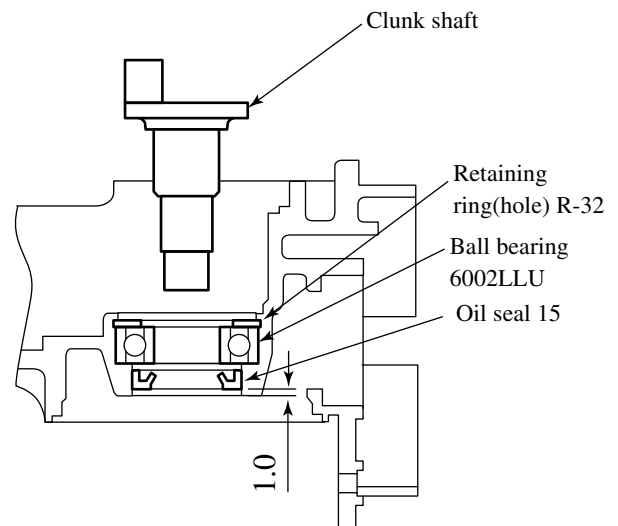


Fig. 21

- 3) Attach Clunk shaft.
- 4) Fixing Clunk shaft steadily by Jig 1R216, press in Spiral gear 41 and Ball bearing 6200LLB . After that, install Gear cover. (See Fig.22)

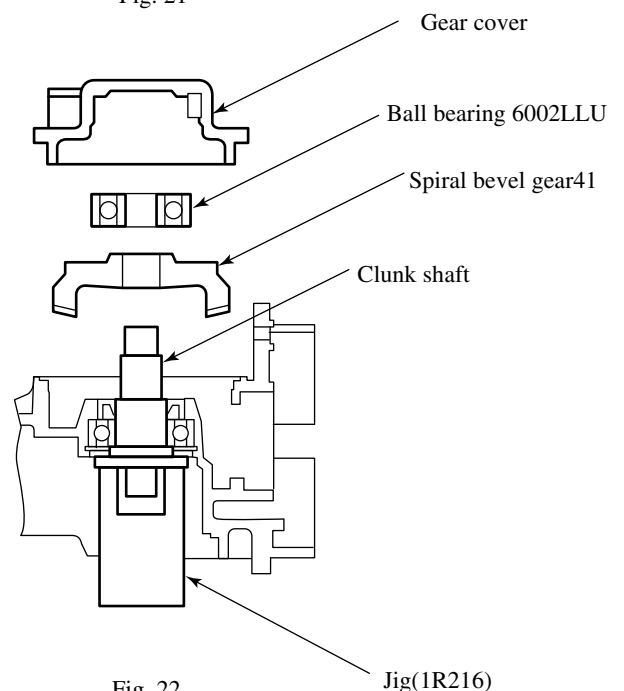


Fig. 22

6. Grease

[Grease exchange]

In exchanging Carbon brush, exchange Grease also.

- 1) Drive the Machine for several minutes for warming.
- 2) Referring to the above mentioned (2) Chuck repair and (3) Clunk housing, remove Clunk cap.
- 3) Directing the Machine top end upward, collect Grease in Clunk room, wipe it away with a cloth, and pour in 10 cc of MAKITA grease R No.00.

NOTE: If you put Grease more than the defined quantity, a trouble such as wrong striking may occur. So, be careful not to pour too much.

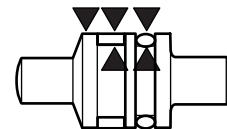
[Place to apply Grease] (▼:applying place)

Apply Grease to the following positions to prevent early abrasion and being burnt down.

1) Where MAKITA Grease is to be applied

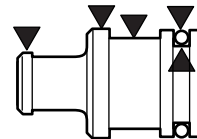
Impact bolt:

O Ring,
X Ring,
All around Impact bolt



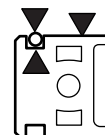
Striker:

O Ring,
All around Striker



Piston:

O Ring,
All around Piston

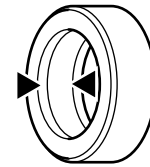


Rod :

Inside of attaching hole

O Ring case:

All around both inner/outer
diameters of O Ring

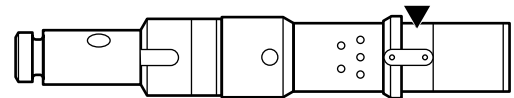
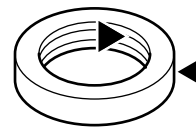


Oil seal 15

Oil seal 30

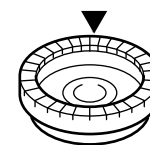
Tool holder:

All around the part shown
in the illustration.



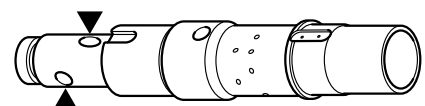
2. Where MAKITA Grease R No.1 is to be applied

