

T ECHNICAL INFORMATION

March 2016

Model No. ▶ M5802

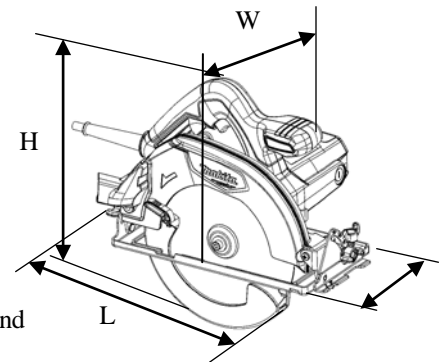
Description ▶ 185(7-1/4")mm / 190(7-1/2") Circular Saw

CONCEPT AND MAIN APPLICATIONS

Models M5802 is 185mm (7-1/4") Circular Saw and has been developed as Makita-mt-series.

Its main features are:

- New appearance; Features the same design concept as maktec/SSP-Makita brand series; however, the logo has been replaced by "Makita-mt-" for new series development.
- Orange housing
- Industrial performance and durability at less expense
- Ergonomically designed handle with Soft grip
- In compliance with the regulations of the EC directives



Dimensions: mm (")	
Length (L)	297 (11-3/4)
Width (W)	232 (9-1/8)
	132 (5-3/16)
Height (H)	255 (10)

▶ Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max Output (W)
			Input	Output	
110	10	50/60	1,050	650	1,300
120	8.5	50/60	---	570	1,300
220	5.0	50/60	1,050	650	1,300
230	4.8	50/60	1,050	650	1,300
240	4.6	50/60	1,050	650	1,300

Specification		Model	Makita-mt- M5802
Saw blade	Type		TCT saw blade
	Number of teeth		12 *1
	Diameter mm (")		185 (7-1/4) *2
	Hole diameter mm (")		30 (1-3/16) *3
Continuous rating input (W)			1,050
Bevel angle : degree (°)			0-45
Maximum cutting capacity	0 degrees mm (")		68(2-11/16")/66(2-5/8")
	45 degrees mm (")		46(1-13/16")/44(1-3/4")
Power supply cord : m (ft)			2.0(6.6ft)
Dimensions (L x W x H) mm(")			297x232x255 (11-3/4" x9-1/8" x10")
Weight according to EPTA-Procedure 01/ ver.2.1: kg(lbs)*4			4.0(8.8lbs)

*1 12 for European countries, 24 for Gulf countries, 40 for Asian countries

*2 190mm for European and Gulf countries, 185mm (7-1/4") for Asian countries

*3 30mm for European countries, 20mm for Gulf and Asian countries

*4 Weight with Dust nozzle and TCT saw blade

▶ Standard equipment

Guide rule 1 pc
Hex wrench 5 1 pc
Dust nozzle 1 pc (for European countries only)
TCT saw blade 1 pc

Note: The standard equipment may vary by country or model variation.

▶ Optional accessories

Dust nozzle with M5x 14WR P.H.screw..... 1 pc

► Repair

CAUTION: Repair the machine in accordance with “Instruction manual” or “Safety instructions”.

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[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R003	RETAINING RING PLIERS ST-2N	Removing Retaining ring S-38 from Bearing box
1R032	BEARING SETTING PLATE 8.2	Removing Spindle from Helical gear 38
1R217	RING 22	Supporting Bearing box, when disassembling Gear section
1R269	BEARING EXTRACTOR	Removing Ball bearings
1R280	ROUND BAR FOR ARBOR 6-50	Removing Spindle from Helical gear 38
1R291	RETAINING RING S AND R PLIERS	Removing / Assembling Retaining ring S-12
1R340	BEARING RETAINER WRENCH	Removing / Assembling Bearing retainer 19-33

[2] LUBRICATION

Apply the following kinds of lubricant to the parts.

Makita grease FA. No.2 to the parts designated with **black triangle** to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Symbol of lubricant	Amount
(20)	Blade case complete	Gear room	►	Approx. 5 g
(20a)	O ring 26 mounted in (20)	Whole portion	►	a little

Fig. 1

Helical gear 38

Reverse side view of (20)

Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -1. Base

DISASSEMBLING

(1) Remove saw blade in accordance with the instruction manual. First, remove M8x24 Flat headsquare neck bolt on Depth guide side, as shown in **Fig. 2**.

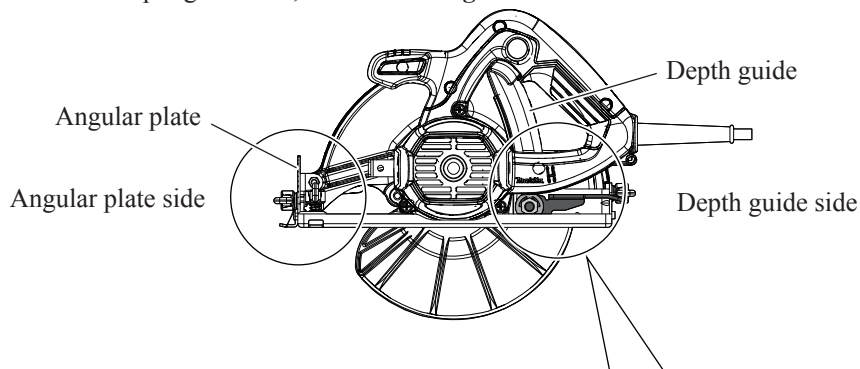
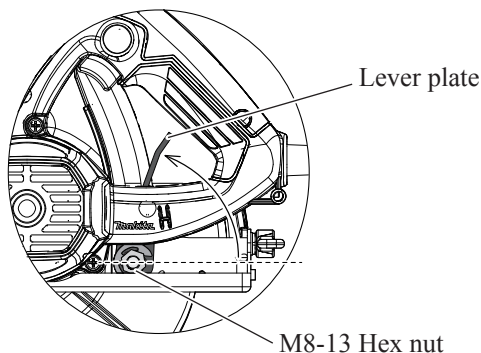
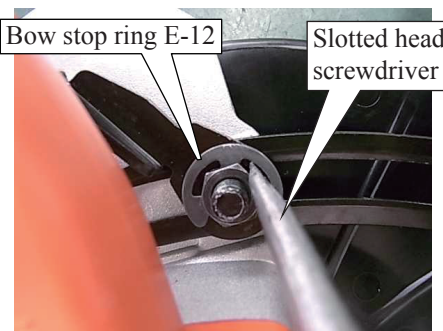


