

T ECHNICAL INFORMATION



PRODUCT

P 1 / 21

Models No. ▶ HR2432

Description ▶ Rotary Hammer with Dust Extraction

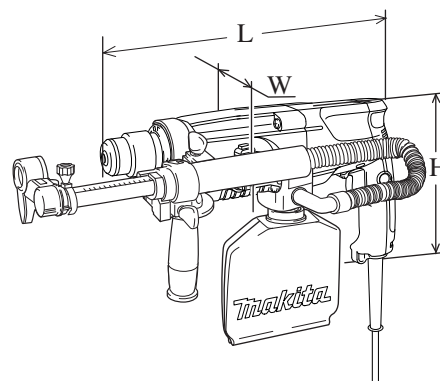
CONCEPT AND MAIN APPLICATIONS

Model HR2432 has been developed as a successor to the current HR2430, and features the following advantages;

- * Self dust extraction system for clean operation
 - * Bigger fan and bigger dust bag for efficient dust extraction
- All other outstanding features are the same as Model HR2450.

They are;

- * 3 operation mode settings
(Rotation only/ Rotation with hammering/ Hammering only)
- * Practical chisel angle positioning - 40 desired positions without using chisel adapter



Dimensions: mm (")	
Length (L)	407 (16)
Width (W)	120 (4-3/4)
Height (H)	220 (8-3/4)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
110	7.5	50 / 60	780	280	600
120	6.7	50 / 60	780	280	600
220	3.7	50 / 60	780	280	600
230	3.6	50 / 60	780	280	600
240	3.4	50 / 60	780	280	600

No load speed : (min-1= rpm)		0 - 1,000
Blows per min. :(bpm=min-1)		0 - 4,500
Impact energy : J		2.2
Variable switch		Yes
Reverse switch		Yes
Bit type		SDS-plus
* Max. bit diameter : mm (")		24(15/16) [25(1" for USA]
Protection from electric shock		Double insulation
Cord length : m (ft)	Australia	2.0 (6.6)
	Europe	4.0 (13.1)
	Other countries	2.5 (8.2)
Net weight :Kg (lbs)		3.0 (6.6)

► Standard equipment

- * Cap 1 pc.
- * Plastic carrying case 1 pc.

Note: The standard equipment for the tool shown above may vary from country to country.

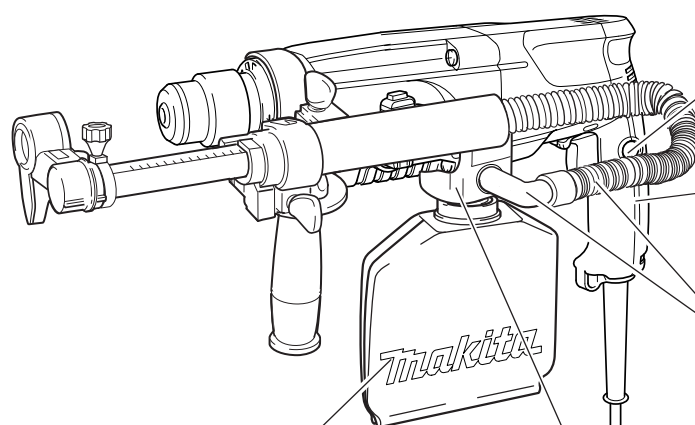
► Optional accessories

- | | | |
|---|---|---|
| * T.C.T. Hammer drill bit 4mm - 24mm
(5/32" - 15/16")
for USA. up to 25mm(1") | * Drill chuck assembly | * Taper shank adapter |
| * Bull point | * Scraper assembly | * Cotter |
| * Cold chisel 20mm (13/16") | * Dust cup 5 (for ø6-14.5mm SDS plus bit) | * Grease |
| * Scaling chisel 38mm, 50mm
(1-1/2", 2") | * Dust cup 9 (for ø12-16mm SDS plus bit) | * Depth gauge |
| * Grooving chisel 8mm, 12mm
(5/16", 1/2") | * Safety goggles | * Hammer service kit |
| | * Blow out bulb | * Bit grease |
| | * Core bit | * Cuff for the connection with
Dust Collector's hose |
| | * Diamond core bit | |
| | * Taper shank T.C.T. hammer drill bits | |

► Features and benefits

Features Dust Extraction, Ensuring Clean Operation

Dust extraction efficiency is also greatly increased with 1) Large dust bag and 2) Big fan.
Ideal one for overhead application or house-remodeling jobs to which dust is a nuisance



Lock-On Button

For continuous operation

Palm Fitting Soft Grip

Provides comfortable operation with better control.

Durable Hose

Elbow-shaped nozzle prevents the hose from dangling down to reduce the possibility of hose breakage.

1) New Large Dust Bag

See the comparison graph below.

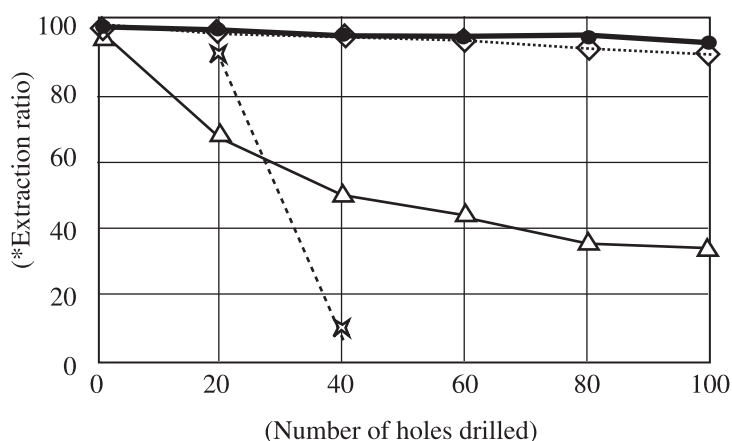
2) Big Fan Provides Incredibly High Dust Extraction Power.



[Change in dust extraction efficiency]

[Test conditions]

- *Material: Concrete
- *Diameter of bit: 10mm
- *Depth of hole: 50mm



●—● Makita HR2432

△—△ Makita HR2430

×---× Competitor B Model C (See page 3.)

◇.....◇ Competitor A Model A (See page 3.)

► Comparison of products

[1] Specifications

Model No. Specifications				Makita		Competitor A	Competitor B		
				HR2432	HR2430	Model A	Model B	Model C	
Power input: W				780	710	750	500	650	
Rated amperage for North America: A				6.7	6.2	N/A	N/A	N/A	
Reverse switch				Yes	Yes	Yes	Yes	Yes	
No load speed: (rpm=min ⁻¹)				0 - 1,000	0 - 1,050	0 - 820	0 - 800	0 - 880	
Blows per min.:(bpm=min ⁻¹)				0 - 4,500	0 - 4,900	0 - 4,550	0 - 4,000	0 - 5,100	
Bit shank				SDS-plus	SDS-plus	SDS-plus	SDS-plus	SDS-plus	
Capacity	Concrete	T.C.T. Bit diameter: mm (")	North America	25 (1)	24 (15/16)	24 (15/16)	17.5 (11/16)	24 (15/16)	
			Others	24 (15/16)					
		Core bit diameter: mm (")			65 (2-9/16)	—	80 (3-1/8)	N/A	68 (2-11/16)
	Steel: mm (")				13 (1/2)	13 (1/2)	13 (1/2)	N/A	13 (1/2)
	Wood: mm (")				32 (1-1/4)	32 (1-1/4)	32 (1-1/4)	N/A	20 (13/16)
Impact energy: J				2.2	2.0	2.2	2.0	1.8	
Operation modes		R: Rotation R+H: Rotation + Hammering H: Hammering		3 modes R/ R+H / H	2 modes R/ R+H	3 modes R/ R+H / H	2 modes R/ R+H	3 modes R/ R+H / H	
Torque limiter (Clutch)				Yes	Yes	Yes	Yes	Yes	
Soft grip				Yes	No	No	Yes	Yes	
Lock-on button				Yes	No	Yes	No	No	
Double insulation				Yes	Yes	Yes	Yes	Yes	
Net weight: kg (lbs)				3.0 (6.6)	2.6 (5.7)	3.3 (7.3)	3.5 (7.7)	3.7 (8.2)	
Dust bag capacity: L				3.7	1.3	3.7	0.2	0.2	
Power supply cord: m (ft)		Europe	4.0 (13.1)	2.0 (6.6) for Australia	4.0 (13.1)	N/A	4.0 (13.1)		
		Australia	2.0 (6.6)						
		Others	2.5 (8.2)						
Dimensions	Length: mm (")			407 (16)	416 (16-3/8)	410 (16-1/8)	480 (18-7/8)	467 (18-3/8)	
	Width: mm (")			120 (4-3/4)	70 (2-3/4)	116 (4-9/16)	95 (3-3/4)	75 (2-15/16)	
	Height: mm (")			220 (8-3/4)	197 (7-3/4)	220 (8-3/4)	270 (10-5/8)	222 (8-3/4)	

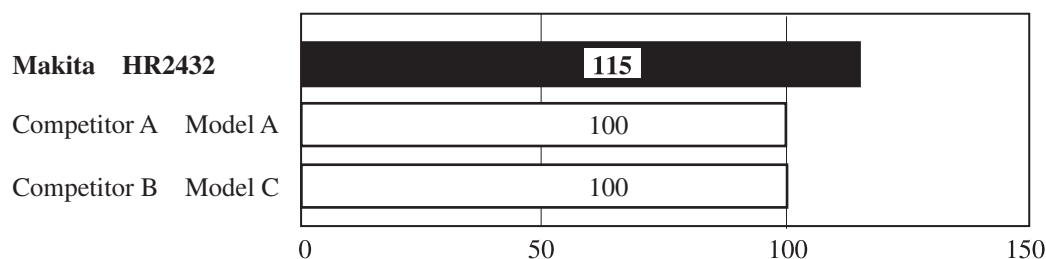
[2] Comparison of work speed

Test conditions

*Material: Concrete with compressive strength of 35N/mm²

*Bit diameter: 10.5mm

*Working mode: Rotation with hammering



Note: Numbers in the chart above are relative values when the capacity of Model A of Competitor A is indexed at 100.

► Repair

CAUTION: Disconnect the machine and remove the drill bits from the machine for safety before repair/ maintenance !

