ECHNICAL INFORMATION

Models No.) ► BHS630 (LXSH01*1)

Description ► 165mm (6-1/2") Cordless Circular Saw *1 Model number for North and Central American countries

CONCEPT AND MAIN APPLICATIONS

Model BHS630 is a 165mm (6-1/2") Cordless Circular Saw powered by 18V/3.0Ah Li-ion battery Model BL1830.

Its main features are:

- Aable to cut up to 66mm (2-5/8") thick wood with a single stroke, which no competitors' 18V models can do.
- In spite of compact and lightweight design, performs the same smooth and comfortable cutting as AC circular saws.
- Compatible with 18V Li-ion battery of BL1830 equipped with the battery protection circuit designed to protect the battery from damages due to overdischarge, high temperature or overload current.
- High maneuverability provided by Good tool balance, Twin LED light, Blower function and Fine parallel adjustment of base plate.

Note: 1.3Ah Li-ion battery of BL1815 cannot be used for this model.

This model is available in the following variations.

Model No.	Bat Type	tery Quantity	Battery cover	Charger	Plastic carrying case	Housing color
BHS630RFE (LXSH01)	BL1830	2	1	DC18RC	Yes	Makita-blue
BHS630Z (LXSH01Z)						Makita-blue

All models also include the accessories listed below in "Standard equipment".

Specification

	Voltage:W	,		18	
	Voltage:V				
	Capacity:Ah			3.0	
Battery	Cell			Li-ion	
	Charging time (approx.):			15/ 22	
	min.			with DC18RC	
Max output (W)				730	
No load speed: min-1=rpm			n	3,100	
			meter	165 (6-1/2)	
Blade siz	ze: mm (")	Hole diameter		North America: 15.88 (5/8) All countries except North America: 20	
Max cut	Max cutting capacities		at 0°	66 (2-5/8)	
[°] mm (")		(")	at 45°	46 (1-13/16)	
Electric brake				Yes	
Job light				Yes (Twin LED light)	
Weight according to EPTA-Procedure 01/2003*2: kg (lbs)			3*2: kg (lbs)	3.5 (7.7)	

*Includes TCT Saw Blade, Battery BL1830 and Dust nozzle

Standard equipment

TCT Saw blade 165mm (6-1/2")	1
Hex wrench 5	1
Rip fence	1
Dust nozzle (for European countries only)	

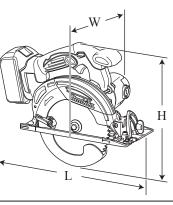
Note: The standard equipment for the tool shown above may vary from country to country.

Optional accessories

Fast charger DC18RC Charger DC18SD Charger DC24SC Automotive charger DC18SE

Battery BL1830 165mm (6-1/2") TCT Saw Blades Dust nozzle **Rip** fences

Safety goggles Guide rail adapter Various parts of guide rail



Dimensions: mm (")			
Length (L)	346 (13-5/8)		
Width (W)	220 (8-5/8)		
Height (H)	247 (9-3/4)		

► Repair

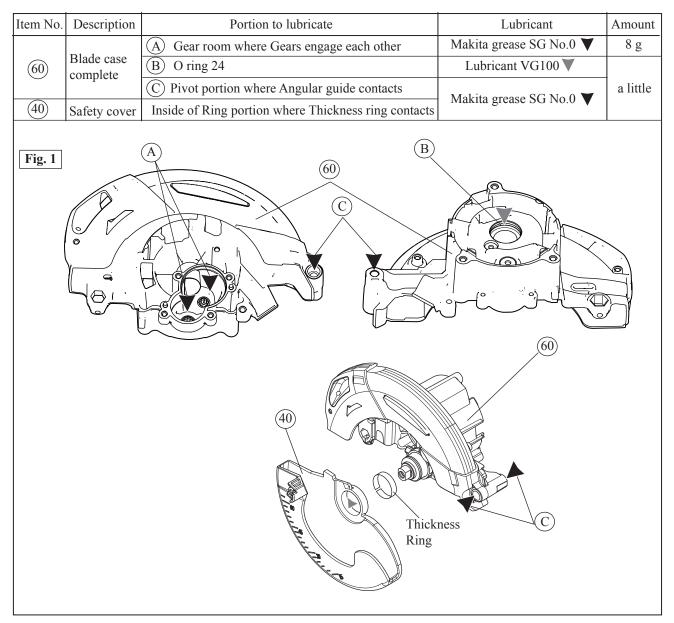
CAUTION: Repair the machine in accordance with "Instruction manual" or "Safety instructions".

