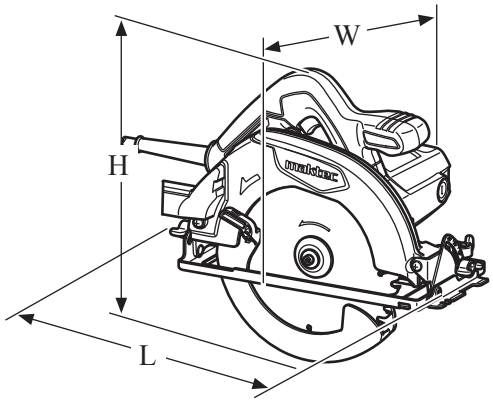
TECHNICAL INFORMATION

Model No. ► MT582

Description ► Circular Saw 190mm (7-1/2")



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

CONCEPT AND MAIN APPLICATIONS

Model MT582 has been developed as the aesthetic change model of **maktec** circular saw MT580, featuring

- Industrial performance and durability at less expense
- In compliance with the regulations of the EC directives
- Ergonomically designed soft grip covered with non-slip elastomer

► 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

No load speed: min $^{-1}$ = rpm		4,900	
Size of blade	Diameter: mm (")	190 (7-1/2)	185 (7-1/4)
	Hole diameter: mm (")	30 (1-3/16) or 20 (13/16)	
Max. cutting capacities: mm (")	at 0 degree	68 (2-11/16)	66 (2-5/8)
	at 45 degrees	46 (1-13/16)	44 (1-3/4)
Protection from electric shock		Double insulation	
Power supply cord: m (ft)		2.0 (6.6)	
Weight according to EPTA-Procedure 01/2003*: kg (lbs)		4.0 (8.8)	

* with Dust nozzle and TCT saw blade (Part No. 726083-9)

► 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 for the tool shown above may vary by country.

Repair

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

[1] NECESSARY REPAIRING TOOLS

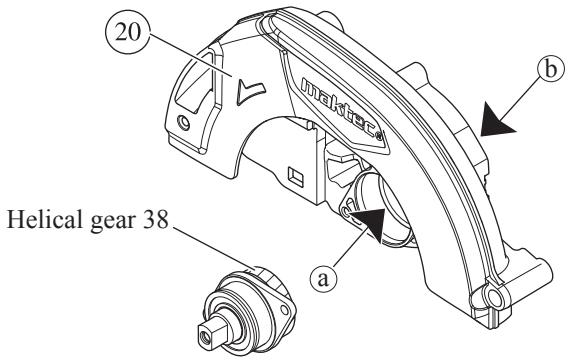
Code No.	Description	Use for
1R003	Retaining ring S pliers ST-2N	Removing / Mounting Retaining ring S-38
1R032	Bearing setting plate 8.2	Removing Helical gear 38
1R217	Ring 22	Holding Bearing box section when removing Helical gear 38
1R269	Bearing extractor	Removing Ball bearing from Armature
1R280	Round bar for Arbor 6-50	Removing Helical gear 38
1R291	Retaining ring S and R pliers	Removing / Mounting Retaining ring S-12
1R340	Bearing retainer wrench	Removing / Assembling Bearing retainer 19-33

[2] LUBRICATIONS

Apply Makita Grease N No.1 to the pointed area with triangles to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Recommended amount of grease
20	Blade case complete	ⓐ Gear room where Helical gear 38 rotates	Approx. 5 g
		ⓑ O Ring 26 built in the Armature insertion hole	a little

Fig. 1



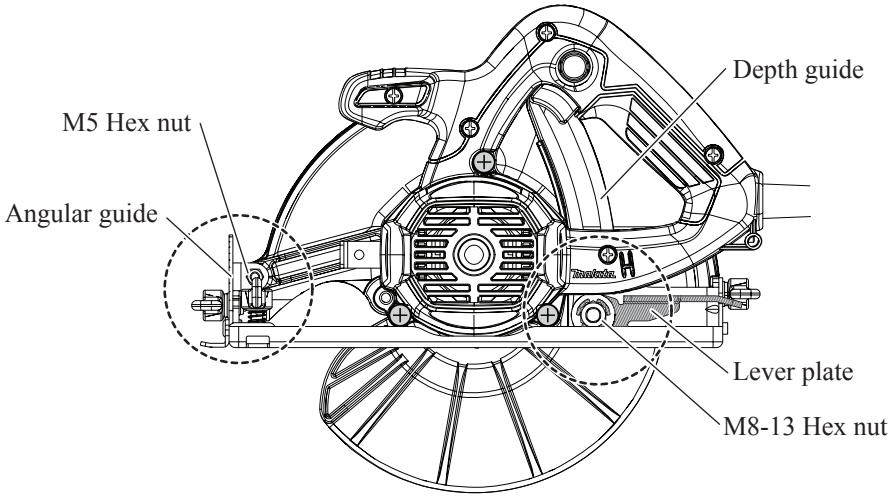
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Base