Fig. 2

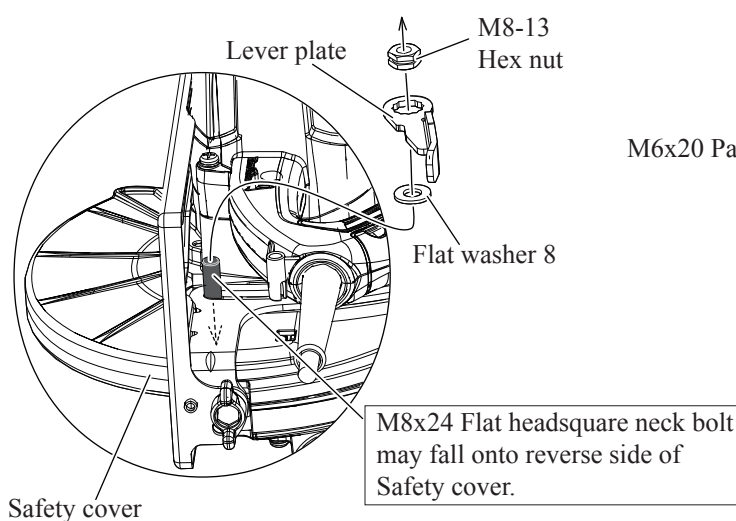
1. Loosen M8-13 Hex nut, by turning Lever plate. See the illustration below.



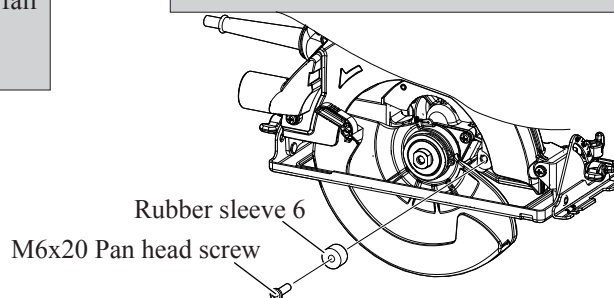
2. Remove Bow stop ring E-12 by turning it with slotted head screwdriver. See the photograph below.



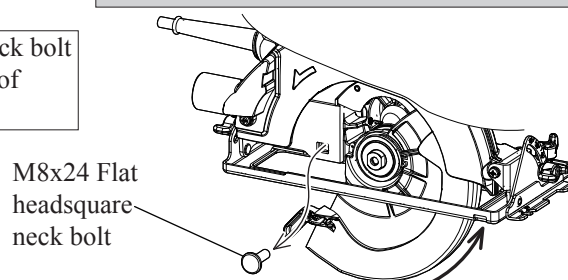
3. Remove M8-13 Hex nut, and then, remove Flat washer 8. Consequently, M8x24 Flat headsquare neck bolt may fall onto reverse side of Safety cover. See the illustration **below**.



4. Remove Rubber sleeve 6, unscrewing one M6x20 Pan head screw.



5. Now Safety cover swing toward Angular plate side. And M8x24 Flat headsquare neck bolt can be removed. Now, Base section is free from the machine on the depth guide side.



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3] -1. Base

DISASSEMBLING

(2) Remove M5 Pan head screw on Angular plate side as shown in **Fig. 3**.

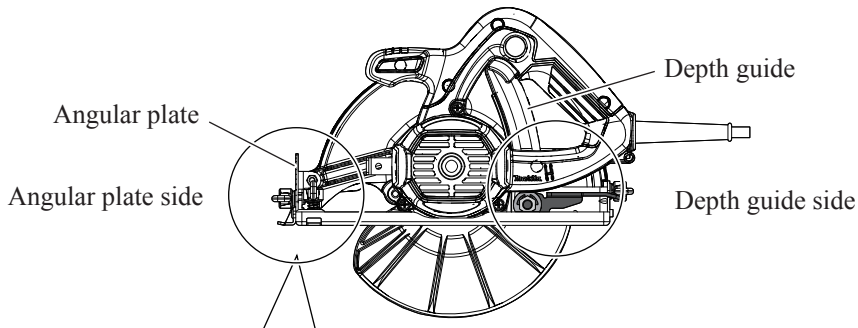


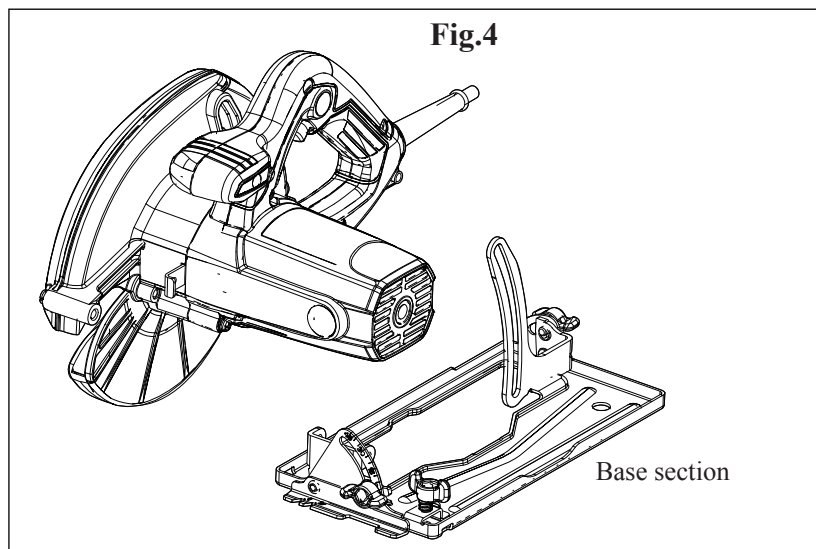
Fig.3

1. Fixing M5 Hex nut with Wrench 8, unscrew M5 Pan head screw.

2. Remove M5 Pan head screw and M5 Hex nut, while paying attention not to lose Spring washer 5.

3. Now, Base section is free from the machine both on Depth guide side and Angular plate side in this step.

(3) Base section is removed from the machine, as shown in **Fig. 4**.