[1] NECESSARY REPAIRING TOOLS

Code No.	Descriptions
1R003	Retaining Ring Pliers ST-2N 250mm for External Ring
1R004	Retaining Ring Pliers ST-2 200mm for External Ring
1R008	Tips for Retaining Ring Pliers (2pcs/set for 90 degrees)
1R022	Bearing Plate
1R023	Pipe Ring for Arbor Press
1R034	Bearing Setting Plate 12.2
1R038	Armature Holder 32 Set for Use with Vise
1R164	Ring Spring Setting Tool A
1R165	Ring Spring Setting Tool B
1R212	Tips for Retaining Ring Pliers
1R236	Round Bar for Arbor 7-100
1R240	Round Bar for Arbor 11-100
1R241	Round Bar for Arbor 12-100
1R252	Round Bar for Arbor 30-100
1R263	Bearing Extractor
1R269	Bearing Extractor (small)
1R306	Ring Spring Removing Jig

► Repair

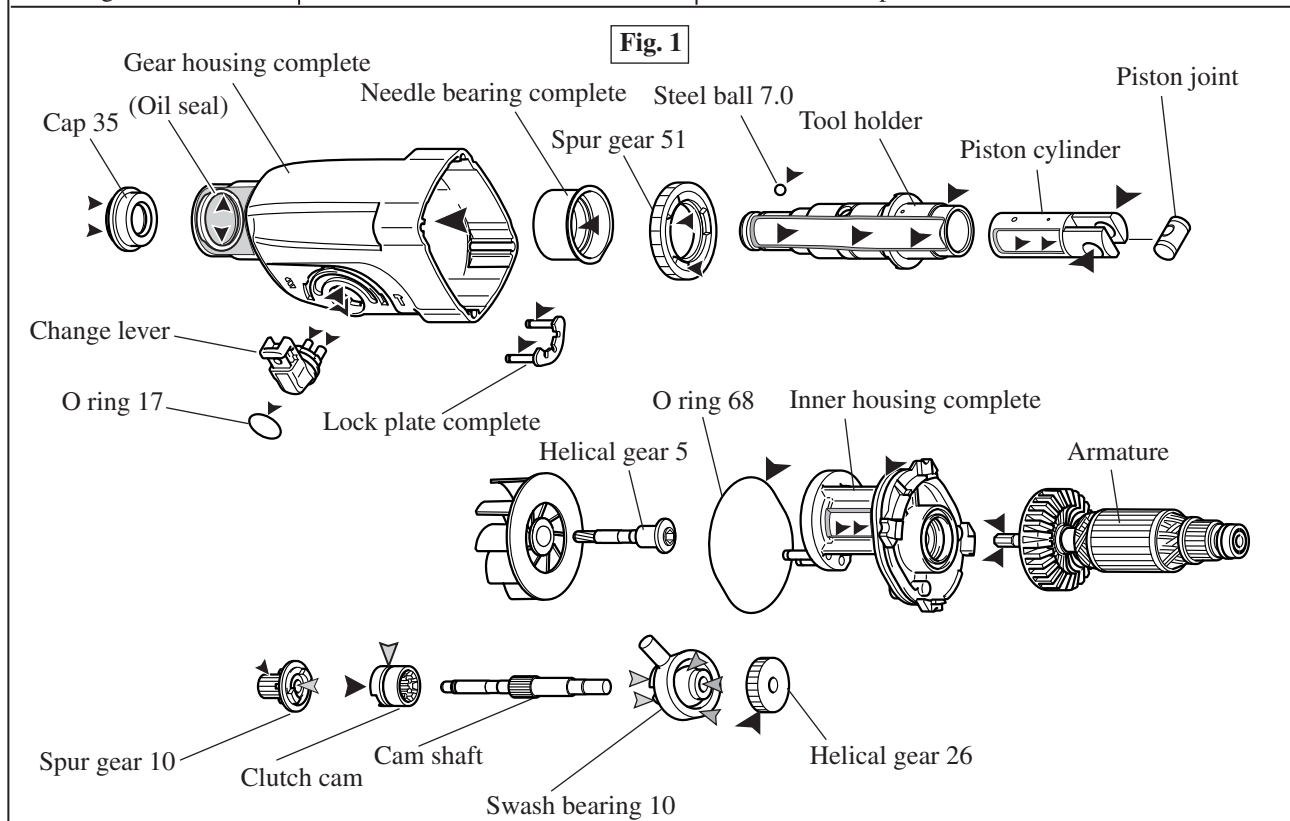
[2] LUBRICATION

Apply the following Makita grease to protect parts and product from unusual abrasion.

* Grease RA No.1 (Brown) to the portions marked with black triangle

* Grease FA No.2 to the portions marked with gray triangle

Cap 35	Grease RA No.1 (Brown)	Inner lip of bit inserting side
Gear housing complete	Grease RA No.1 (Brown) : 55g	Inner portion where the mechanical parts are installed. Groove for O ring 17 assembling portion
Needle bearing complete	Grease RA No.1 (Brown)	Inner ring
Change lever	Grease RA No.1 (Brown)	Top of the pins
O ring 17	Grease RA No.1 (Brown)	Whole part
Spur gear 51	Grease RA No.1 (Brown)	Inner portion where tool holder contacts Convex portion of cam
Steel ball 7.0	Grease RA No.1 (Brown)	Whole part
Tool holder	Grease RA No.1 (Brown)	Inner portion where piston cylinder contacts The portion where inner housing contacts
Piston cylinder	Grease RA No.1 (Brown)	Inner portion where striker contacts The portion where piston joint is assembled
Lock plate complete	Grease RA No.1 (Brown)	Pin portion
O ring 68	Grease RA No.1 (Brown)	Whole part
Inner housing complete	Grease RA No.1 (Brown): 5g	Inner portion where tool holder contacts The groove where O ring 68 is assembled
Spur gear 10	Grease RA No.1 (Brown) Grease FA No.2	Spiral portion The hole where cam shaft contacts
Clutch cam	Grease RA No.1 (Brown) Grease FA No.2	Convex portion of cam Whole of groove portion
Armature	Grease RA No.1 (Brown): 1g	Hex portion which is inserted into helical gear 5
Swash bearing 10	Grease FA No.2	Inner portion where cam shaft contacts The surface where helical gear 26 contacts The portion where balls are installed Convex portion of cam
Helical gear 26	Grease RA No.1 (Brown)	Whole of teeth portion



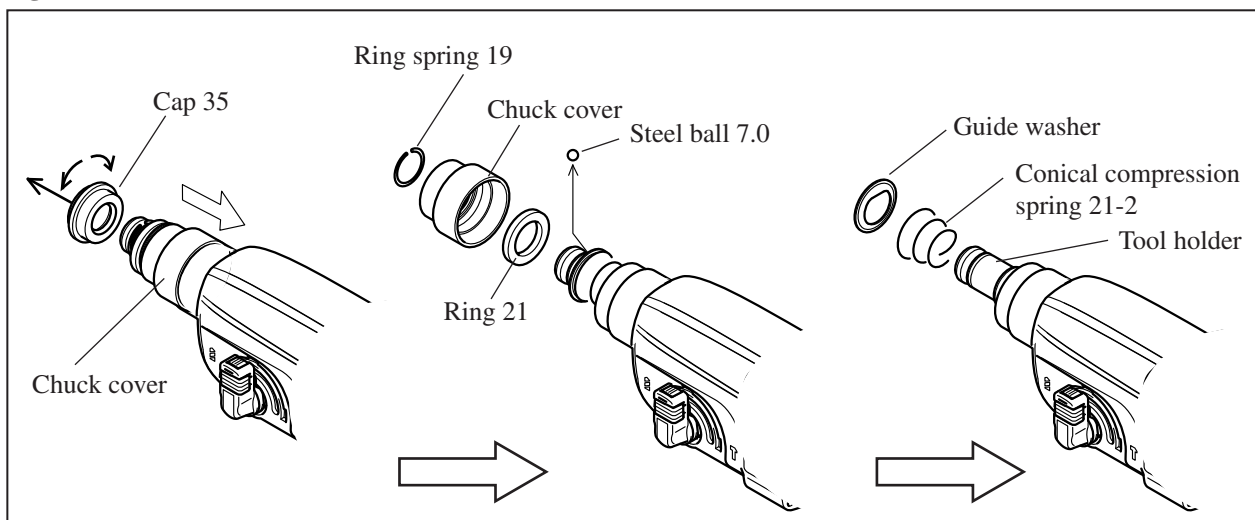
► Repair

[3] -1. Disassembling Chuck Section

See Fig. 2.

- Slide down chuck cover in the direction of gear housing, and remove cap 35 while twisting it.
- Detach ring spring 19. Then, the following parts can be removed from tool holder.
 - * Chuck cover
 - * Ring 21
- Take off steel ball 7.0 with which guide washer and conical compression spring 21-29 are secured. Guide washer and conical compression spring 21-29 can be removed from tool holder. See Fig.2.

Fig. 2



[3] -2. Assembling Chuck Section

- Apply grease to steel ball 7.0 and cap 35 referring to [2] LUBRICATION in page 5.
- Refer to Fig.2.
 - Assemble conical compression spring 21-29 and guide washer, and secure guide washer with steel ball 7.0.
- Assemble ring 21 and chuck cover to tool holder. And then, secure them with ring spring 19.
- Slide down chuck cover in the direction of gear housing, and attach cap 35.

< Note in assembling >

- Pay attention to the direction of conical compression spring 21-29. See Fig.3.
- The notch portion of ring spring 19 should face the opposite side of the flat portion of tool holder. See Fig.4.

Fig. 3

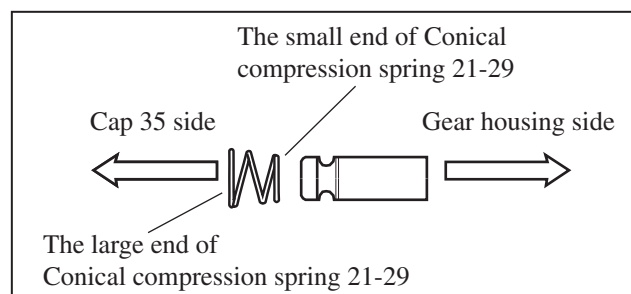
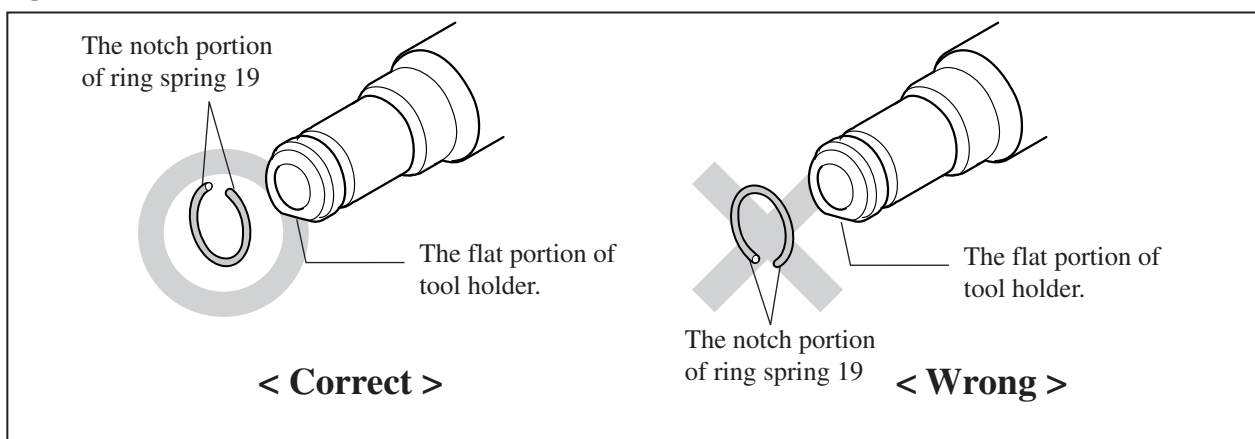


Fig. 4



► Repair

[3] -3. Disassembling Change Lever

See Fig. 5.

1. Separate cap from change lever with care while pressing the cap by fingers so as not to pop out the lock button and the compression spring 3 in the change lever.
2. Fully turn change lever in the direction of drill mode. Then, change lever can be pulled out of gear housing.

See Fig. 6.

Fig. 5

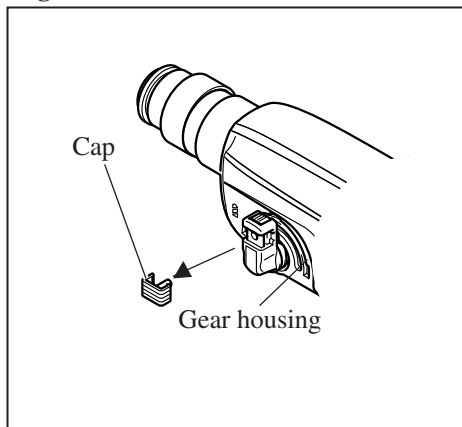
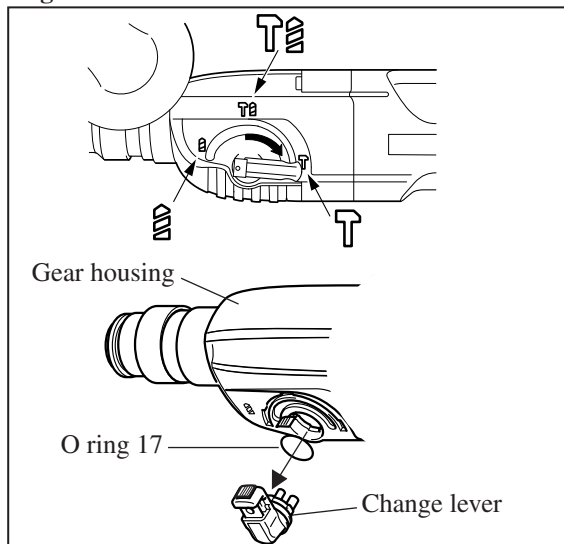


Fig. 6



[3] -4. Assembling Change Lever

1. Apply grease to the pin of change lever and O ring 17 referring to [2] LUBRICATION in page 5.
2. Mount compression spring 3 and lock button to change lever. Next, temporarily install cap into the position illustrated in Fig. 7 test the lock button and the compression spring should pop out. Do not forget to install O ring 17. See Fig. 6.
3. Insert the change lever in which compression spring 3 and lock button have been temporarily fixed with cap into the assembling hole of gear housing complete. See Fig. 8. The change lever can not be inserted completely in this stage.
4. While pressing the change lever, turn it in the direction of drill mode. Consequently, change lever can be inserted completely somewhere around area B. See Fig. 9.
5. If change lever can't be inserted completely in any position under the process described in the sentence 4, retry the same process while pressing lock button.
6. Next, turn the changer lever to the area C. Finally, install cap (which is temporarily fixed) completely in place.