DISASSEMBLING

The Base is assembled to Blade case complete at the two points on Angular guide side and Lever plate indicated by dotted circle as drawn in **Fig. 2**

Fig. 2



Repair

[3] DISASSEMBLY/ASSEMBLY

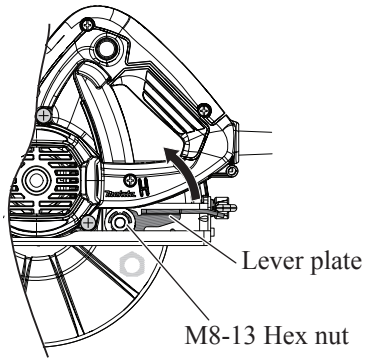
[3]-1. Base

DISASSEMBLING

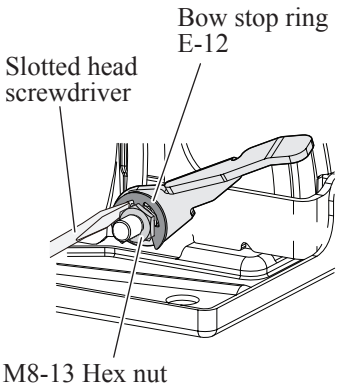
1) Disassemble the Nut and Bolt on the Lever plate side. (**Fig. 3**)
Then remove a stopper for Safety cover. (**Fig. 4**)

Fig. 3

1. Loosen M8-13 Hex nut halfway by turning Lever plate in the direction of the black arrow.



2. Remove Bow stop ring E-12 by twisting Slotted head screwdriver in the gap between the hex nut and the ring.



3. Unscrew M8-13 Hex nut by using Lever plate as a Wrench, and remove Flat washer 8. M8x24 Flat head square neck bolt cannot be removed yet in this step as its bolt head side is blocked by Safety cover.

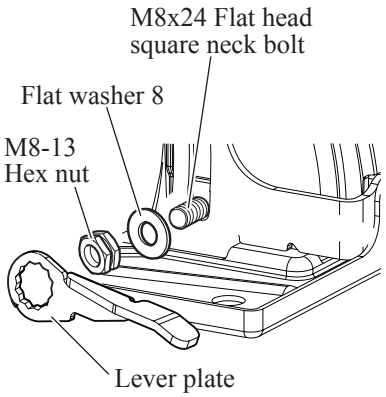
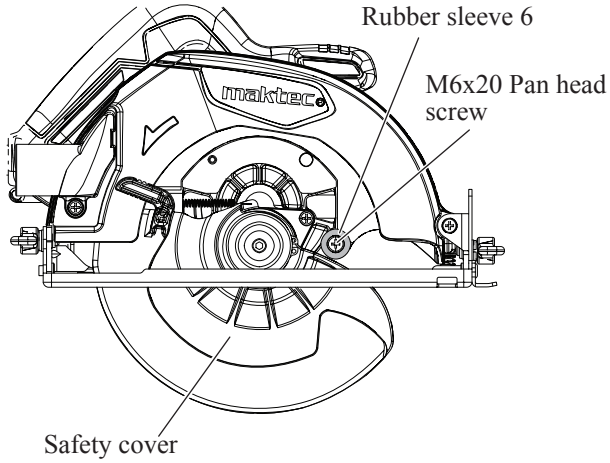
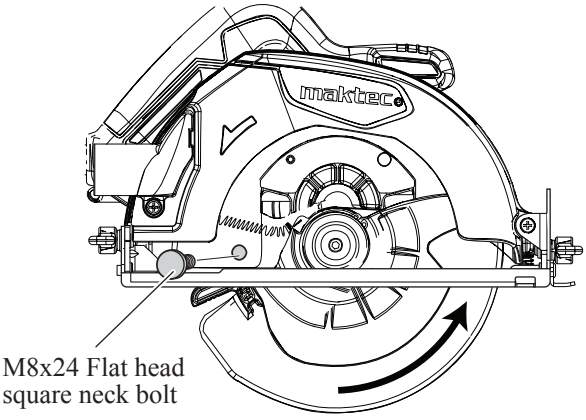


Fig. 4

4. Unscrew M6x20 Pan head screw and remove Rubber sleeve 6 which functions as a stopper for Safety cover.



5. Turn Safety cover toward in the direction of the black arrow, then remove M8x24 Flat head square neck bolt.



Base at Lever plate side is released from Blade cover after this step.