► Repair

[3] DISASSEMBLY/ASSEMBLY

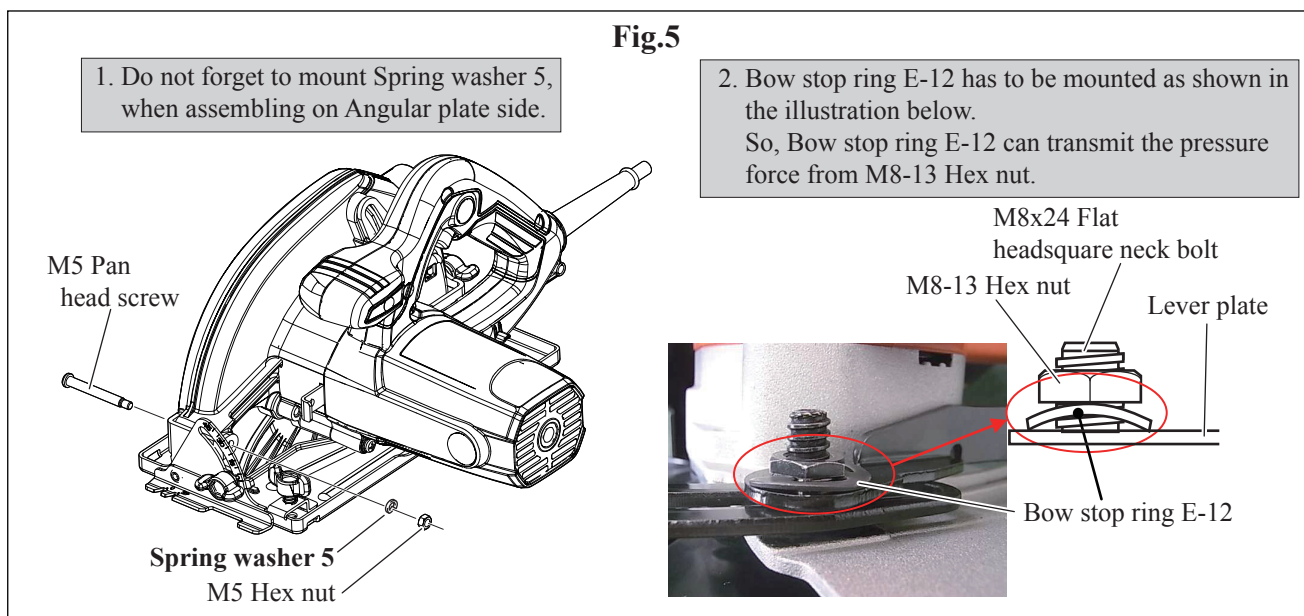
[3] -1. Base

ASSEMBLING

(1) Assemble Base by taking reverse step of Disassembling. Refer to **Fig. 4, Fig. 3, Fig. 2.**

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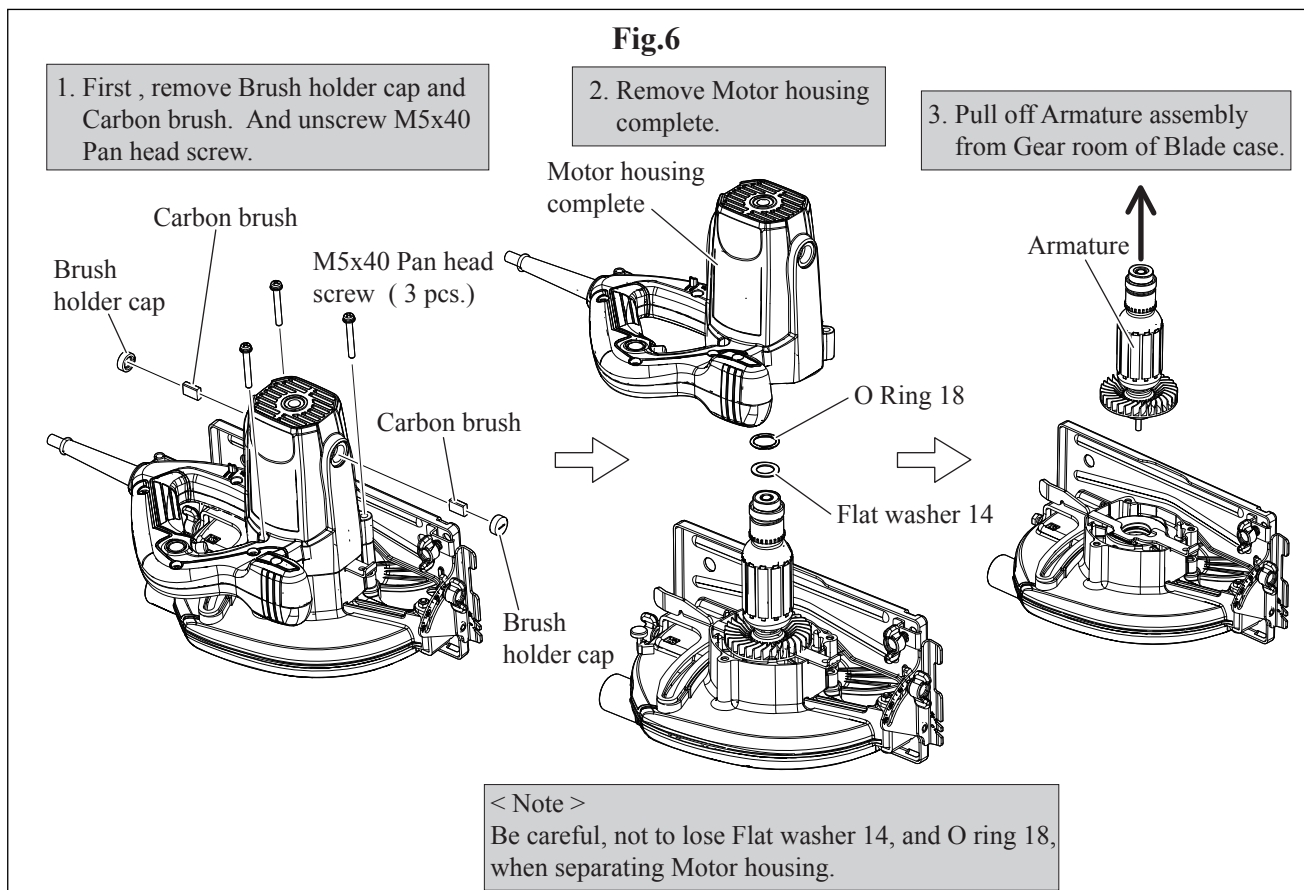
Pay attention to the matters in **Fig. 5**, when assembling Base.