Fig. 7

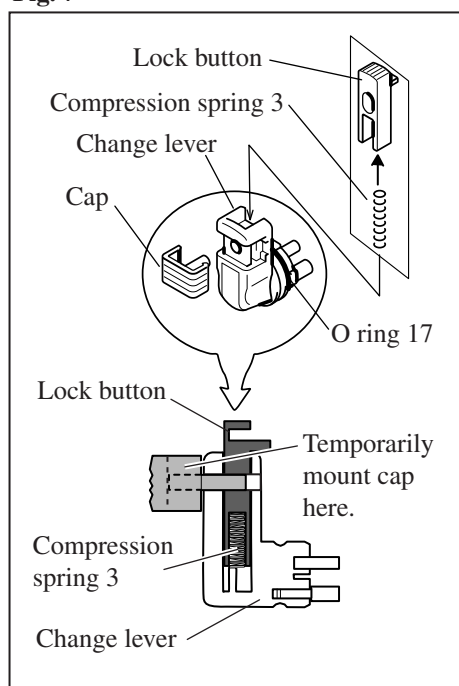


Fig. 8

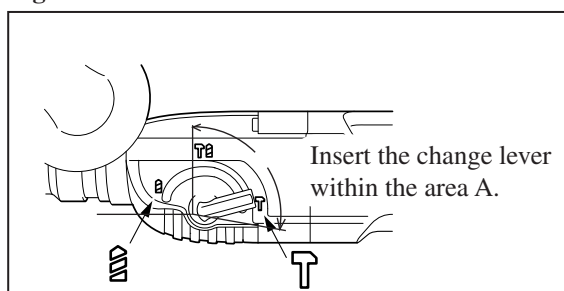
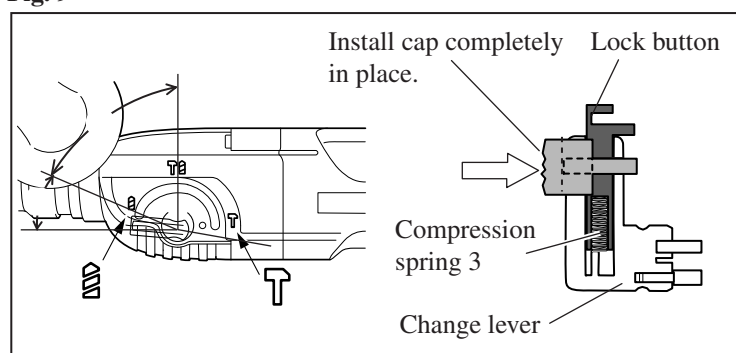


Fig. 9

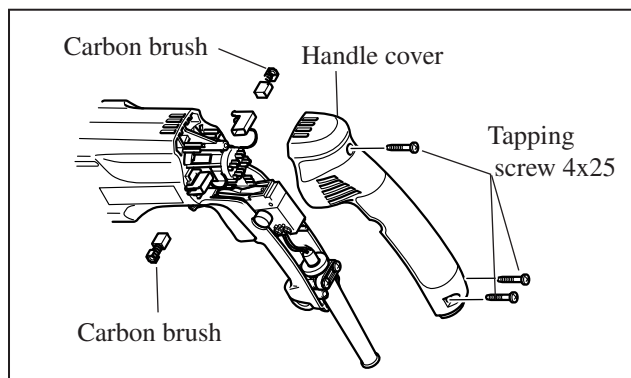


► Repair

[3] -5. Removing Armature

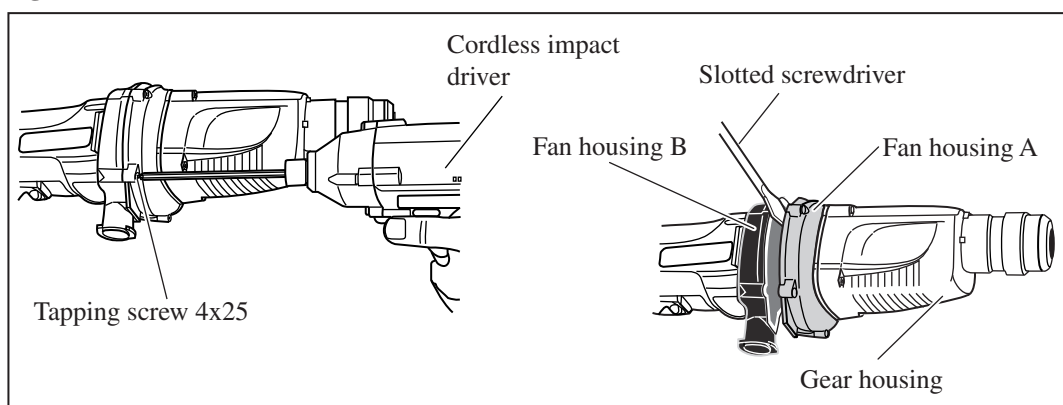
1. Remove carbon brush after removing handle cover as illustrated in **Fig.10**.

Fig. 10



2. Remove five 4x25 tapping screws using cordless impact driver etc. as **Fig. 11**.
Fan housing A with gear housing can be removed from fan housing B using slotted screwdriver.

Fig. 11



3. Remove four 4x18 tapping screws, and now fan housing B can be removed from motor housing. **See Fig. 12.**
4. Remove armature by striking the edge of motor housing using plastic hammer. **See Fig.13.**

Fig. 12

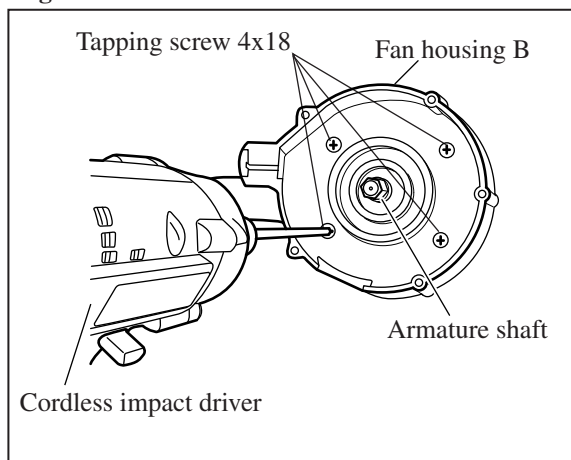
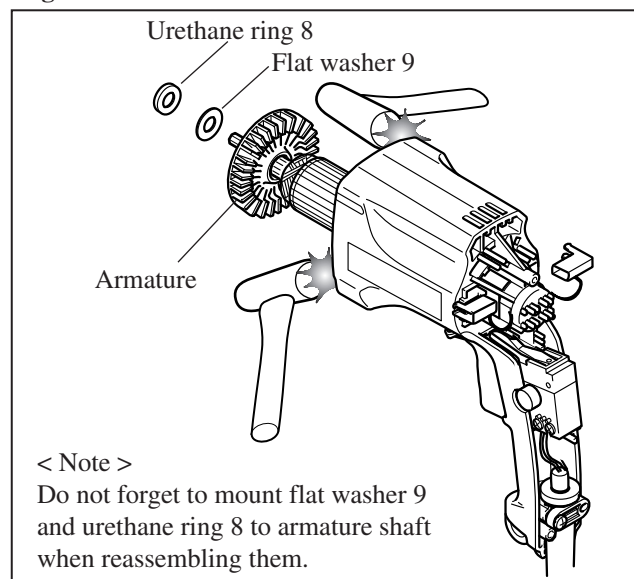


Fig. 13



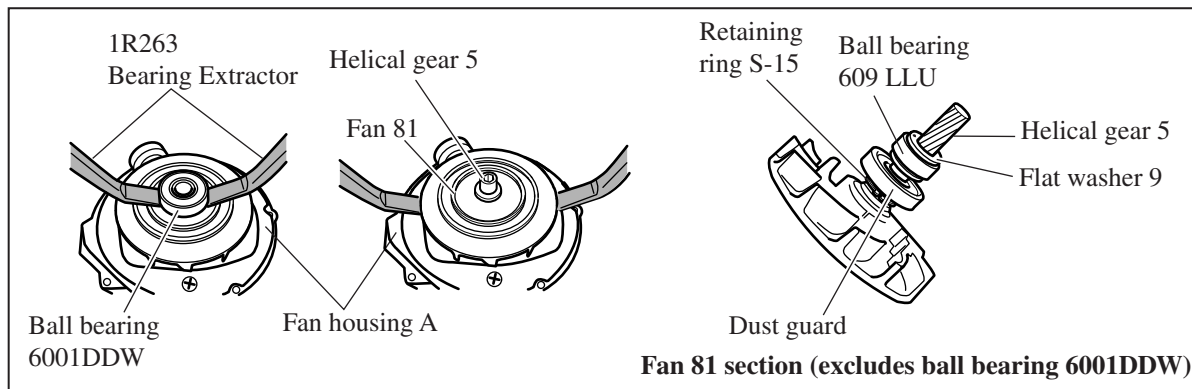
5. Remove ball bearing of commutator end using 1R269 "Bearing Extractor (small)", .

► Repair

[3] -6. Disassembling Dust Extracting Fan

1. Remove fan housing A from fan housing B. See Fig. 11.
2. Remove ball bearing 6001DDW using two pieces of 1R263 "Bearing Extractor". After that, Fan 81 and some parts can be removed from fan housing A in the same way. See Fig.14.

Fig. 14



3. Remove ball bearing 609LLU and flat washer 9 at a time using 1R269 "Bearing Extractor(small)" from fan 81 section. See Fig.15.
4. Remove retaining ring S-5 using 1R008 Tips for retaining ring pliers as Fig.16.
5. Remove dust guard and fan 81 at a time from helical gear 5 with arbor press. See Fig.17.

Fig. 15

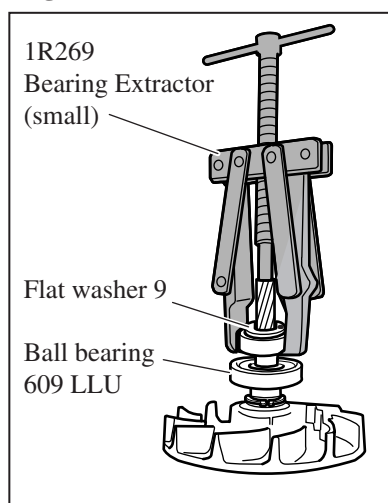


Fig. 16

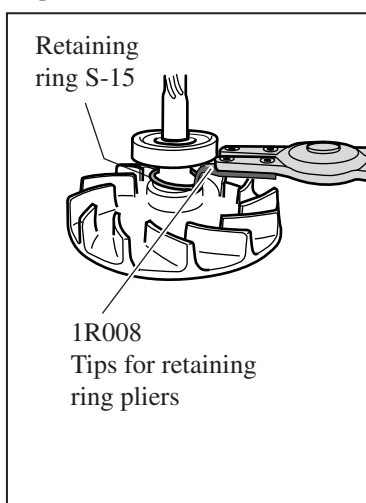
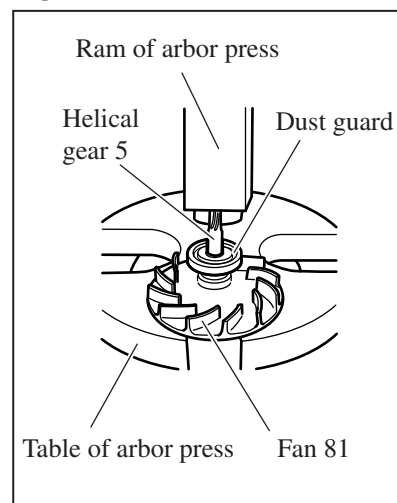


Fig. 17



< Note in Assembling >

1. Press helical gear 5 into the hole of fan 81 from the its flat side without fan blades and lock it with retaining ring S-15. See Fig.E-1.
2. Dust guard should face its grooved side toward ball bearing 609LLU when assembling them with arbor press. See Fig.E-2.