Repair

[3] DISASSEMBLY/ASSEMBLY

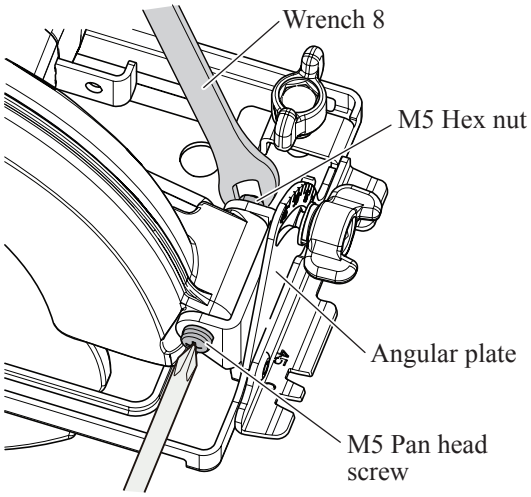
[3]-1. Base (cont.)

DISASSEMBLING

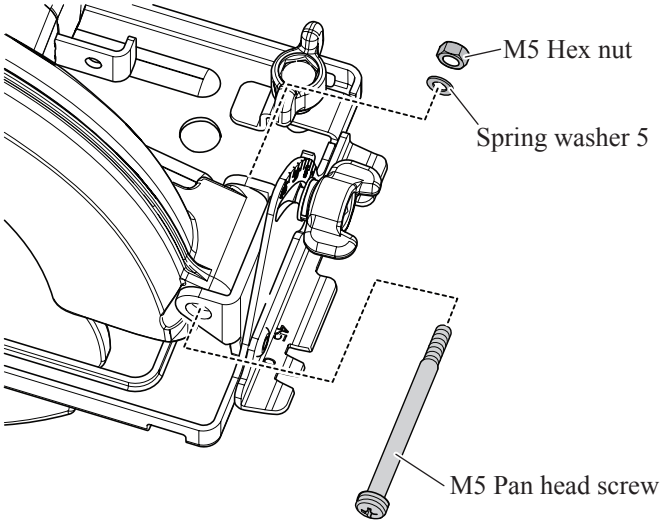
2) Disassemble the Nut and Screw on Angular plate side. (**Fig. 5**)

Fig. 5

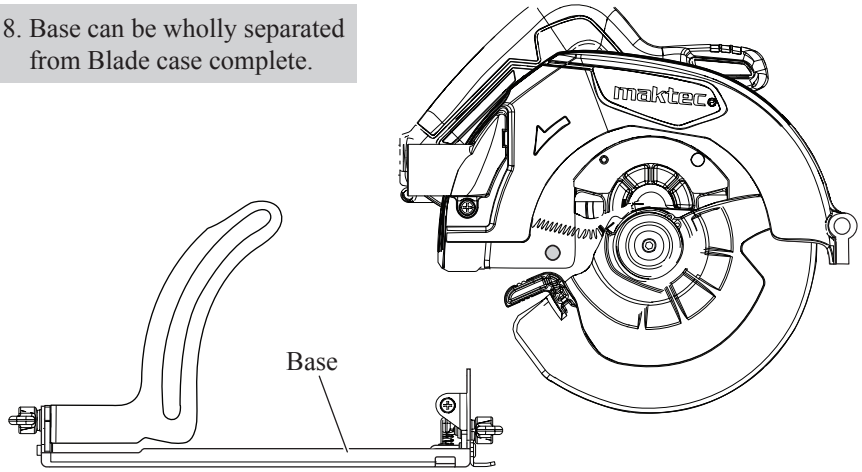
6. Loosen M5 Pan head screw while blocking M5 Hex nut with Wrench 8.



7. Remove M5 Pan head screw, M5 Hex nut and Spring washer 5.



8. Base can be wholly separated from Blade case complete.



Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Base

ASSEMBLING

1) Joint Base with Blade case complete on the Angular plate side. (**Fig. 5**)
2) Insert M8x24 Flat head square neck bolt through Blade case complete and Depth guide on Base. (**right** in **Fig. 4**)
3) Turn Safety cover clockwise, then assemble Rubber sleeve 6 to Blade case complete by fastening with M6x20 Pan head screw. Safety cover stops at the starting position. (**left** in **Fig. 4**)
4) Mount Flat washer 8 on M8x24 Flat head square neck Bolt, and tighten M8-13 Hex nut with Lever plate. (**right** in **Fig. 3**)
5) Adjust the assembling position of Lever plate. (**Fig. 6**)
6) Fix Lever plate with Bow stop ring E-12. (**Fig. 7**)

Fig. 6

Lever plate must be fixed in place so that it can be locked at an angle between 0 and 30 degrees as drawn below.