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R003	Retaining ring S pliers ST2N	removing / mounting Retaining ring WR-26
1R031	Bearing setting pipe 28-20.2	holding Bearing box when removing Helical gear 24
1R208	90 degree set square	adjusting the angle of Saw blade to 90 Degrees
1R212	Tip for Retaining ring pliers	attachment to 1R003
1R263	Bearing extractor	removing Blade cover
1R269	Bearing extractor	removing Ball bearings
1R291	Retaining ring S & R pliers	removing Retaining ring S-10 from Spindle
1R361	Bearing retainer tightening tool	removing / Mounting Bearing retainer 14-23

[2] LUBRICATIONS

Apply the following grease and Lubricant to the portions pointed with triangles to protect parts and product from unusual abrasion.



Repair

[3] DISASSEMBLY/ASSEMBLY [3]-1. Base

DISASSEMBLING

Base can be separated from the machine as drawn in **Figs. 2** and **3**. **Fig. 2**

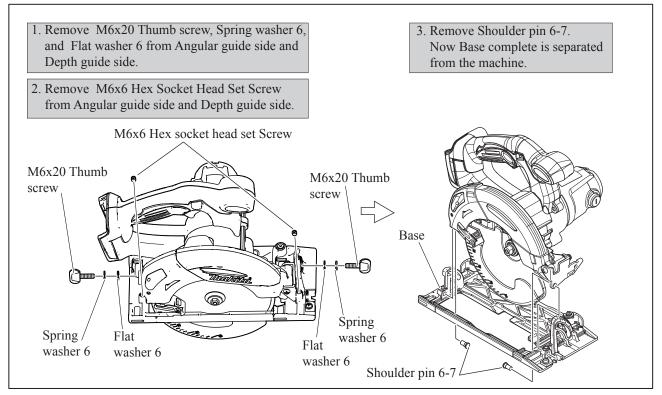
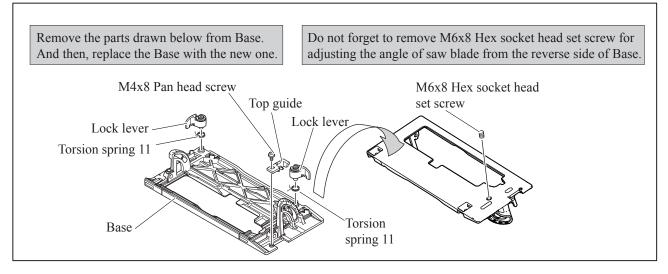


Fig. 3



ASSEMBLING

Take the reverse step of Disassembling. Refer to Fig. 3, Fig. 2.