Fig.E-1

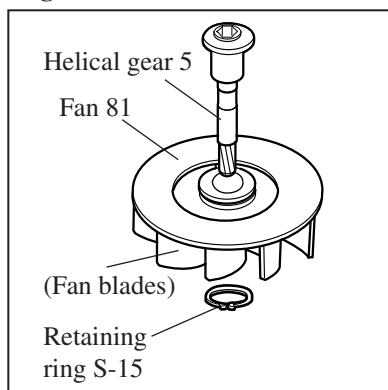
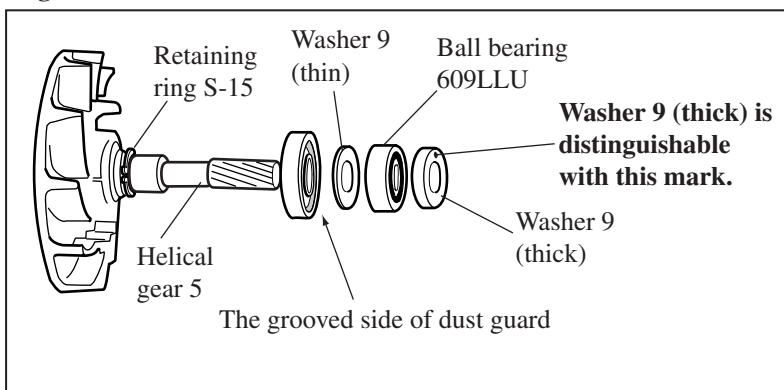


Fig.E-2

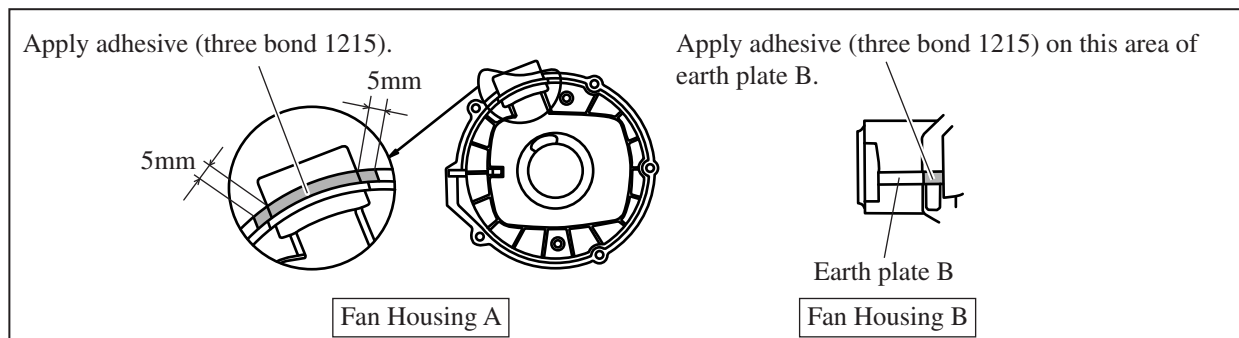


► Repair

[3] -7. Assembling Fan Housing

See **Fig. 18**. When mounting fan housing A to fan housing B, apply adhesive (three bond 1215) to the required positions with gray color in the illustrations.

Fig. 18



[3] -8. Disassembling Tool Holder Section

1. Disassemble change lever from gear housing as mentioned in [3] -3. **Disassembling Change Lever**.
2. Separate gear housing from motor housing.
3. Remove inner housing from gear housing as illustrated in **Fig. 19**.
4. Separate tool holder section from inner housing complete as illustrated in **Fig. 20**.

Pay attention not to lose flat washer 28 between tool holder section and inner housing complete.

Fig. 19

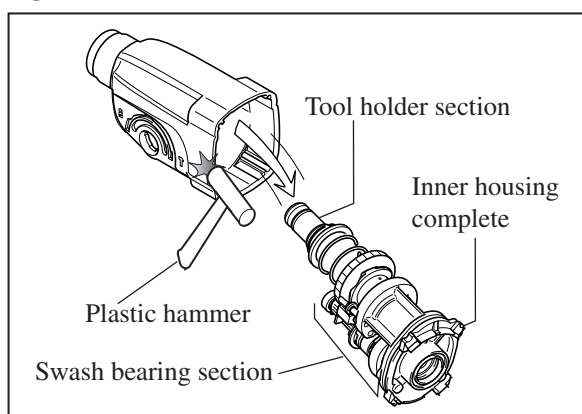
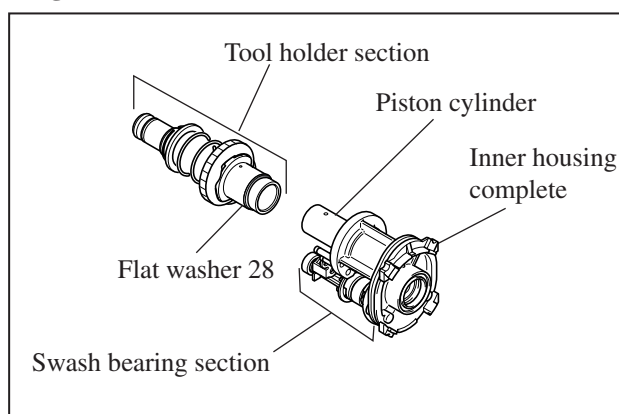


Fig. 20



6. Remove ring spring 28 with retaining ring plier, while pressing washer 30 down to the direction of the spur gear 51. **See Fig. 21**.
7. Disassemble washer 30, compression spring 31 and spur gear 51 from tool holder. **See Fig. 22**.

Fig. 21

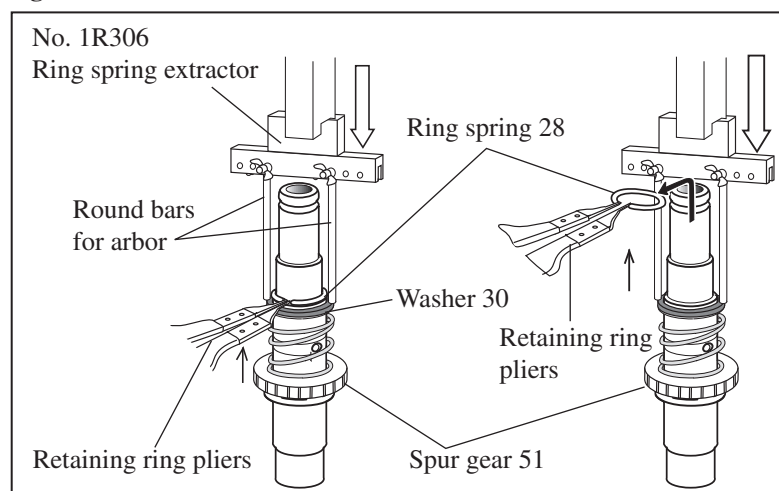
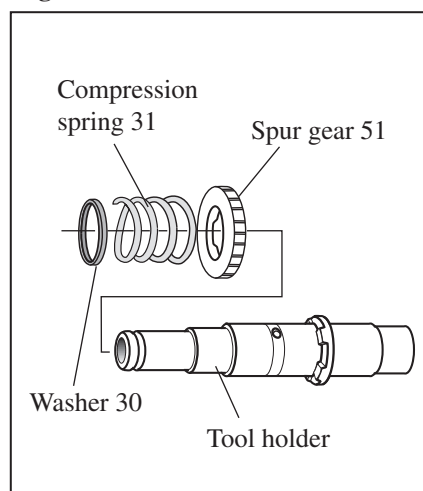


Fig. 22



► Repair

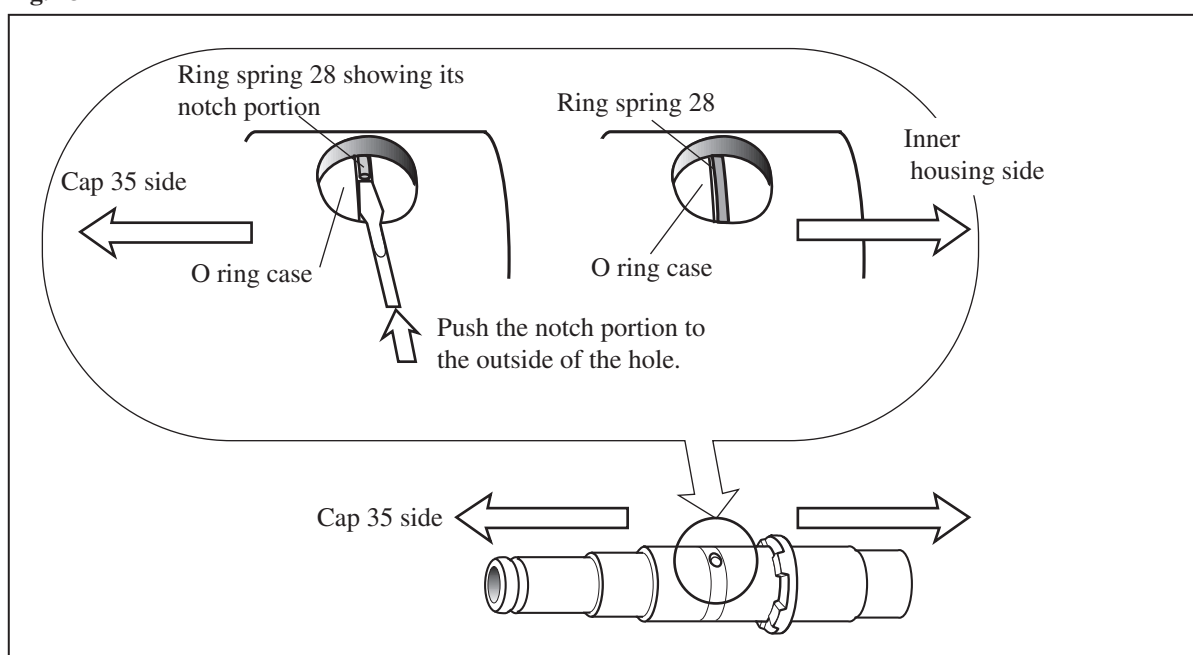
[3] -9. Assembling Tool Holder Section

1. Apply grease to spur gear 51 and tool holder referring to [2] LUBRICATION.
2. Assemble spur gear 51, compression spring 31 and washer 30 to tool holder. Refer to Fig. 22.
3. Pressing the washer 30 down to the direction of spur gear 51 with arbor press, mount ring spring 28. Refer to Fig. 21.
4. Mount flat washer 28. Refer to Fig. 20.
5. Insert piston cylinder of swash bearing section into tool holder. And assemble tool holder section by pressing into inner housing. Refer to Fig.19.