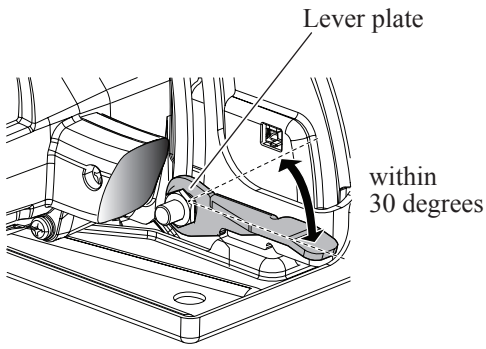
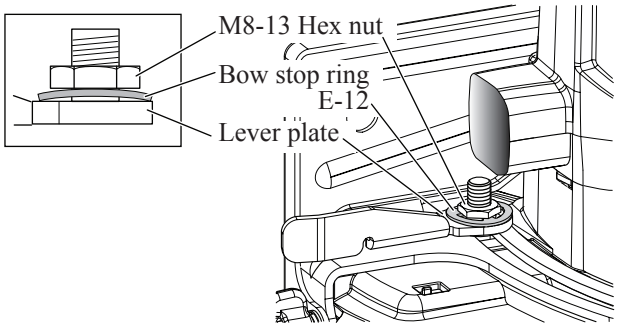


Fig. 7

Assemble Bow stop ring E-12 to Lever plate.
Note: The concave side of the ring must face Lever plate as drawn below so that Lever plate can be securely fastened with M8-13 Hex nut.



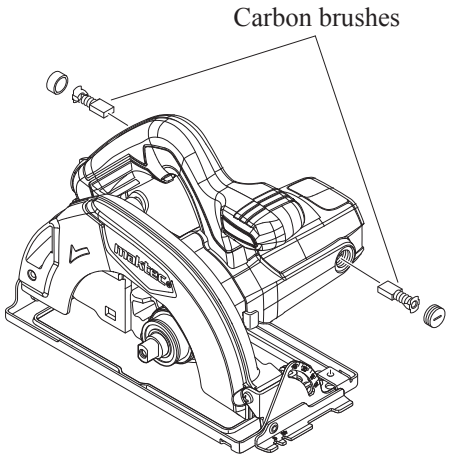
[3]-2. Armature

DISASSEMBLING

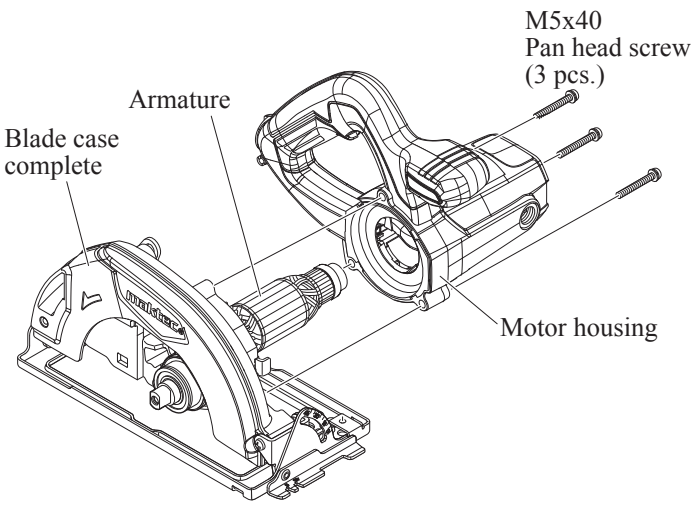
1) Separate Motor housing from Blade case complete. (**Fig. 8**)

Fig. 8

1. Remove Carbon brushes.



2. Remove Motor housing from Blade case complete by unscrewing M5x40 Pan head screws.



► Repair

[3] DISASSEMBLY/ASSEMBLY

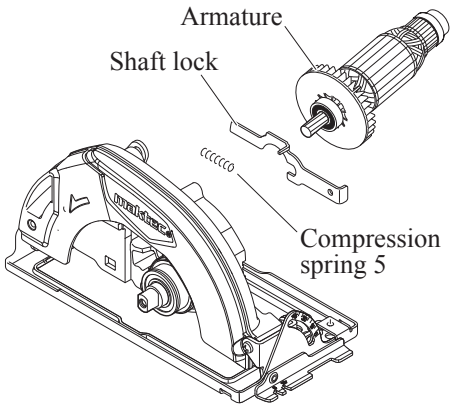
[3]-2. Armature (cont.)

DISASSEMBLING

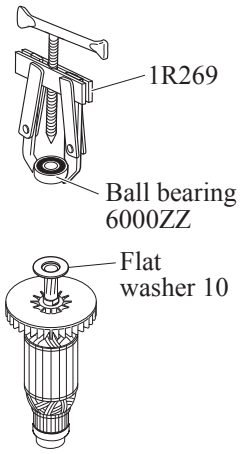
2) Remove Armature from Blade case complete, then disassemble Ball bearings from Armature. (**Fig. 9**)

Fig. 9

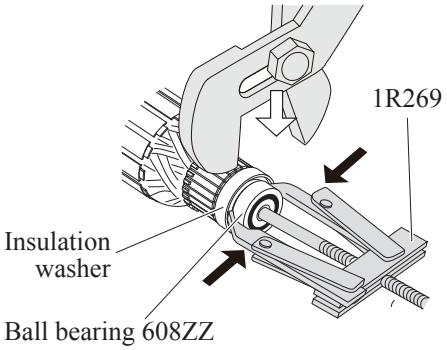
3. Pull out Armature from Blade case complete, then remove Shaft lock.
Note: Be careful not lose Compression spring 5.