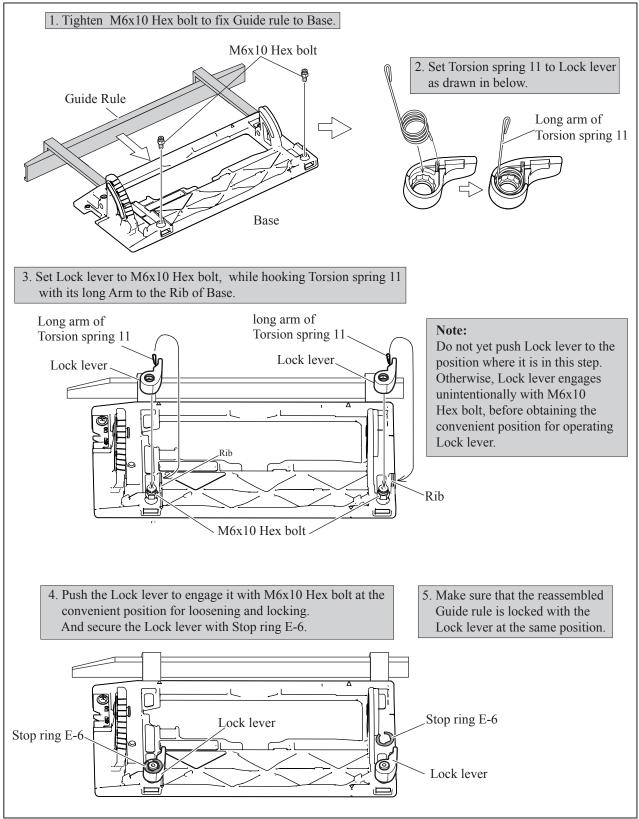
Note in Assembling

- 1. After mounting Lock lever, its adjustment is required to obtain the correct lock position for guide rule, mounted. to Base. See "[3]-2. Lock Lever".
- 2. After mounting Base to the machine, adjustment of angle of saw blade to the Base is required. See "[4] Adjustment"

Repair [3] DISASSEMBLY/ASSEMBLY [3]-2. Lock Lever

ASSEMBLING

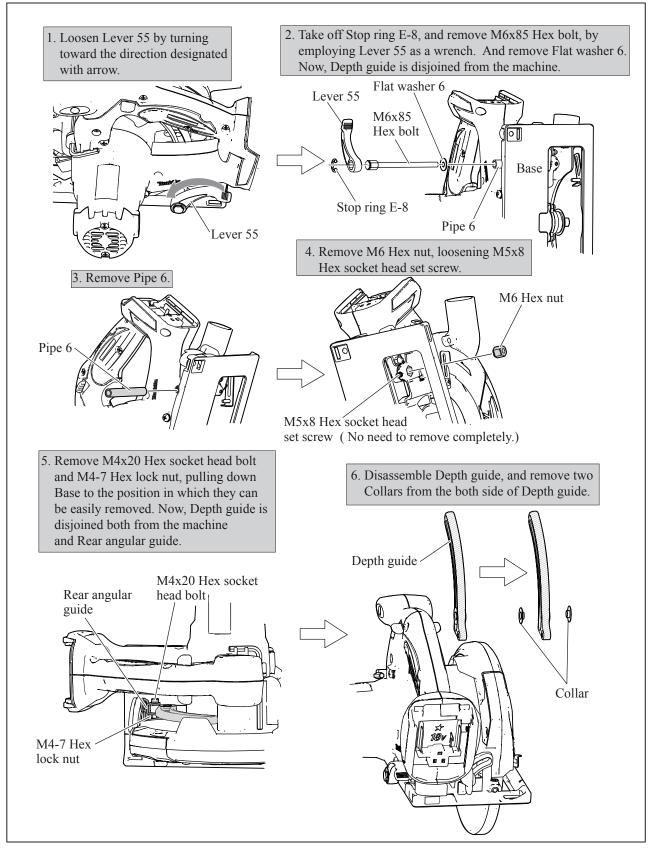
Assemble Lock lever to Base, and adjust to obtain the convenient lock position as drawn in Fig. 4.



Repair [3] DISASSEMBLY/ASSEMBLY [3]-3. Depth Guide

DISASSEMBLING

Depth guide is joined to the Machine at the Handle section, and to Base at Rear angular guide. Separate Depth guide by disassembling from Handle section and from Rear angular guide as drawn in **Fig. 5**.



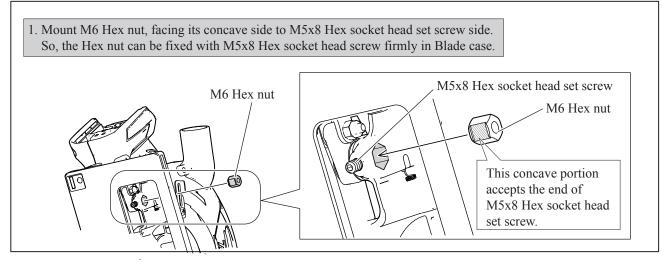
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Repair [3] DISASSEMBLY/ASSEMBLY [3]-3. Depth Guide