[3] -2-a Armature

DISASSEMBLING

(1) Take out Armature as shown in **Fig. 6.**



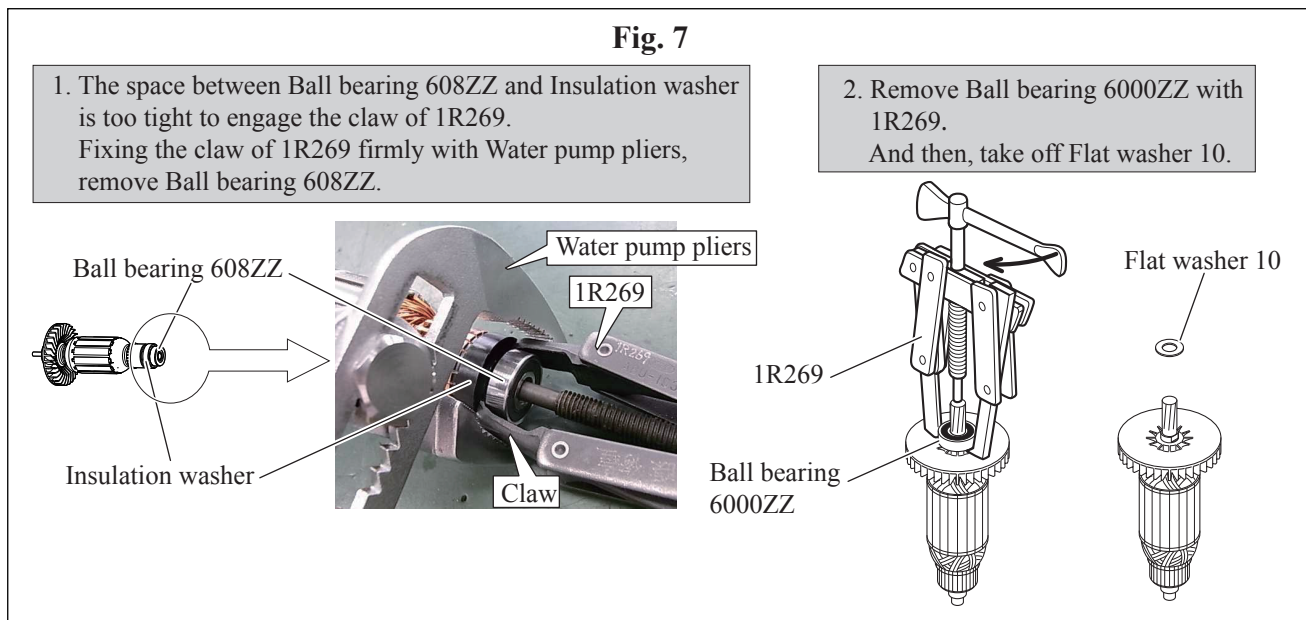
► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2-a Armature

DISASSEMBLING

(2) Remove Ball bearings from the Armature as shown in **Fig. 7**.