4. Remove Ball bearing 6000ZZ with 1R269.



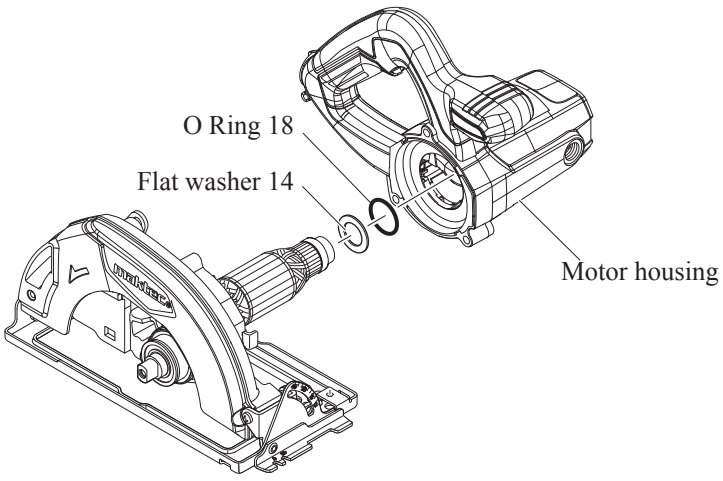
5. Use Water pump pliers to clamp the claws of 1R269 so as to hold Ball bearing 608ZZ firmly and remove it as drawn below.



ASSEMBLING

1) Do the reverse of the disassembling steps.
Note:
a. Be sure to put Flat washer 10 on the drive end of Armature before mounting Ball bearing 6000ZZ. (**center** of **Fig. 9**)
b. Set Shaft lock and Compression spring 5 in place on Blade case complete before inserting Armature into there. (**left** in **Fig. 9**)
c. Insert O ring 18 and Flat washer 14 into the bearing box at bottom inside of Motor housing. (**Fig. 10**)