[3] -10. Disassembling Impact Bolt

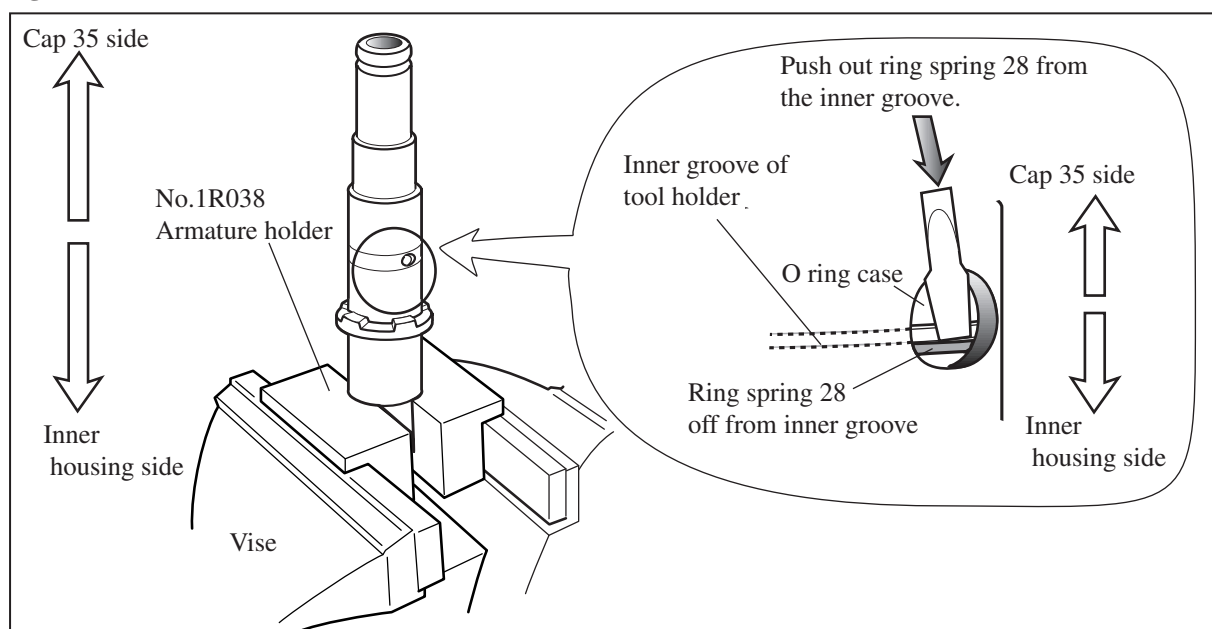
1. Referring to [3] -8. Disassembling Tool Holder Section , remove ring spring 28, washer 30, compression spring 31 and spur gear 51 from tool holder. See Fig. 21 and Fig.22.
2. Push the notch portion of ring spring 28 to the out side of the hole. See Fig.23.

Fig. 23



3. Hold tool holder with "No.1R038 Armature holder" and vise. Insert screwdriver between ring spring 28 and O ring case. and push out ring spring 28 from the inner groove as illustrated in Fig. 24.

Fig. 24



► Repair

[3] -10. Disassembling Impact Bolt

4. Insert "No.1R236 Round bar for arbor" and push ring spring 28 as deep as possible to the inner housing side by striking the round bar for arbor. **See Fig.25.**
5. Pick up ring spring 28 with plier and take it off from tool holder as illustrated in **Fig. 26.**
6. The following parts can be removed from tool holder. **See Fig.27.**
 - * O ring case equipped with O ring 9
 - * O ring 15
 - * Ring 9
 - * Impact bolt equipped with O ring 12
7. Clean the inside of tool holder neatly.

Fig. 25

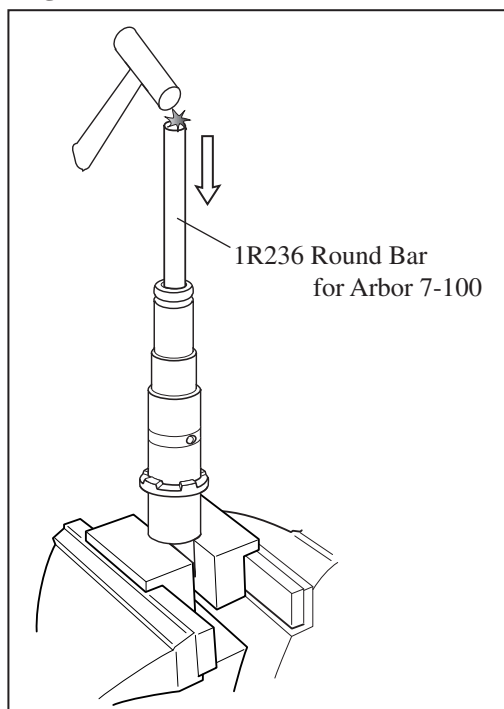


Fig. 26

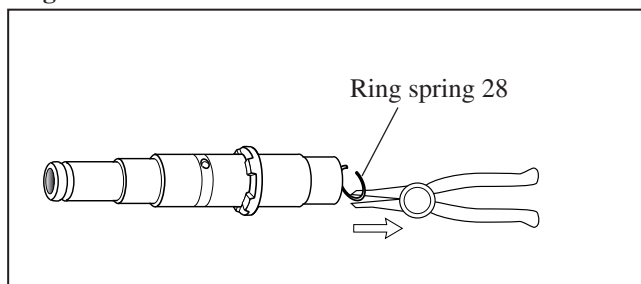
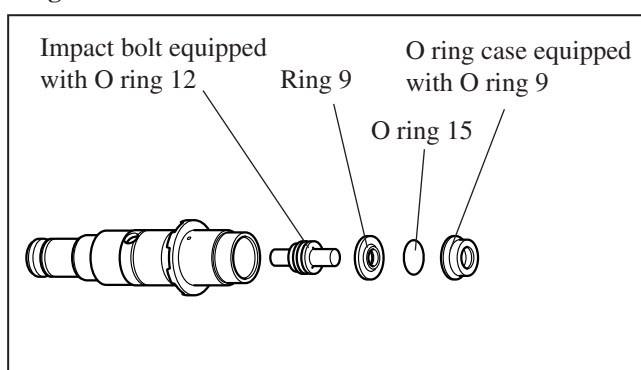


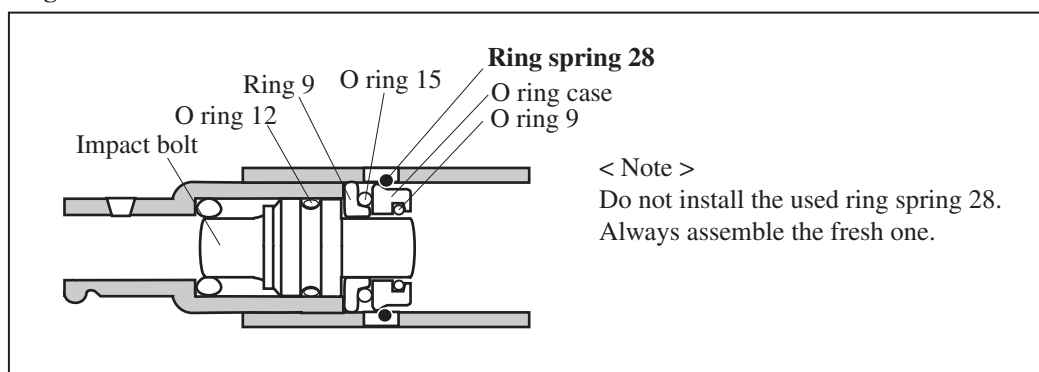
Fig. 27



[3] -11. Assembling Impact Bolt

1. Apply grease to the O rings referring to [2] LUBRICATION.
 - * O ring 9 for O ring case
 - * O ring 15
 - * O ring 12 for impact bolt
2. Insert impact bolt with O ring 12, ring 9, O ring 15 and O ring case with O ring 9 into tool holder. Refer to **Fig.27.**
3. Mount ring spring 28 to the inner groove of tool holder by pushing it with screwdriver. Ring spring 28 has to be mounted so that its notch portion does not face the tool holder's hole. See **Fig.28** and refer to **Fig.23.**

Fig. 28

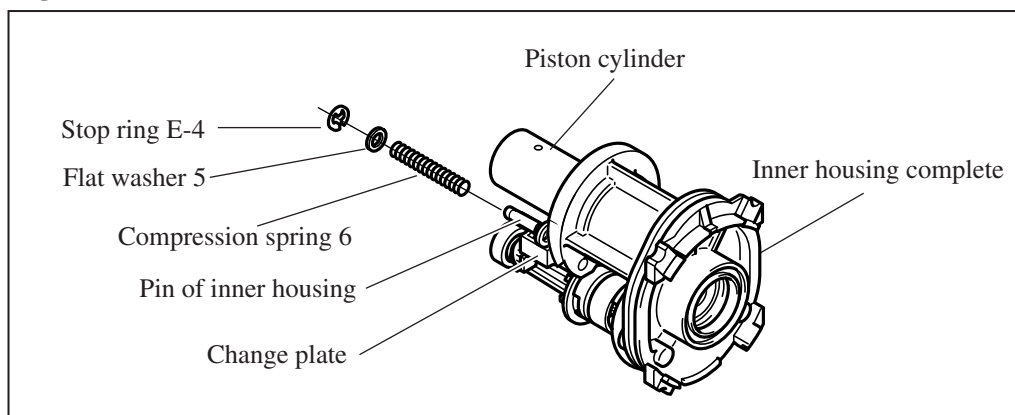


► Repair

[3] -12. Disassembling Swash Bearing Section

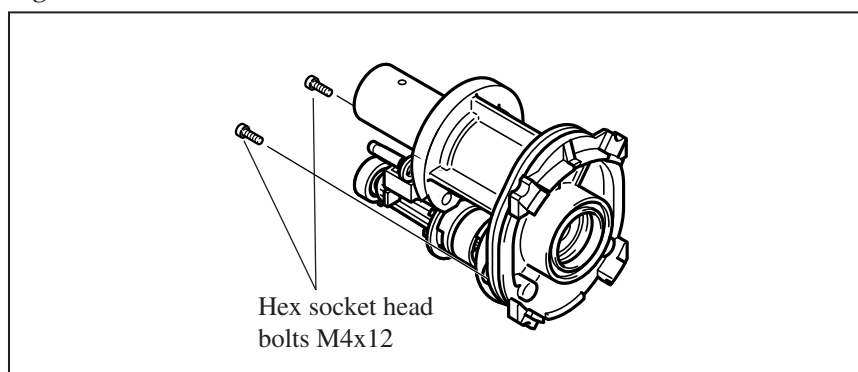
1. Remove tool holder section and swash bearing section. See **Fig.19 and Fig.20**.
2. Disassemble stop ring E-4, flat washer 5 and compression spring 6 with which change plate is fixed from the pin of inner housing complete. See **Fig.29**.

Fig. 29



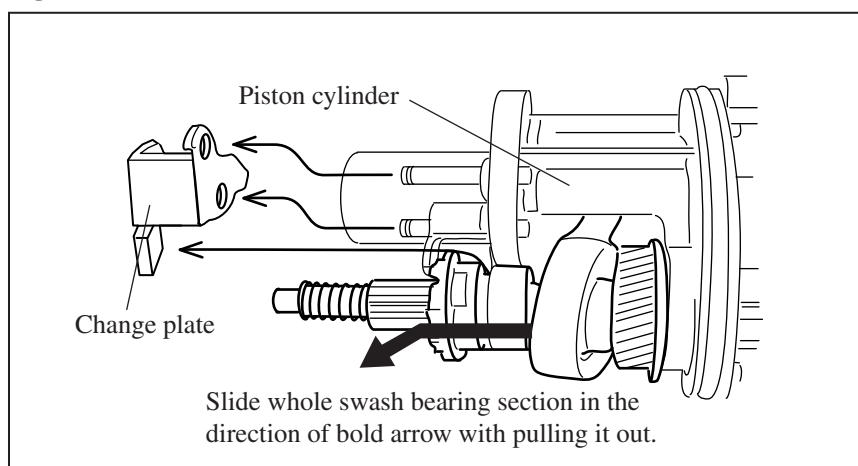
3. Swash bearing section is held in inner housing complete with bearing retainer which is fastened with 2 pcs. of hex socket head bolts M4x12. Take off these hex socket head bolts M4x12 for disassembling swash bearing section. See **Fig. 30**.