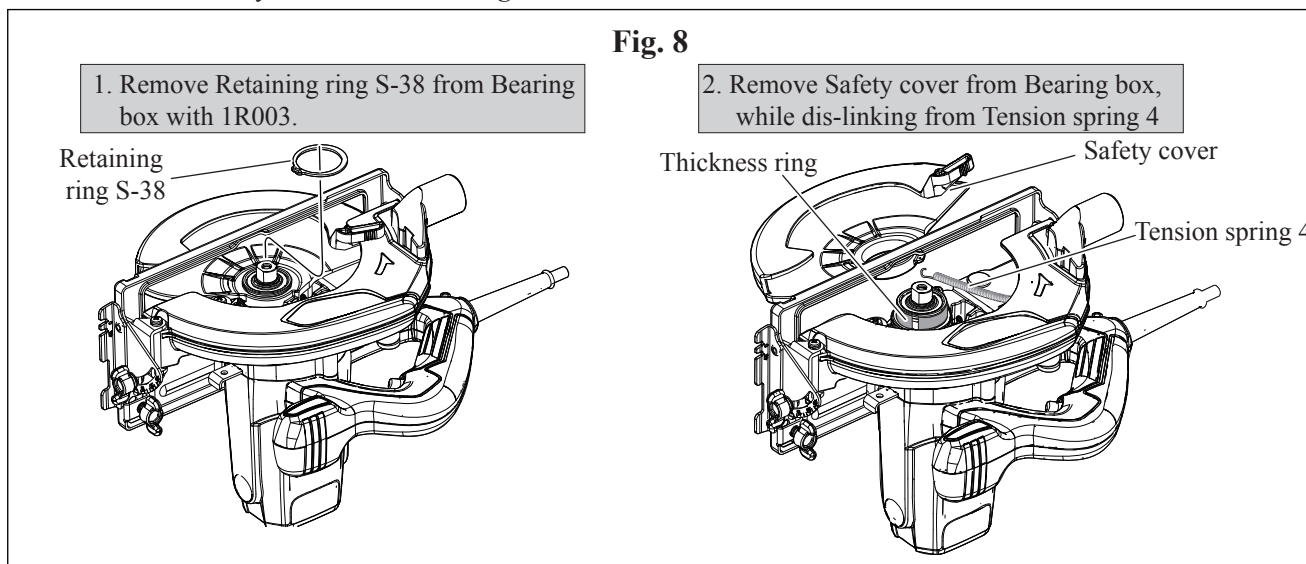
ASSEMBLING

- (1) Mount Flat washer 10 to the drive end of Armature. And assemble Ball bearing 6000ZZ to the same end of Armature. Refer to the **right** illustration in **Fig. 7**.
- (2) Mount Insulation washer and Ball bearing 608ZZ to the commutator end of Armature. Refer to the **left photograph** in **Fig. 7**.
- (3) Mount Armature to Blade case. Make sure that Shaft lock is mounted to the Blade case. Refer to the **right** illustration in **Fig. 6**.
- (4) Putting O ring 18 and Flat washer 14 into Bearing box section of Motor housing complete, assemble Motor housing complete. Refer to **center** illustration in **Fig. 6**.
- (5) Secure Motor housing complete with three M5x40 Pan head screws. And mount Carbon brush and Brush holder cap. Refer to **left** illustration in **Fig. 6**.

[3] -2-b Safety cover

DISASSEMBLING

Disassemble Safety cover as shown in **Fig. 8**.



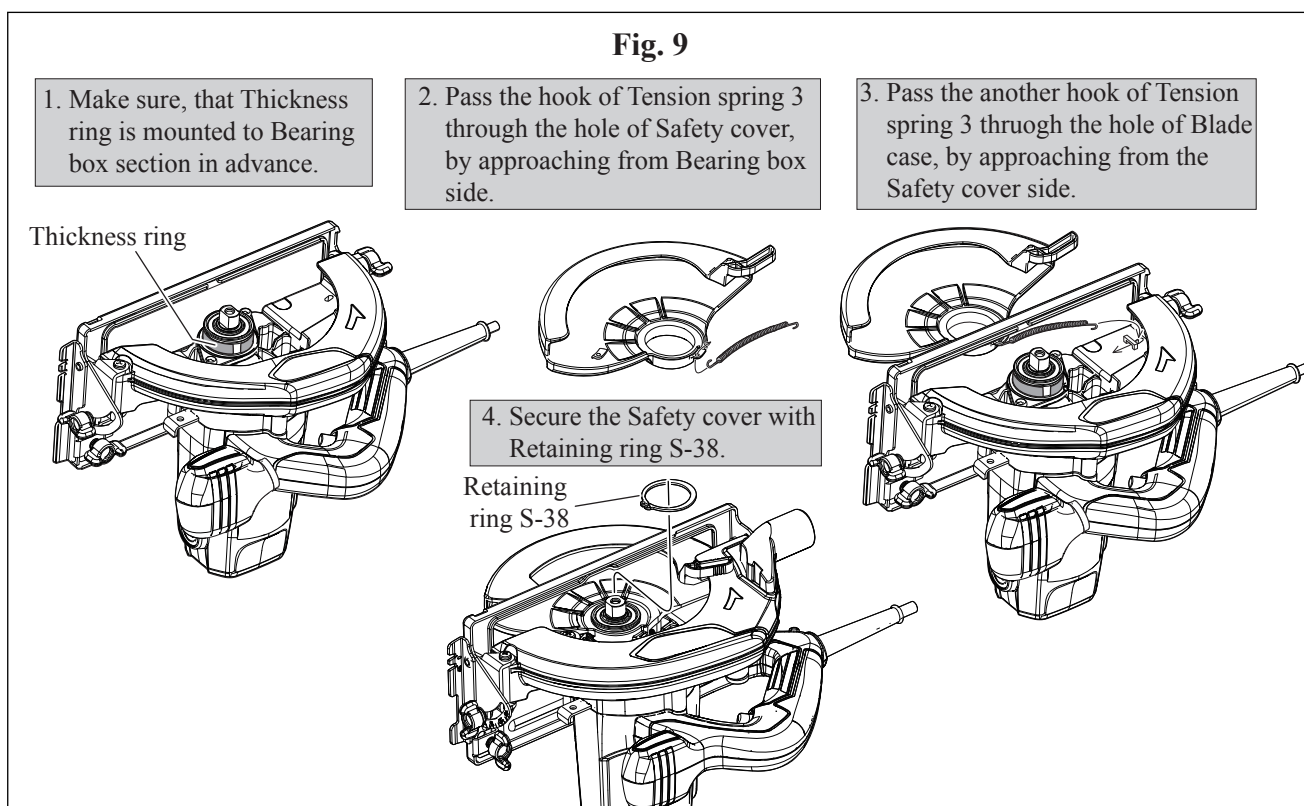
► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2-b Safety cover