Fig. 10



► Repair

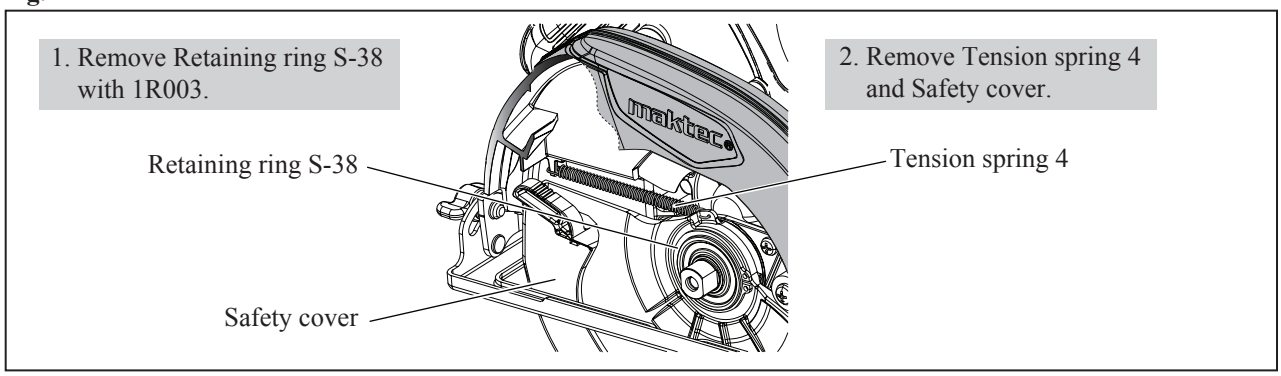
[3] DISASSEMBLY/ASSEMBLY

[3]-3. Blade case complete, Safety cover

DISASSEMBLING

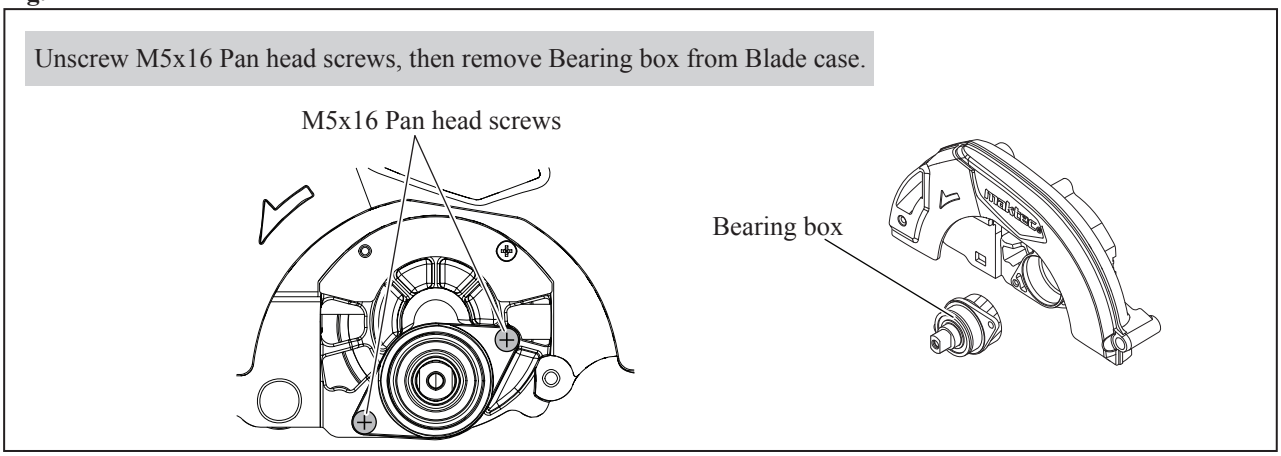
1) Disassemble Safety cover. (**Fig. 11**)

Fig. 11



2) Remove Motor housing from Blade case complete. (**Fig. 8**)
Then pull off Armature. (**left** in **Fig. 9)**
3) Dismantle Base. (**Figs. 3**, **4**, **5**)
4) Blade case complete can be replaced after removing Bearing box. (**Fig. 12**)

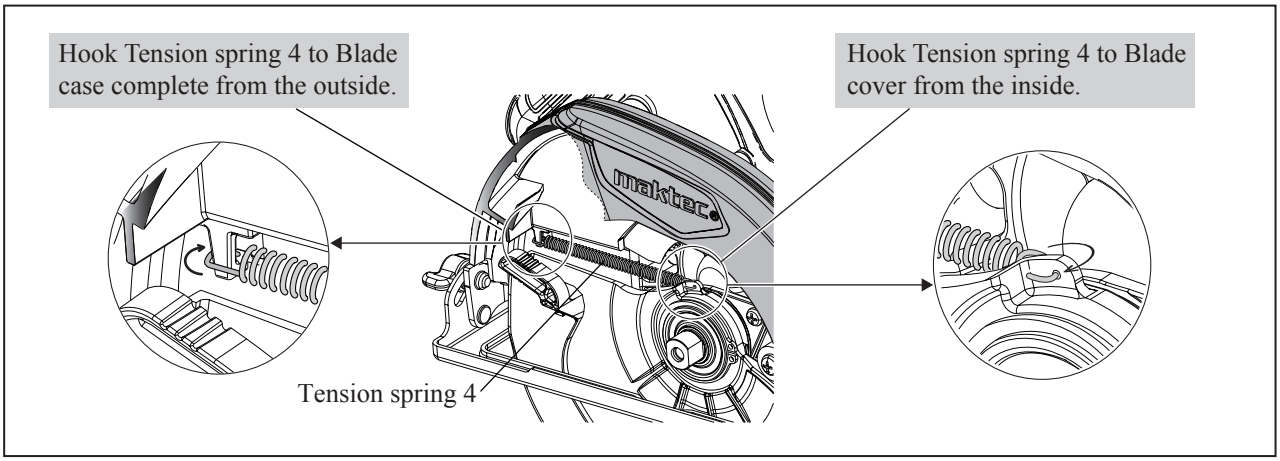
Fig. 12



ASSEMBLING

(1) Assemble Bearing box to Blade case complete. (**Fig. 12**)
(2) Assemble Base to Blade case complete by doing the reverse of the steps described in **Figs. 5, 4, 3**.
(3) Assemble Armature and Motor housing by doing the reverse of the steps described in **Figs. 9**, **8**.
(4) Assemble Safety cover to Bearing box section as instructed in **Fig. 13**.

Fig. 13



► Repair

[3] DISASSEMBLY/ASSEMBLY

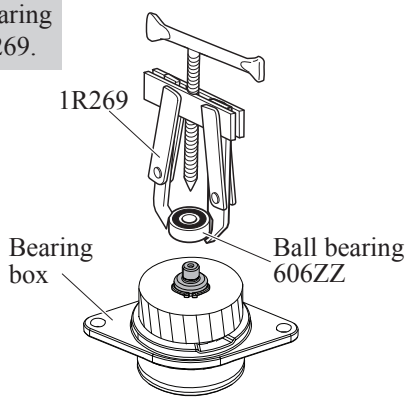
[3]-4. Bearing box, Helical gear 38

DISASSEMBLING

1) Disassemble Safety cover. (**Fig. 11**)
2) Disassemble Bearing box. (**Fig. 12**)
3) Remove Spindle and Helical gear 38 from Bearing box. (**Figs. 14**, **15**, **16**)