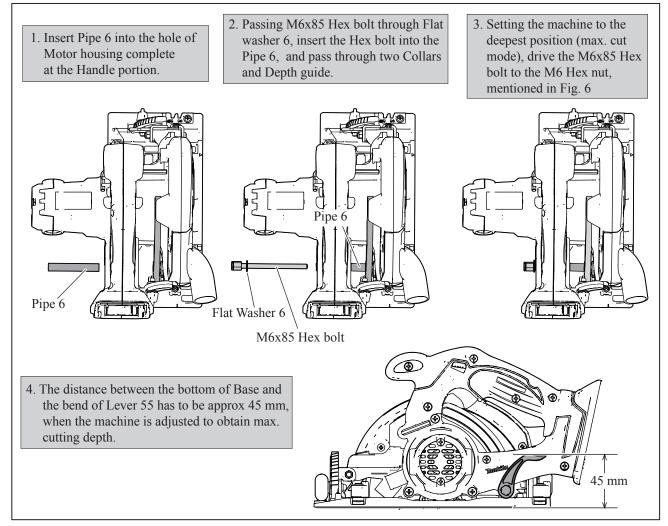
ASSEMBLING

- 1. Assemble Depth guide to Rear angular guide by tightening with M4x20 Hex socket head bolt and M4-7 Hex lock nut. Refer to the **bottom left** illustration in **Fig. 5**.
- 2. Set Collar to the both side of the Depth guide. Refer to the bottom right illustration in Fig. 5.
- 3. Mount M6 Hex nut to Blade case as illustrated in Fig. 6.

Fig. 6



4. Proceed the assembling as drawn in Fig. 7.



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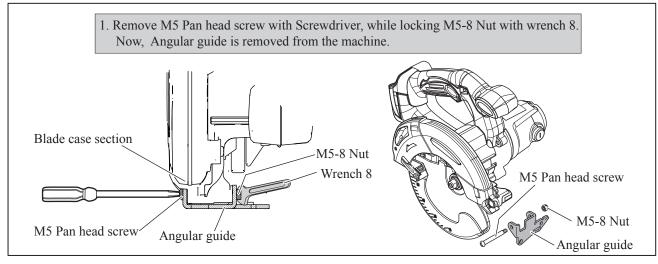
Repair [3] DISASSEMBLY/ASSEMBLY [3]-4. Angular Guide

DISASSEMBLING

Angular guide is fixed to the machine at the following 3 positions.

- 1. at the hinge portion fixed with Shoulder pin 6-7 and M6x6 Hex socket head set screw
- 2. at Angular plate on Base with M6x20 Thumb screw, Flat washer 6 and Spring washer 6
- 3. at Blade case section with M5 pan head screw and M5-8 Nut.
- (1) Make Angular guide free at hinge portion and Angular plate portion as drawn in Fig. 2.
- (2) Make the Angular plate free from the Blade case section as drawn in Fig. 8.

Fig. 8



ASSEMBLING

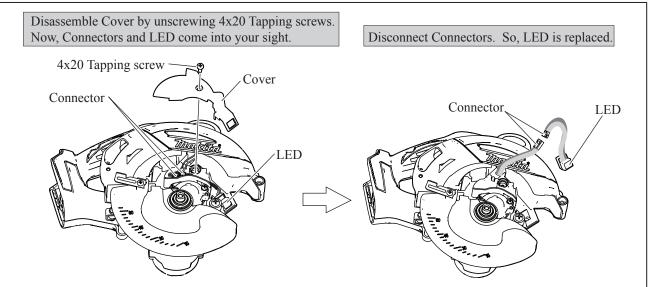
Assemble Angular guide, referring to Fig. 2.

[3]-5. LED and Motor Section

DISASSEMBLING

The machine is joined to Base at the following 2 positions.

- 1. at the hinge portion of Blade case (at the front side of Blade case) with Angular guide
- 2. at the Handle section of Motor housing complete with Depth guide
- (1) Remove Lever 55 and M6x85 Hex bolt as per the **top right** drawing in **Fig. 5**. Now the machine is free from Depth guide.
- (2) Make the machine free from Angular guide as illustrated in Fig. 8.
- Now the machine is separated from Base completely. And disassemble LED as drawn in Fig. 9.