Spiral bevel gear 41: Teeth surface



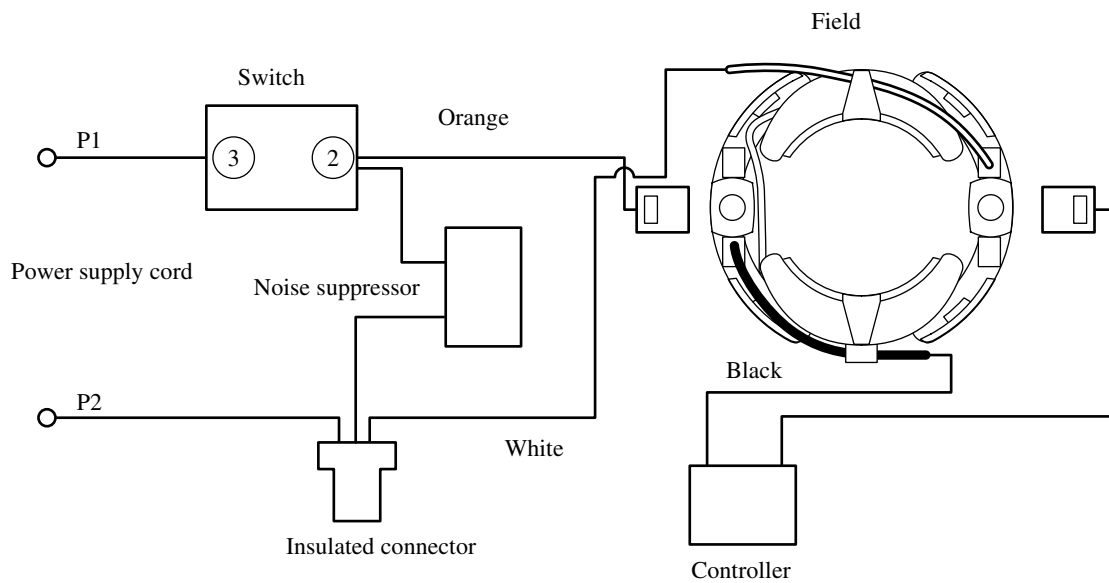
3. Where MAKITA Grease N No.2 is to be applied

Tool holder: Pin hole,
Steel ball hole



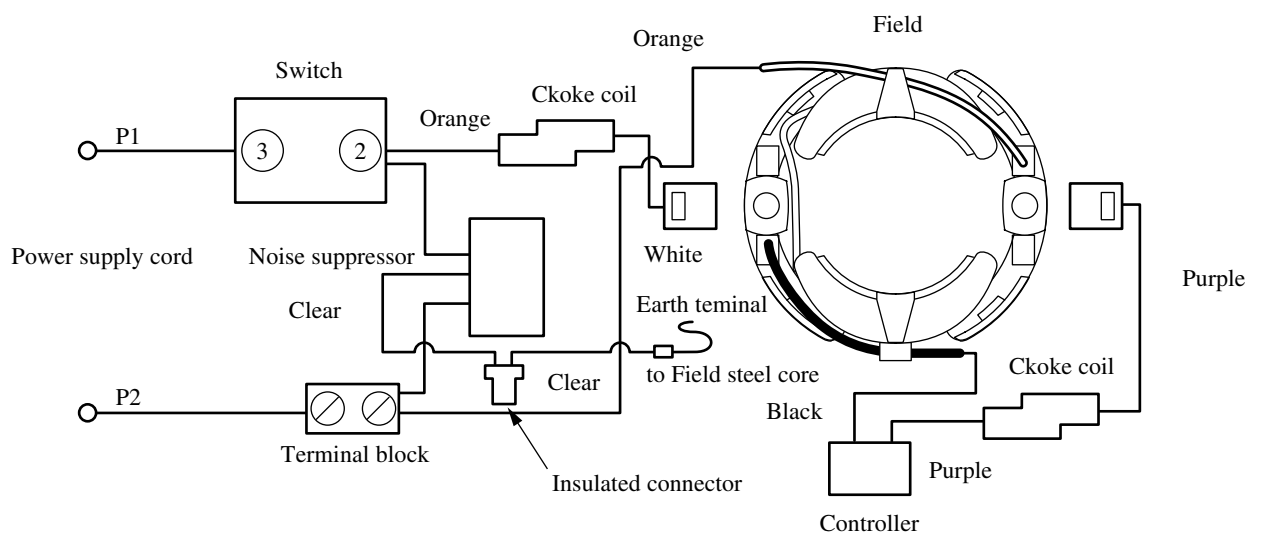
▶ Wiring diagram

[Where Insulated connector is used]



NOTE: In some areas, Noise suppressors are not used.

[Where Terminal black is used]



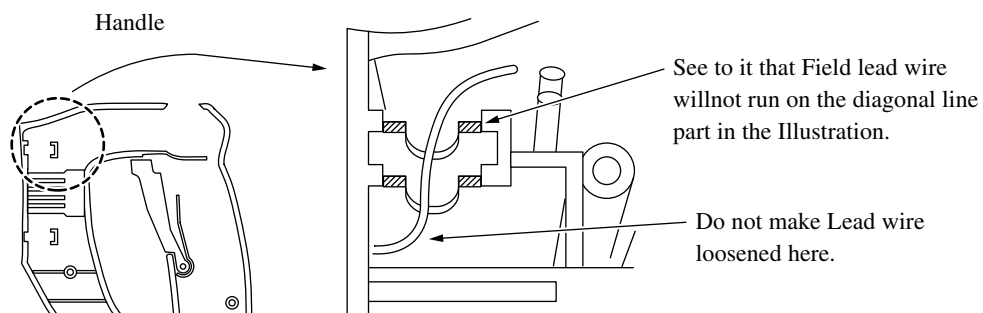
NOTE:

*In some areas, Noise suppressors are not used or Two-foot Noise suppressors are used.

* In other areas, Choke coils are not used.

► Notes in assembly

(1) Field lead wire (Black)



(2) Within Handle