Fig. 14

1. Remove Ball bearing 606ZZ with 1R269.



2. Remove Retaining ring S-12 with 1R291.

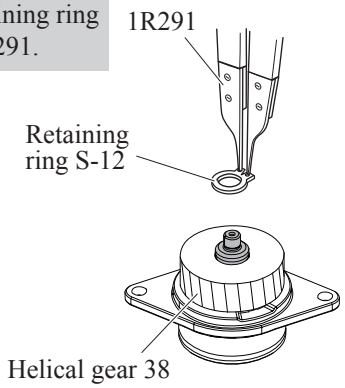


Fig. 15

3. Put Bearing box on 1R217, then applying 1R032 to the stepped portion of Spindle as illustrated below, strike the 1R032 with Arbor press carefully, and push out Spindle halfway as illustrated below.

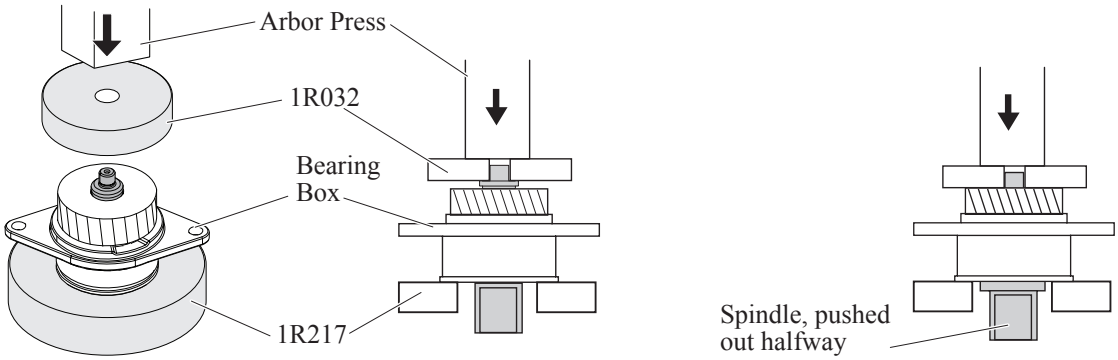
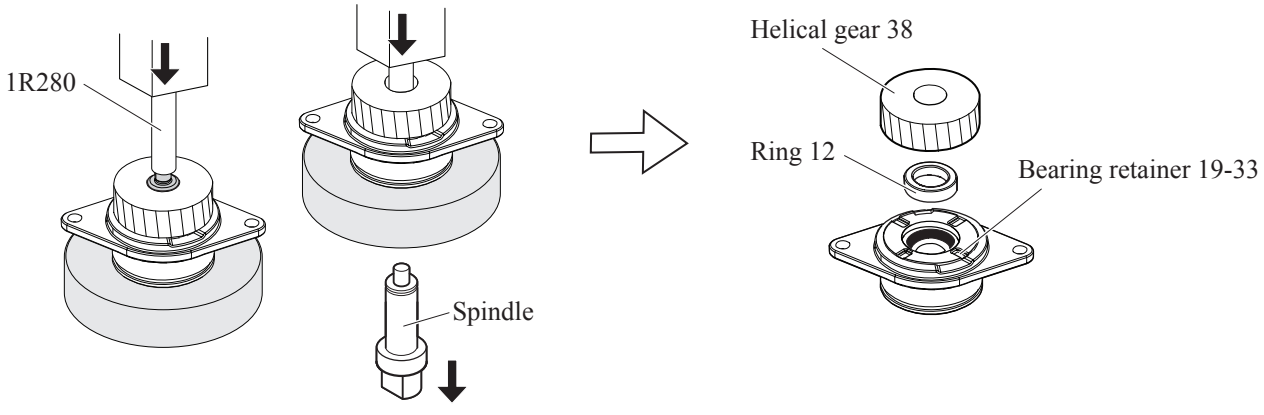


Fig. 16

4. Apply 1R280 and press it with Arbor press until Spindle, Helical gear 38 and Ring 12 are removed from Bearing box.



► Repair

[3] DISASSEMBLY/ASSEMBLY

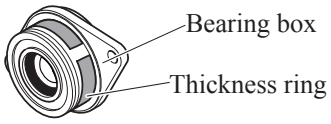
[3]-4. Bearing box, Helical gear 38 (cont.)