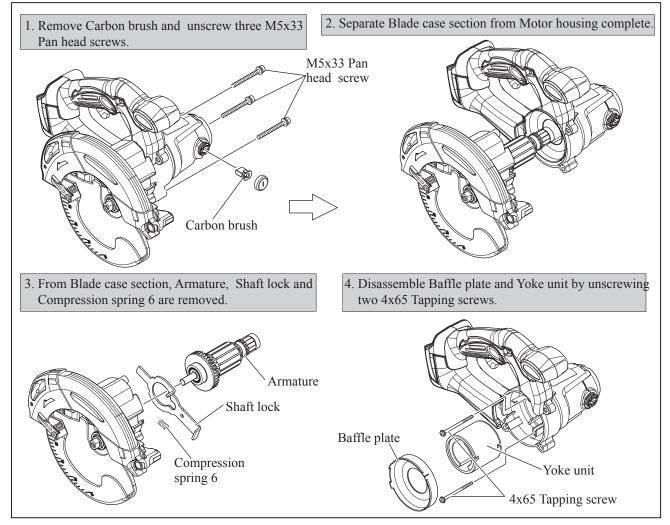
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Repair [3] DISASSEMBLY/ASSEMBLY [3]-5. LED and Motor Section

DISASSEMBLING

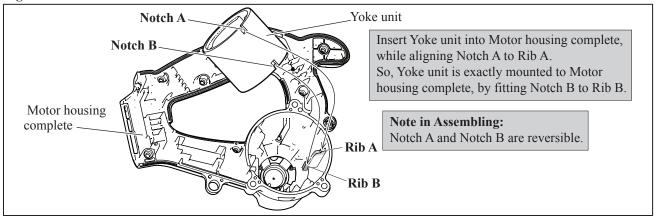
(3) Armature and Yoke unit can be replaced as drawn in Fig. 10.

Fig. 10



ASSEMBLING

(1) Assemble Yoke unit to Motor housing complete as illustrated in Fig. 11. Fig. 11



(2) Assemble Motor section by tasking the reverse step of Disassembling. Refer to Fig. 10.

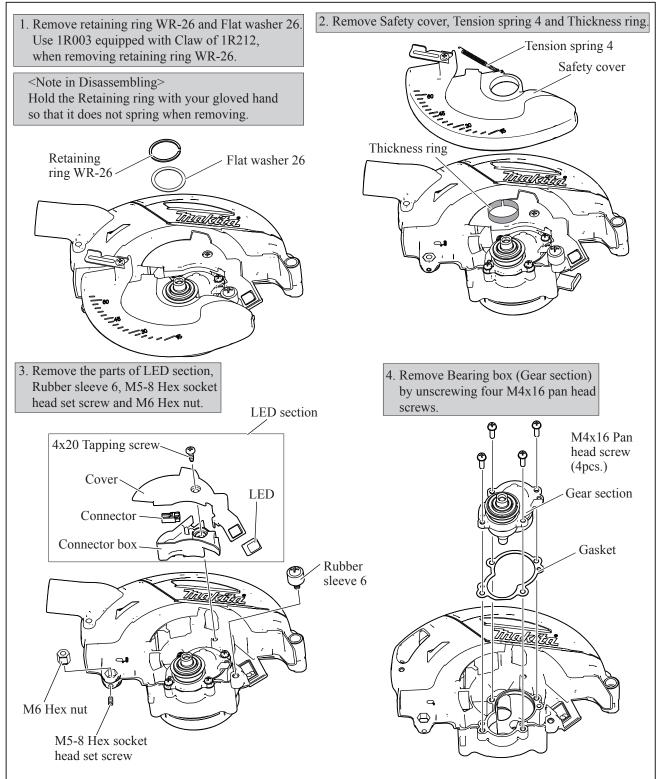
Note in Assembling:

Do not forget to assemble Shaft lock and Compression spring 6. Refer to the lower left drawing in Fig. 10.

Repair [3] DISASSEMBLY/ASSEMBLY [3]-6. Blade Case Complete

DISASSEMBLING

- (1) Remove Lever 55 and M6x85 Hex bolt as per the **top right** drawing in **Fig. 5**. Now the machine is free from Depth guide.
- (2) Make the machine free from Angular guide as drawn in **Fig. 8**. Now the machine is separated from Base completely.
- (3) Separate Blade case as per the upper left, upper right and lower left drawings in Fig. 10.
- (4) Disassemble Safety cover and Gear section from Blade case as drawn in Fig. 12.