ASSEMBLING

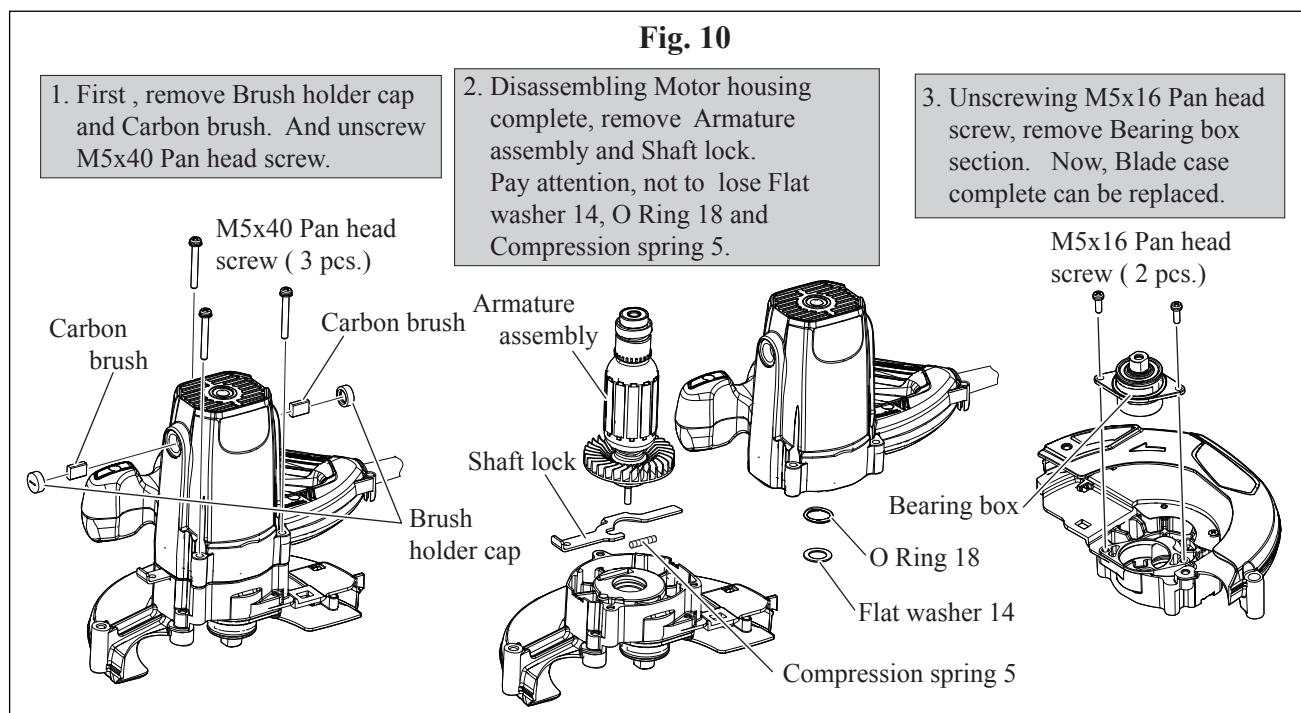
Assemble Safety cover as shown in **Fig. 9**.



[3] -2-c Blade case complete

DISASSEMBLING

- (1) Make Base free from Blade case complete on Depth guide side. See **Fig. 2**.
- (2) On Angular plate side, make Base free from Blade case complete. See **Fig. 3**.
So, Base can be separated from Blade case complete. See **Fig. 4**.
- (3) Disassemble Safety cover as shown in **Fig. 8**. And Blade case complete can be disassembled as shown in **Fig. 10**.



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3] -2-c Blade case complete

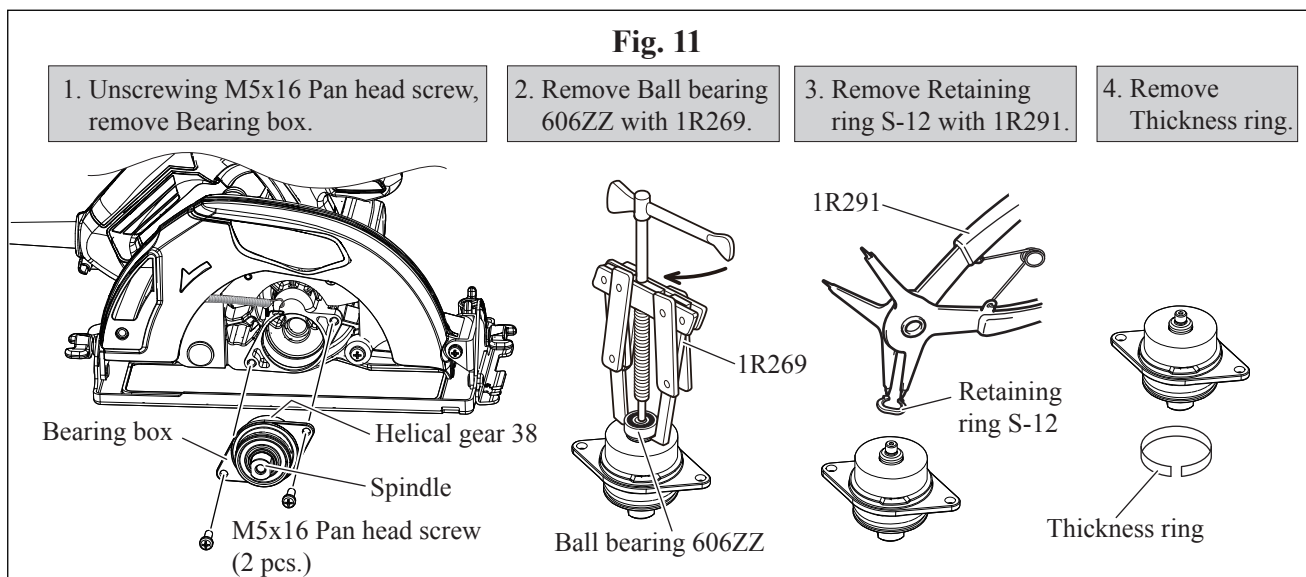
ASSEMBLING

- (1) Assemble Bearing box to Blade case complete. Refer to **right** illustration in **Fig. 10**.
- (2) Assemble Compression spring 5 and Shaft lock to Blade case complete. And then, assemble Armature assembly to Blade case complete. Putting O ring 18 and Flat washer 14 into Bearing box of Motor housing complete, assemble the Motor housing complete to Blade case complete. So, Base can be separated from Blade case complete. See **Fig. 4**. } Refer to **center** illustration in **Fig. 10**.
- (3) Fasten Motor housing complete to Blade case complete with three M5x40 Pan head screws. Refer to **left** illustration in **Fig. 10**.
- (4) Further step of Assembling can be proceeded by taking reverse step of Disassembling. Refer to **Fig. 3**, **Fig. 2**.