Fig. 30



4. Bring piston cylinder to the farthest point from the bit installation side. And then twist the the swash bearing section with pulling off them from inner housing complete. Finally swash bearing section and change plate can be disassembled from piston cylinder. See **Fig. 31**.

Fig. 31

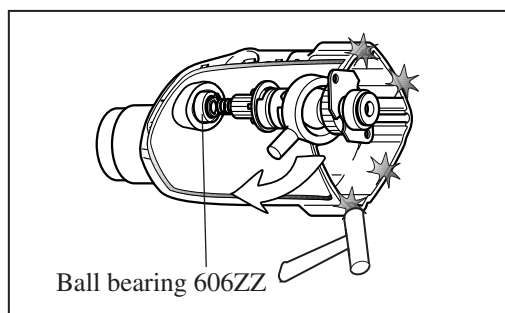


► Repair

[3] -12. Disassembling Swash Bearing Section

5. Remount swash bearing section temporarily to gear housing, and hold gear housing as illustrated in **Fig. 32**. So, swash bearing section tilts in the direction of arrow. Keeping the illustrated position, disassemble swash bearing section by striking the edge of gear housing with plastic hammer. So, ball bearing 606ZZ can be removed together with swash bearing section.

Fig. 32



6. Swash bearing section can not be disassembled in one action by pressing cam shaft with arbor press, because retaining ring S-7 is mounted between ball bearing 608ZZ and compression spring 7. Take the following steps for disassembling them.

1. Remove ring 8 by pressing with arbor press. See **Fig. 33**.
2. Remove ball bearing 608ZZ with bearing extractor. See **Fig. 34**.
3. Flat washer 8 and bearing retainer can be removed. See **Fig. 35**.
4. Remove helical gear 26 by pressing with arbor press. See **Fig. 36**.

Fig. 33

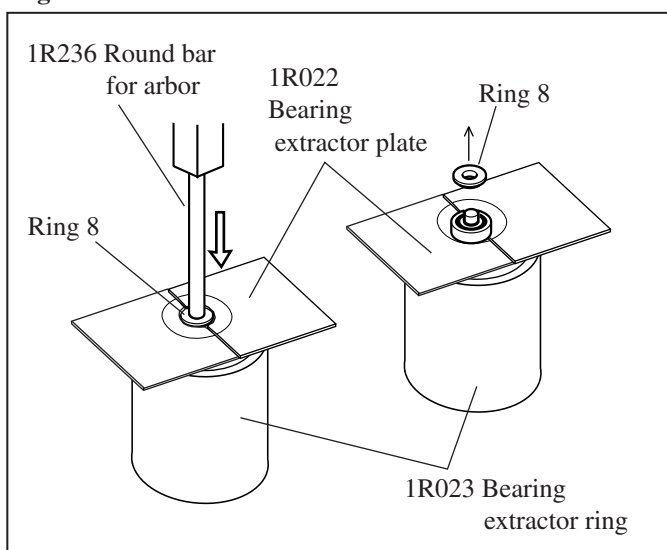


Fig. 34

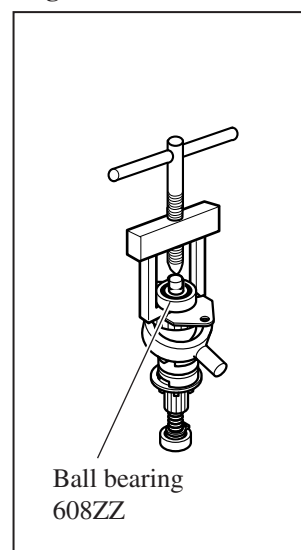


Fig. 35

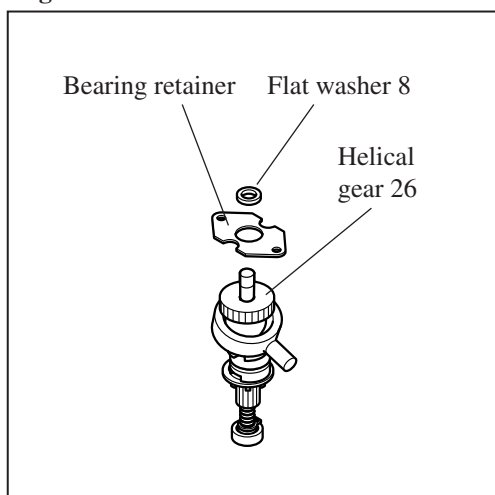
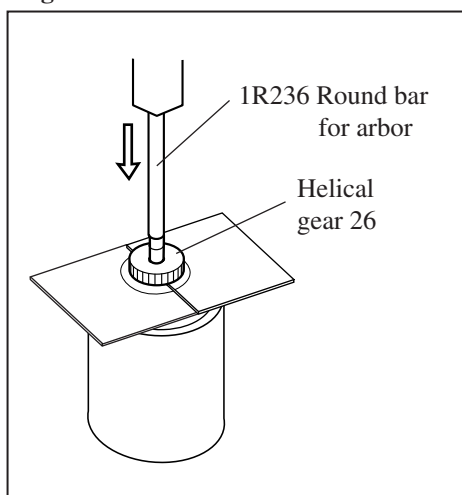


Fig. 36



► Repair

[3] -12. Disassembling Swash Bearing Section

5. Disassemble swash bearing 10 and clutch cam. And disassemble ball bearing 606ZZ with bearing extractor as illustrated in **Fig. 37A**.
6. Disassemble retaining ring S-7 with retaining ring plier as illustrated in **Fig. 37B**.
7. Separated compression spring 7 and spur gear 10 from cam shaft as illustrated in **Fig. 37C**.

Fig. 37A

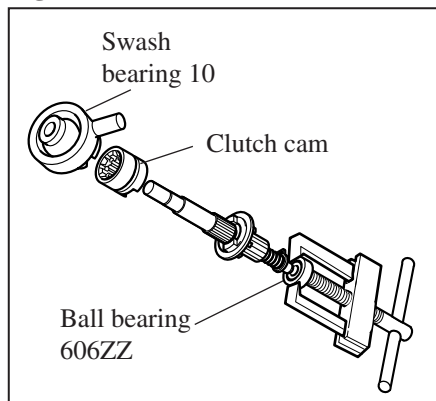


Fig. 37B

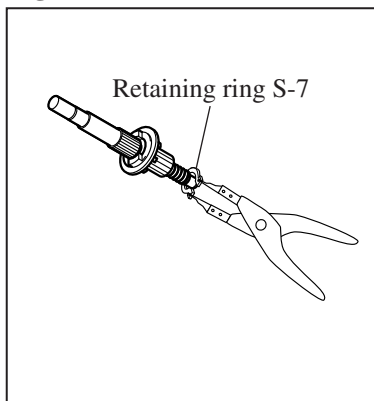
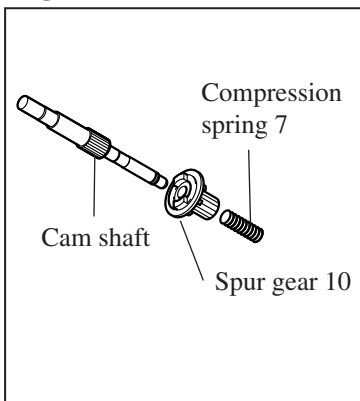


Fig. 37C



[3] -13. Assembling Swash Bearing Section

1. Apply grease to the parts of swash bearing section referring to [2] LUBRICATION.
2. Mount swash bearing 10 by pressing cam shaft with arbor press. See **Fig. 38A**.
3. Assemble helical gear 26 by pressing cam shaft with arbor press. See **Fig. 38B**.
4. Assemble flat washer 8, bearing retainer and ball bearing 608ZZ by pressing cam shaft with arbor press. See **Fig. 38C**.
5. Assemble ring 8 by pressing cam shaft with arbor press. See **Fig. 38D**.

Fig. 38A

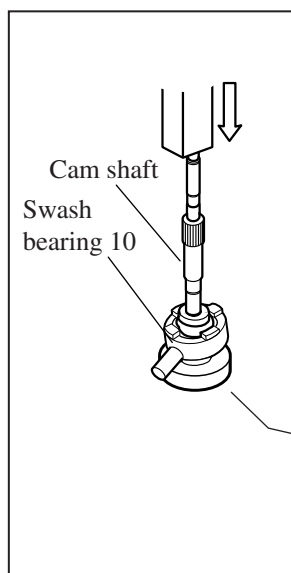


Fig. 38B

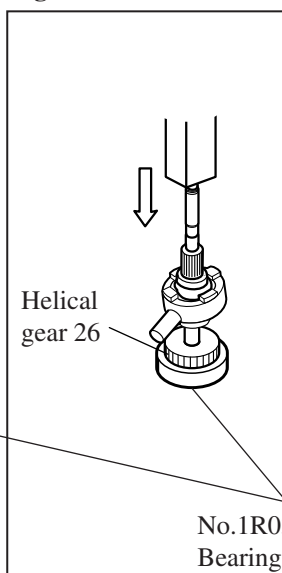


Fig. 38C

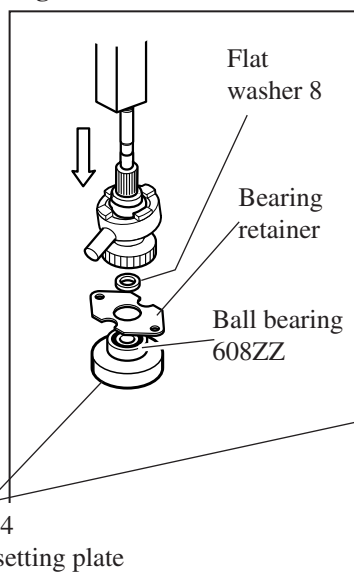
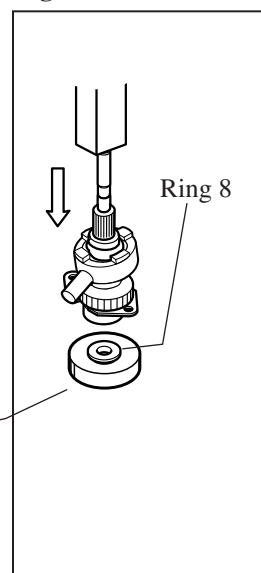


Fig. 38D



No.1R034
Bearing setting plate

► Repair

[3] -14. Mounting Swash Bearing Section to Piston Cylinder

1. Apply Makita grease to piston cylinder and swash bearing 10 referring to < 1 > **Lubrication** in page 5.
2. Assemble 2 pcs. of flat washers 12 and piston joint to piston cylinder. See **Fig. 39A**.
3. Insert the above piston cylinder into inner housing complete. See **Fig. 39B**.
4. Bringing piston cylinder to the farthest point from bit installation side, assemble swash bearing 10 to piston cylinder by inserting its pole into the hole of piston joint. See **Fig. 39C**.
5. Fasten bearing retainer which has been assembled to swash bearing section, with adhesive hex socket head bolt M4x12 onto inner housing complete. See **Fig. 39D**.

<Note> Do not reassemble the swash bearing section with the used hex socket head bolt M4x12. Always use the fresh adhesive hex socket head bolt M4x12.