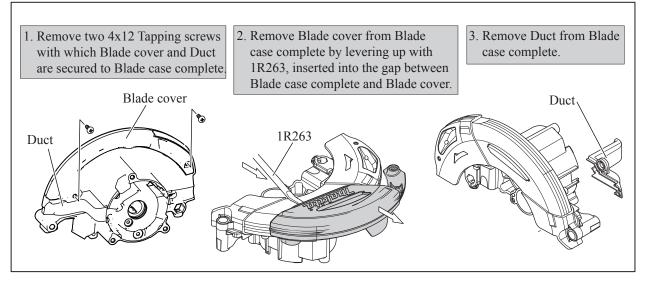


Repair [3] DISASSEMBLY/ASSEMBLY [3]-6. Blade Case Complete

DISASSEMBLING

(5) Remove Blade cover and Duct from Blade case complete as drawn in Fig. 13.

Fig. 13



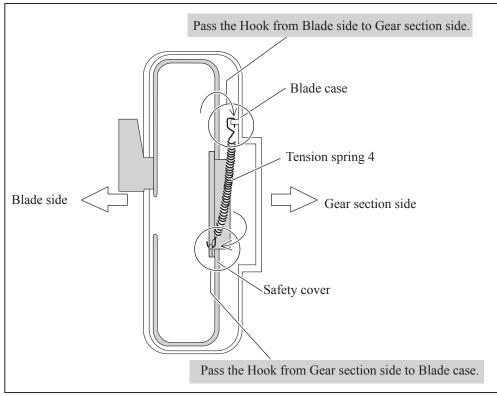
ASSEMBLING

(1) Take the reverse step of Disassembling. Refer to Figs. 13 and 12.

Note in Assembling:

Tension spring 4 has to be connected to Safety cover and Blade case as drawn in Fig. 14.





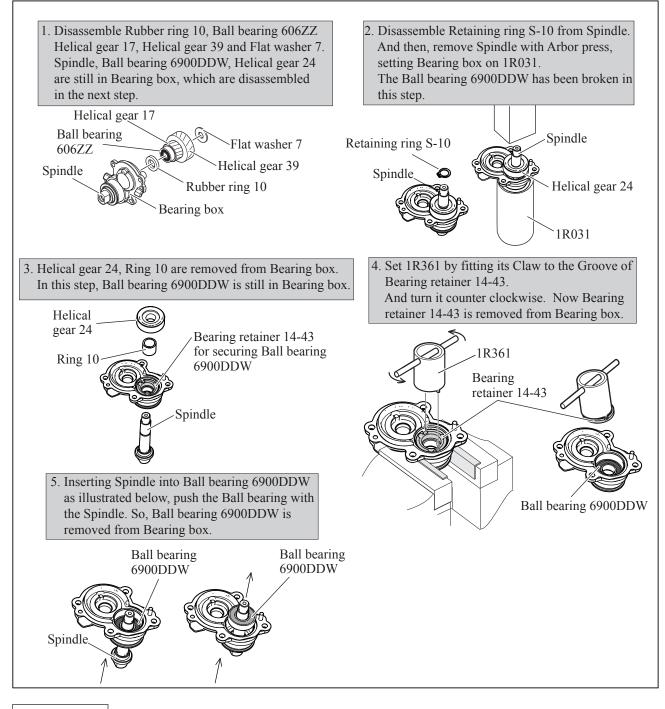
Repair [3] DISASSEMBLY/ASSEMBLY [3]-7. Bearing Box (Gear Section)

DISASSEMBLING

In case of repairing of Bearing box (Gear section) singly, no need to separate the machine from the Base.

- (1) Remove Safety cover as per the upper left and upper right drawings in Fig. 12.
- (2) Remove Bearing box (Gear section) from Blade case complete as per the lower right drawing in Fig. 12.
- (3) Now the Bearing box can be disassembled as drawn in Fig. 15.

Fig. 15



ASSEMBLING

Take the reverse step of Disassembling. Refer to Fig. 15 and Fig. 12.