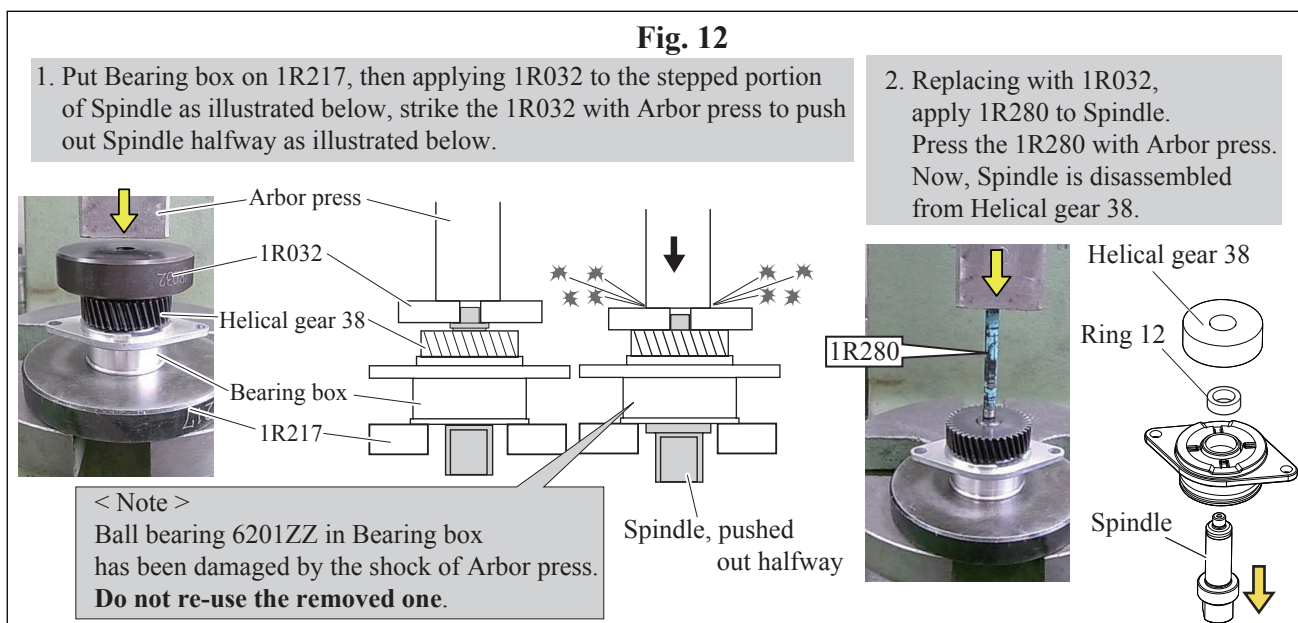
[3] -3 Bearing box, Gear section

DISASSEMBLING

- (1) Disassemble Safety cover as shown in **Fig. 8**.
- (2) Disassemble Bearing box from Blade case complete. And remove Ball bearing 606ZZ and Retaining ring S-12 as shown in **Fig. 11**.



- (3) Disassemble Spindle and Helical gear 38 from Bearing box as shown in **Fig. 12**.



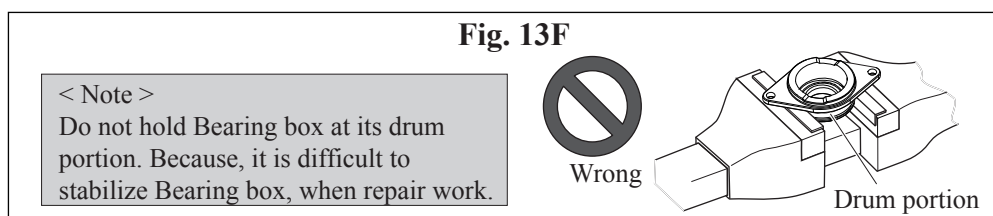
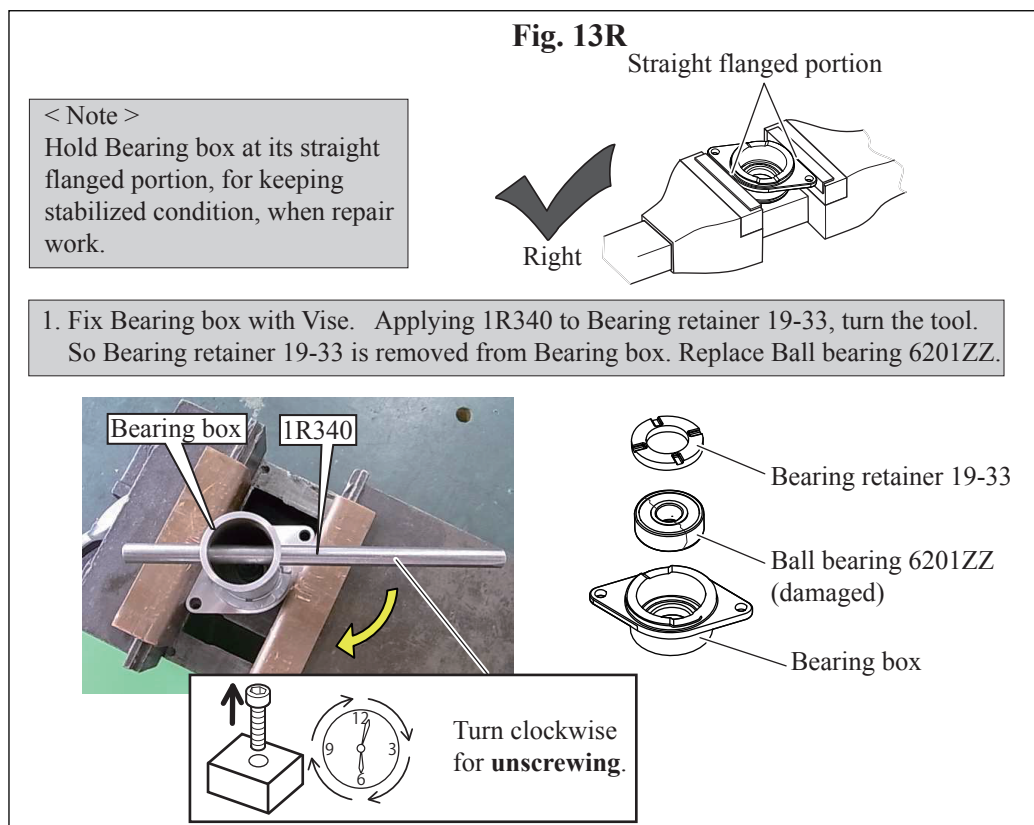
► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -3 Bearing box, Gear section

DISASSEMBLING

(4) Remove Ball bearing 6201ZZ as shown in Fig. 13R.