Fig. 39A

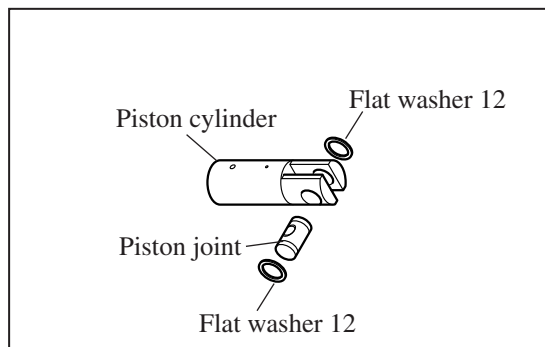


Fig. 39B

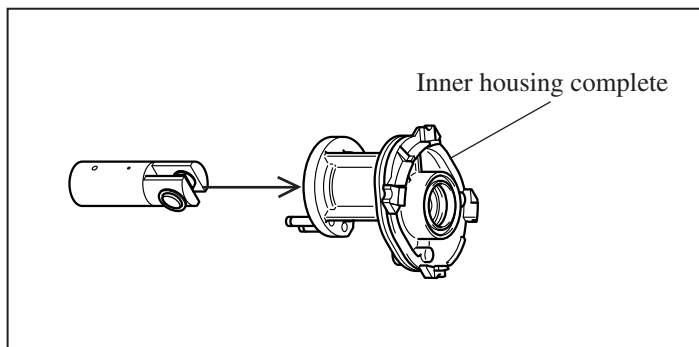


Fig. 39C

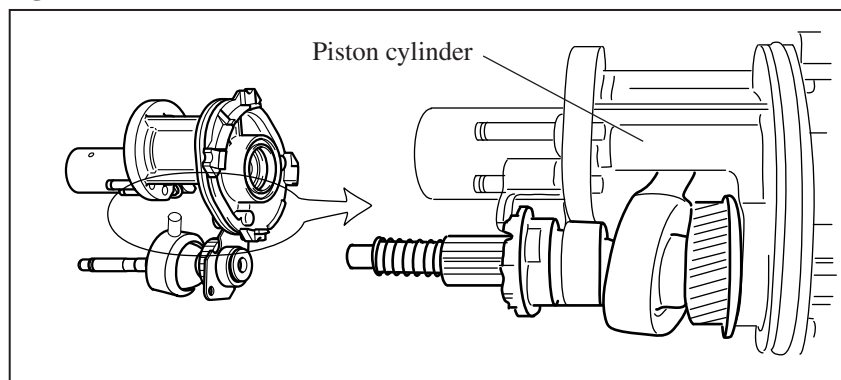
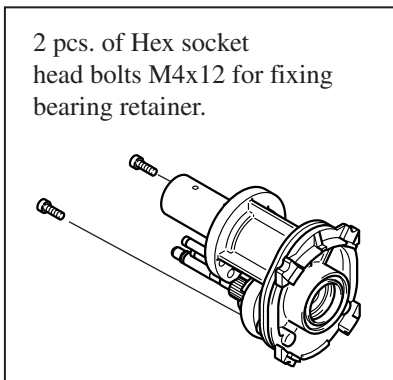


Fig. 39D



6. Set change plate in the groove of clutch cam, and assemble the clutch cam with change plate to cam shaft. See **Fig. 39E**.
7. Assemble spur gear 10 to cam shaft. See **Fig. 39F**.

Fig. 39E

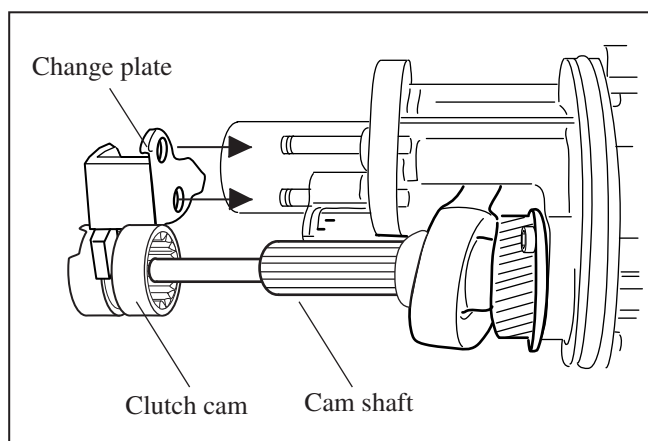
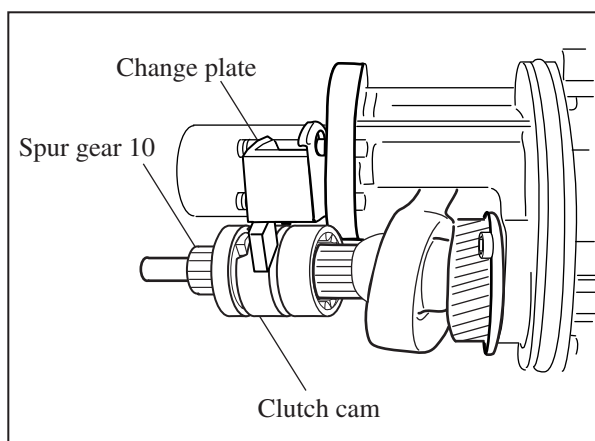


Fig. 39F



► Repair

[3] -14. Mounting Swash Bearing Section to Piston Cylinder

8. Assemble compression spring 7 to cam shaft, and secure the parts to cam shaft with retaining ring S-7.
See **Fig. 39G**.
9. Assemble compression spring 6 and flat washer 5 to the pin of inner housing. And fix them with stop ring E-5.
See **Fig. 39H**.
10. Apply 55g of MAKITA grease RA No.1 in gear housing.

Fig. 39G

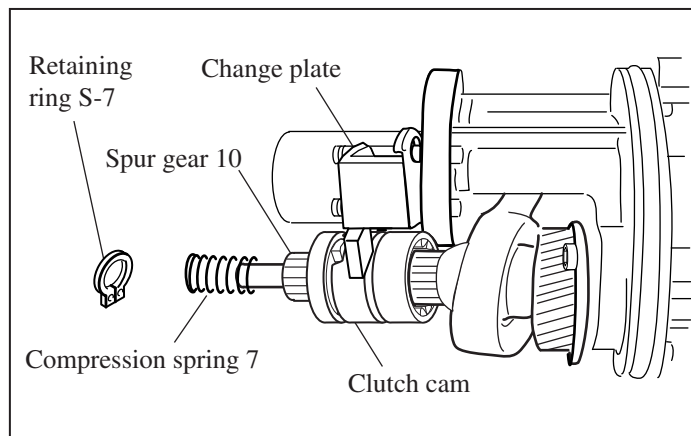
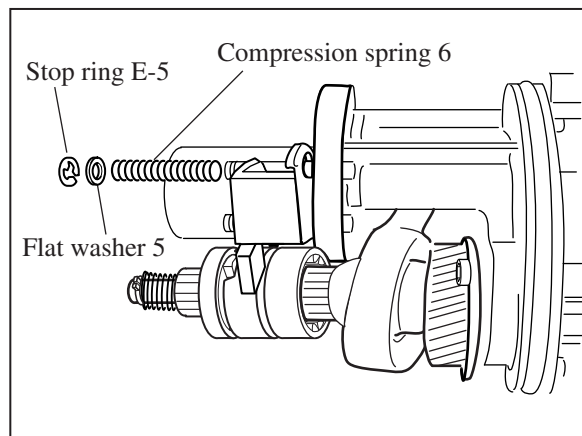


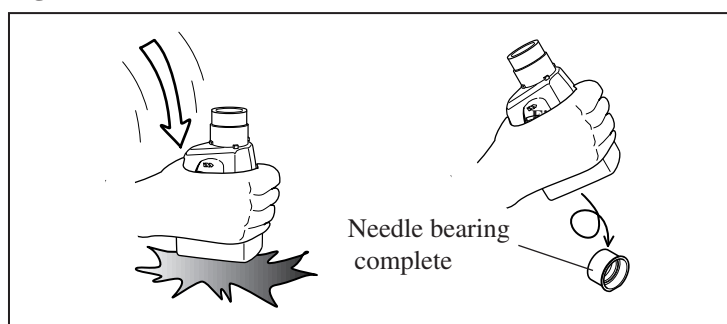
Fig. 39H



[3] -15. Removing Needle Bearing Complete

Strike the work table with gear housing. Then needle bearing complete can be disassembled from gear housing.
See **Fig. 40**.

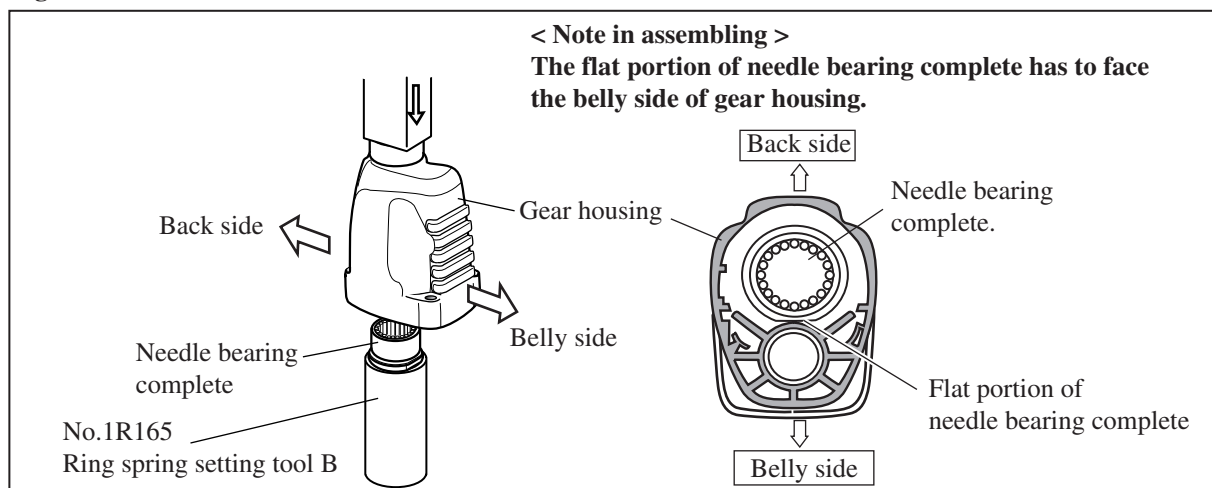
Fig.40



[3] -16. Mounting Needle Bearing Complete

1. Apply MAKITA grease RA No.1 to the inside of needle bearing complete.
2. Putting needle bearing complete on No.1R165 "Ring spring setting tool B", press gear housing onto the needle bearing complete with arbor press. See **Fig.41**.

Fig.41

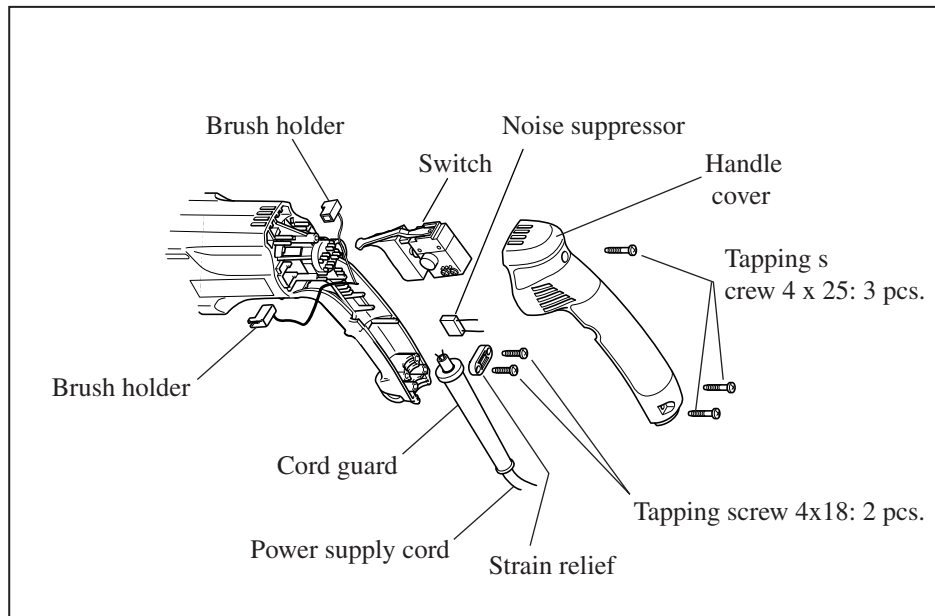


► Repair

[3] -17. Replacing Electrical Parts in Handle

Remove handle cover by unscrewing three 4x25 tapping screws, and remove strain relief by unscrewing two 4x18 tapping screws. **See Fig.42.**
Switch, noise suppressor, power supply cord, etc. can be replaced.