Note in Assembling:

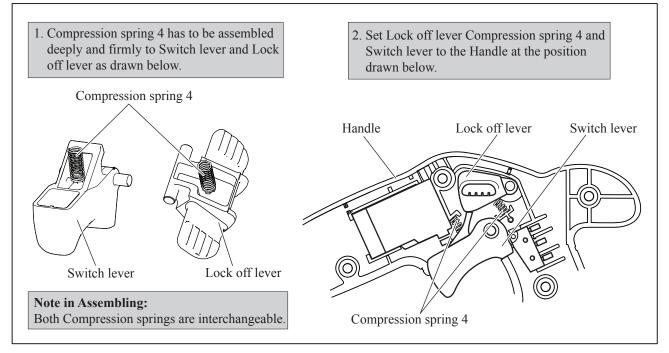
Assemble **fresh Ball bearing 6900DDW** instead of the removed one, because the Ball bearing has been broken when removing Spindle from Bearing retainer 14-43.

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Repair [3] DISASSEMBLY/ASSEMBLY [3]-8. Lock Off Lever, Switch Lever

ASSEMBLING

Assemble Switch lever and Lock off lever to Handle as illustrated in Fig. 16.



Repair [4] ADJUSTMENT

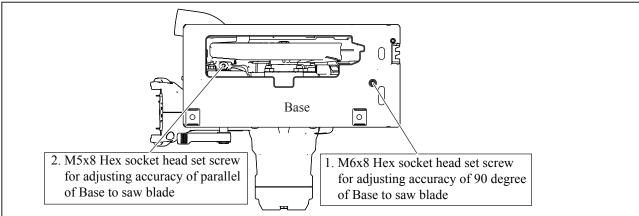
Following two kinds of adjustment screws are used in this product.

1. M6x8 Hex socket head set screw for adjusting Accuracy of 90 degrees .

2. M5x8 hex socket head set screw for adjusting Accuracy of Parallel of Base to saw blade

See the following drawing in Fig. 17.

Fig. 17

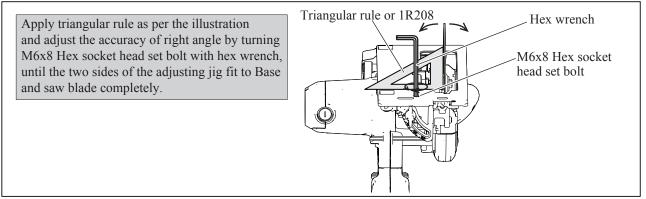


[4]-1. Adjusting Accuracy of 90 degree cut

Mounting Saw blade to the machine, set the machine to the lowest possible position to obtain the max. cut depth. But, do not attach Battery to the machine.

Adjust accuracy of 90 degree cut as drawn in Fig. 18.

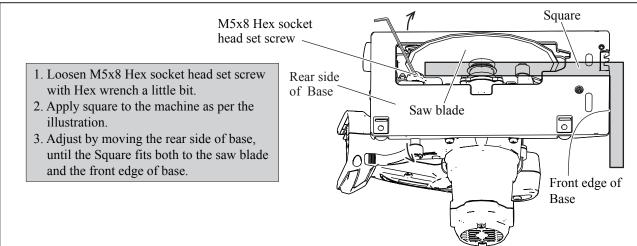
Fig. 18



[4]-2. Adjusting Accuracy of Parallel of Base to Saw blade

Mounting Saw blade to the machine, set the machine to the lowest possible position to obtain the max. cut depth. But, do not attach Battery to the machine.