DISASSEMBLING

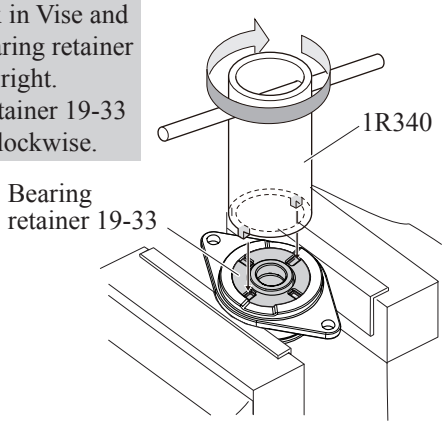
4) Remove Ball Bearing 6201ZZ from Bearing box. (**Fig. 17**)

Fig. 17

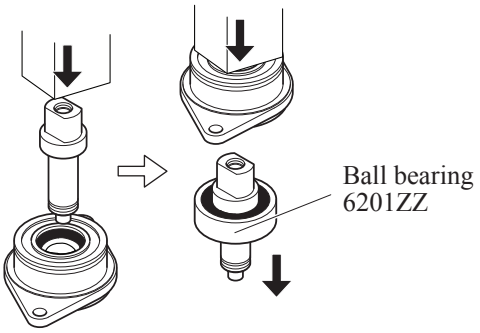
1. Remove Thickness ring before setting Bearing box to vise.



2. Fix the Bearing box in Vise and apply 1R340 to Bearing retainer 19-33 as illustrated right. Remove Bearing retainer 19-33 by turning 1R340 clockwise.



3. Spindle can be used as a jig for removing Ball bearing 6102ZZ.



Note: Do not reuse Ball bearing 6201ZZ removed from bearing box because it is damaged in the removal process of Spindle, Helical gear 38 and Ring 12.

ASSEMBLING

Assemble Bearing box section by doing the reverse of the disassembling steps,

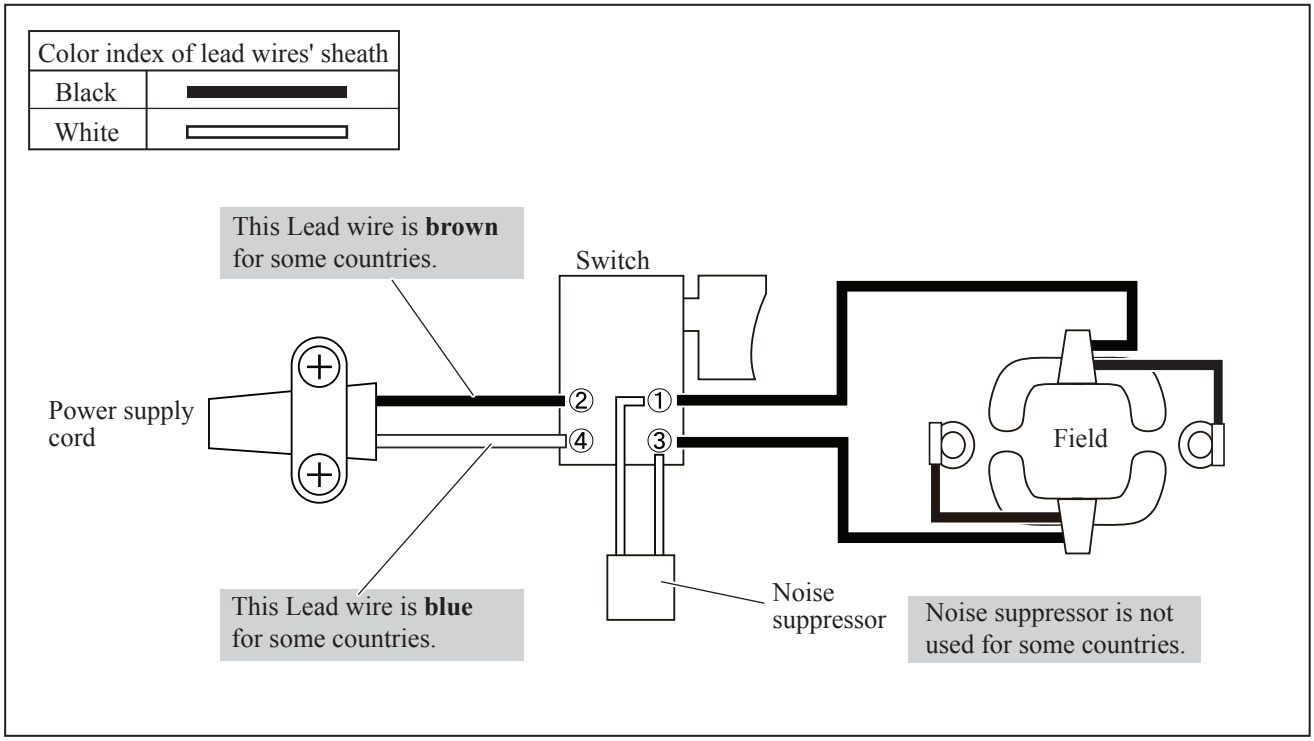
Note:

1) Do not forget to set Thickness ring and mount Ring 12 after assembling Bearing box. (**right** in **Fig. 16**)

2) Be sure to use **new** Ball bearing 6201ZZ because removed one was damaged in the removal process of Spindle, Helical gear 38 and Ring 12.

Circuit diagram

Fig. D-1



Wiring diagram

Fig. D-2