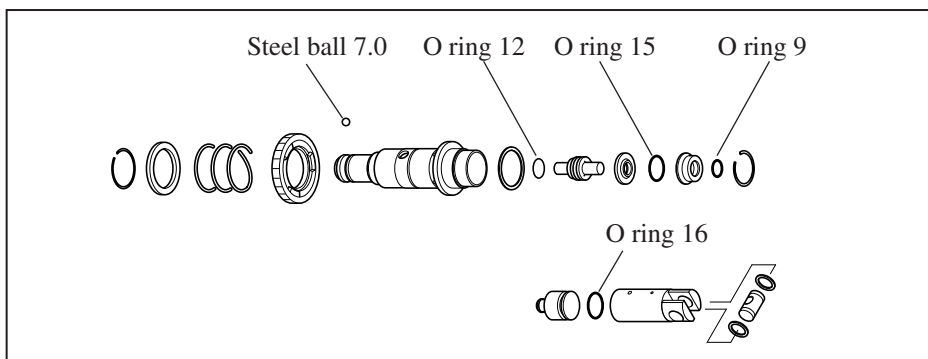
Fig. 42



[4] Maintenance

It is recommended to change the following parts, when replacing carbon brushes. **See Fig. 43.**

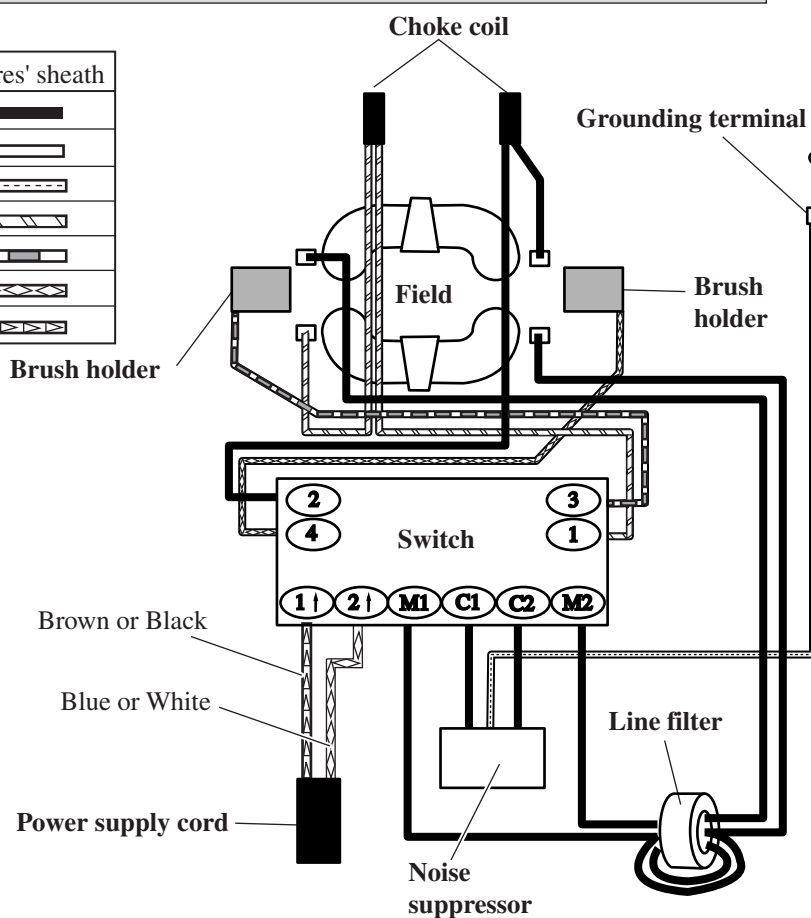
Fig. 43



► Circuit diagram

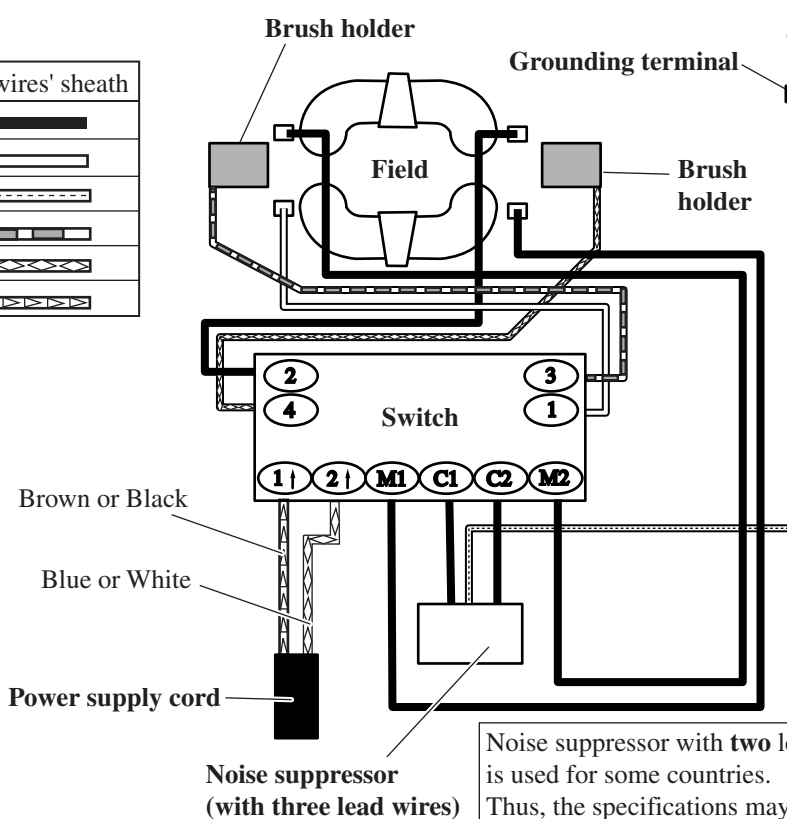
For 220V-240V area where regulates radio interference suppression

Color index of lead wires' sheath	
Black	
White	
Clear	
Orange	
Red	
Blue	
Brown	



For other countries

Color index of lead wires' sheath	
Black	
White	
Clear	
Red	
Blue	
Brown	



Noise suppressor with **two** lead wires is used for some countries. Thus, the specifications may vary from country to country. (Regarding some countries, noise suppressor is not used for this model.)

► Wiring diagram

For 220V-240V voltage area where regulates radio interference suppression

Wind line filter with two field lead wires. See **Fig.A**. And put the line filter in the position illustrated in **Fig.B**.

Fig.A

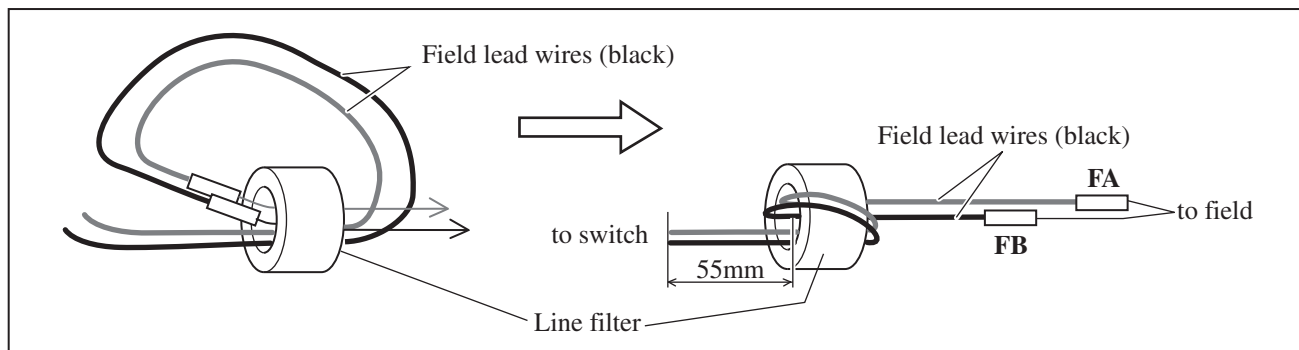
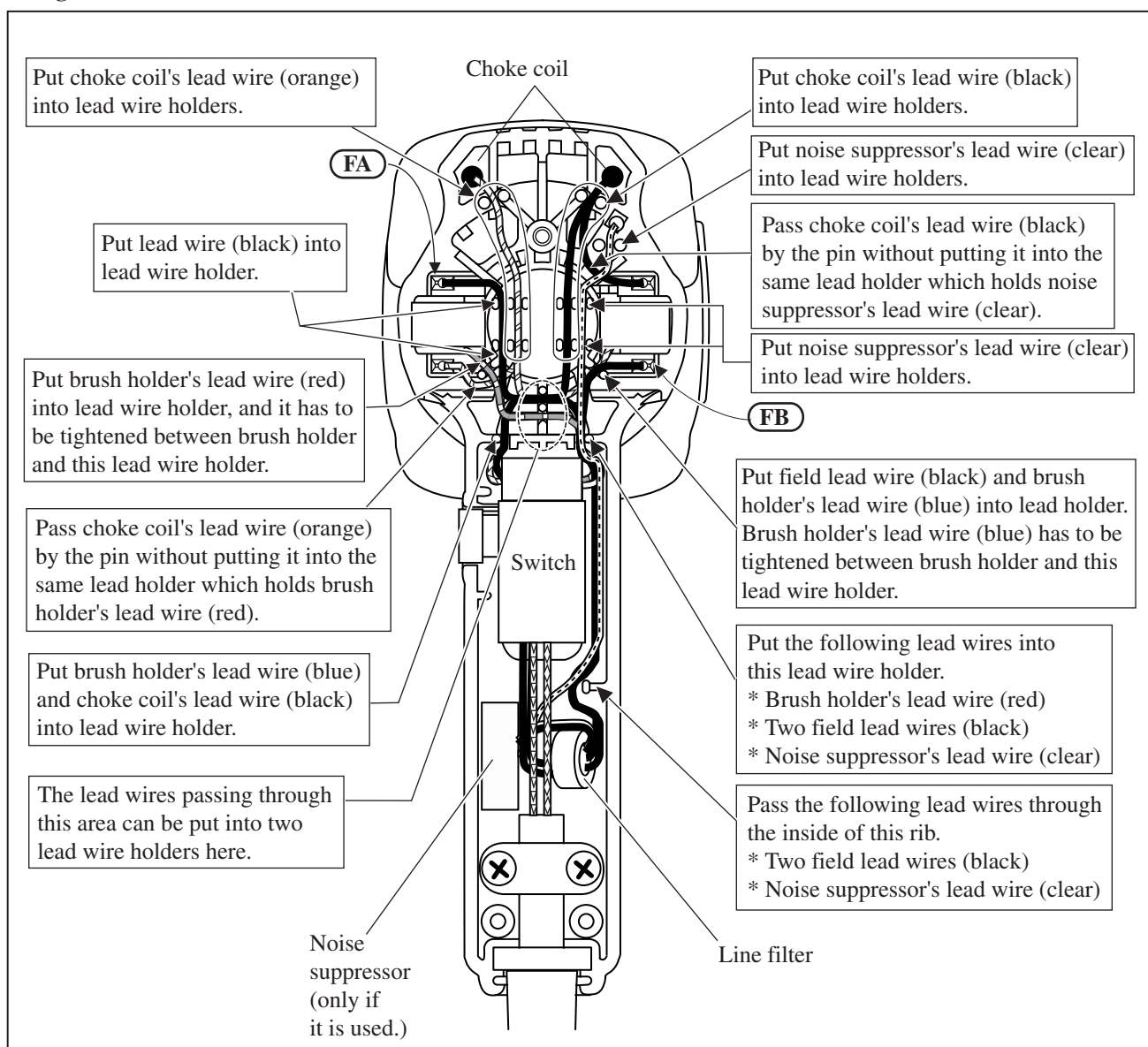


Fig.B



► Wiring diagram

For other countries

Fig.C