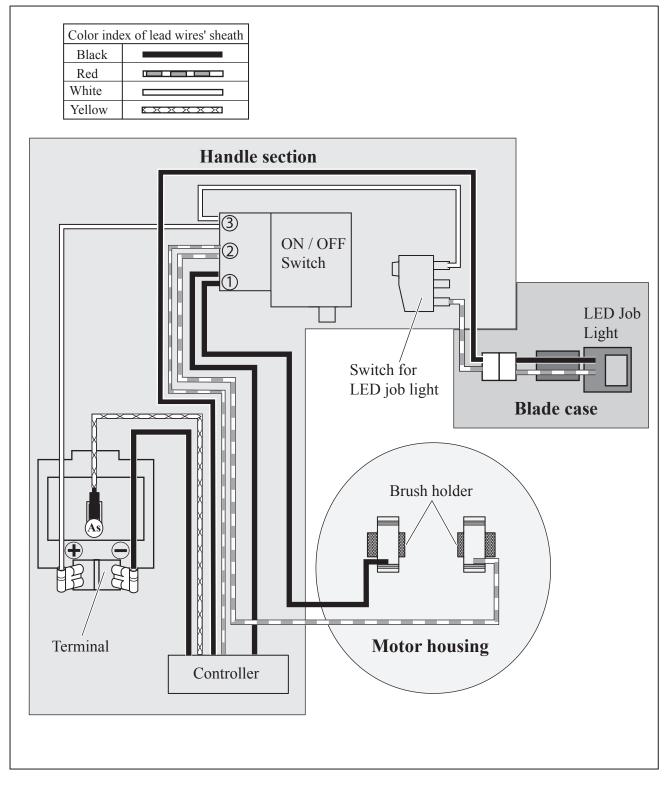
Adjust accuracy of parallel of Base to saw blade as drawn in Fig. 19.



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Circuit diagram

Fig. D-1



Wiring diagram

Fig. D-2

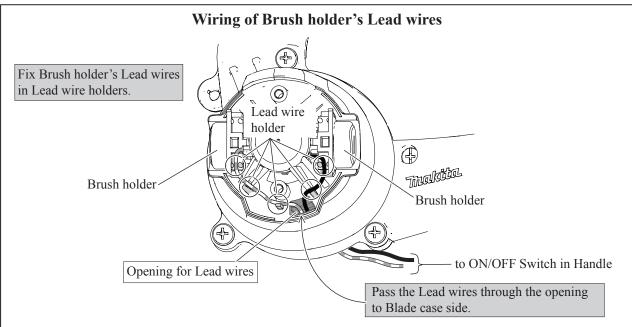
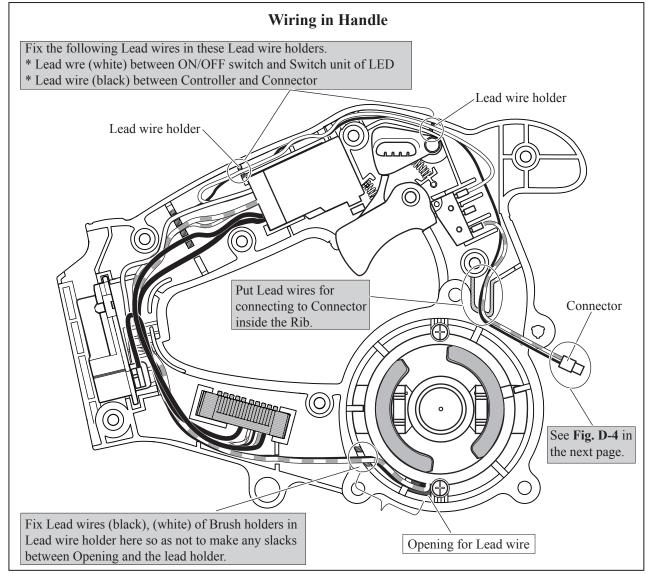
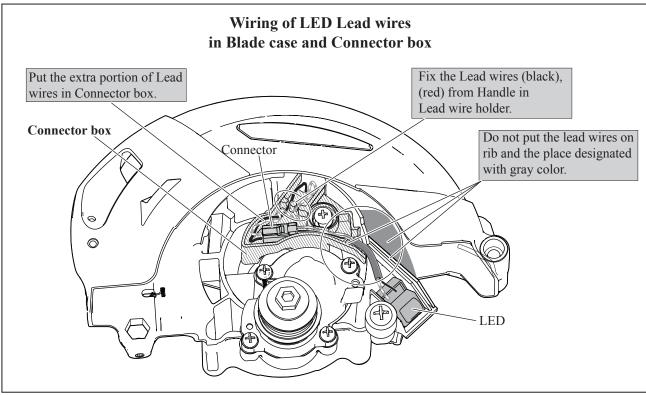


Fig. D-3



Wiring diagram





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