ASSEMBLING

(1) Assemble Bearing box section. Refer to Fig. 13R.

< Note >

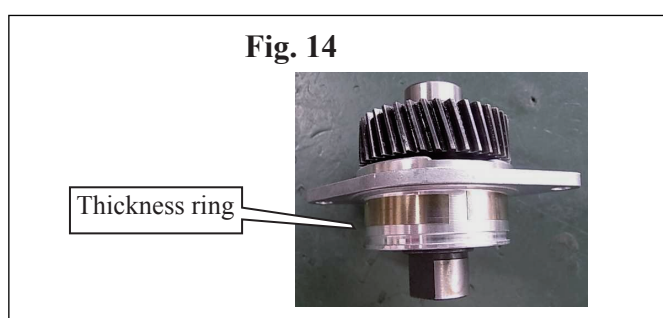
Do not use the removed Ball bearing 6201ZZ. Because the Ball bearing has been damaged in the step of Disassembling Spindle and Helical gear 38 from Bearing box. See Fig. 12.

(2) Mount Helical gear 38. Refer to Fig. 12.

Secure the helical gear with Retaining ring S-12. And assemble Ball bearing 606ZZ.

Refer to the illustrations in Fig. 11.

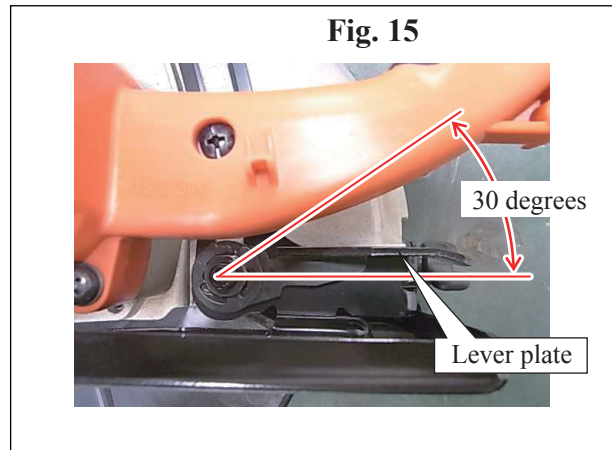
(3) Do not forget to assemble thickness ring. See Fig. 14.



► Repair**[3] DISASSEMBLY/ASSEMBLY****[3]-4. Adjustment of Lever plate**





ADJUSTMENBT



Adjust Lever plate so that cut depth, desired by user, can be set at the position shown in the photograph below.
See **Fig. 15**.



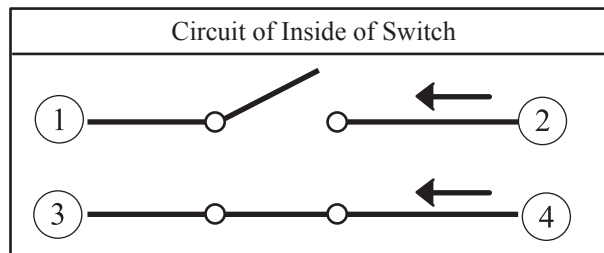
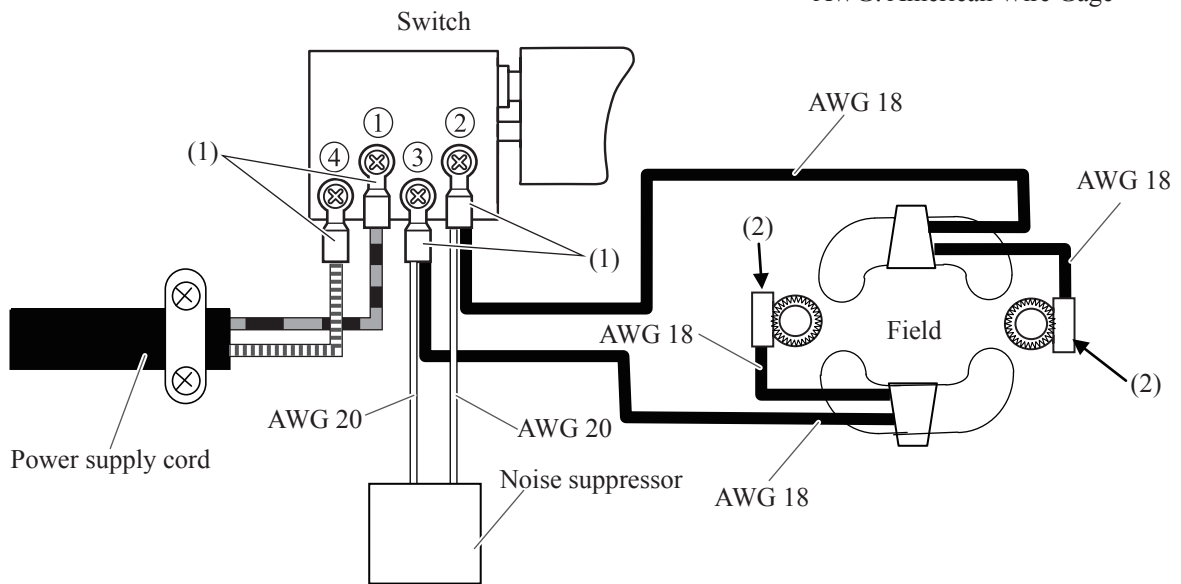
► Circuit diagram

Fig. D-1

Color index of lead wires' sheath	
Black	
Blue	
Brown	
White	

Item No.	Symbol of electrical parts
(1)	 Insulated terminal (M3.5)
(2)	 Spring terminal

< Note >
AWG: American Wire Gage



► **Wiring diagram**

