

# T ECHNICAL INFORMATION



PRODUCT

Models No. ▶ LS1040F

Description ▶ Miter saw 255mm (10")

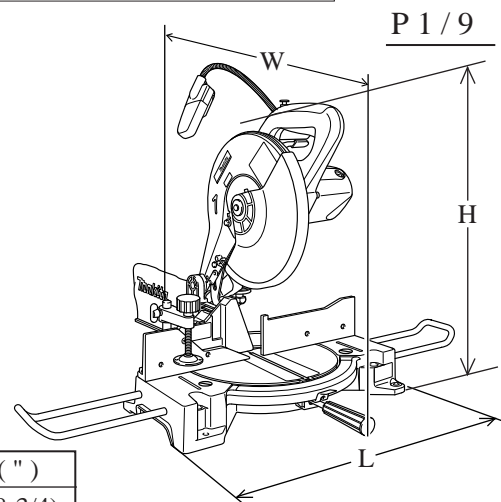
## CONCEPTION AND MAIN APPLICATIONS

Model LS1040F is advanced version of Model LS1040.

Maintain all the advantage of LS1040, plus fluorescent lamp with inverter (Light up wide range and easy to watch the cutting line in dimly-lit place.)

It's brief benefits are

- \*Higher rigidity of all over the body
- \*More accurate cut
- \*Bevel cut (left only)
- \*More efficient chip/sawdust collection
- \*More stable cutting by holding material more widely with sub fence



Dimensions : mm ( " )	
Length ( L )	476 (18-3/4)
Height ( H )	532 (21)
Width ( W )	* 530 (20-7/8)

\* from grip 32 to lever 100

## ► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
110	15	50 / 60	1,650	1,000	2,300
120	15	50 / 60	1,650	1,000	2,300
220	7.9	50 / 60	1,650	1,000	2,300
230	7.5	50 / 60	1,650	1,000	2,300
240	7.2	50 / 60	1,650	1,000	2,300

Blade	Diameter : mm (")	255 (10) - 260 (10-1/4)
	Arbor : mm (")	15.88 (5/8) for North America, 25.4mm (1) for Others 30mm (1-3/16) for Europe
No load speed (min <sup>-1</sup> = rpm)		4,600
Protection from electric shock		by double insulation
Electric brake		Yes (only for high voltage area)
Lock off switch		Yes
Cord length : m (ft)		2.0 m (6.5) for Australia 2.5 m (8.2) for others
Net weight : Kg (lbs)		11.6 (25.5)

Capacity with : mm (") \* The equipped saw blade : 255mm (10') in diameter

Miter angle	Bevel angle	
	0°	45° (left)
0°	90.5 x 95 (5-9/16 x 3-3/4)	48 x 95 (1-7/8 x 3-3/4)
	69 x 130 (2-3/4 x 5-1/8)	35 x 130 (1-3/8 x 5-1/8)
45° (left and right)	90.5 x 67 (5-9/16 x 2-5/8)	48 x 67 (1-7/8 x 2-5/8)
	69 x 92 (2-3/4 x 3-5/8)	35 x 92 (1-3/8 x 3-5/8)

## ► Standard equipment

- \* Dust Bag Ass'y -----1 pc.
- \* Switch Button (as a spare) ----2 pcs.
- \* Vise Ass'y (Vertical Vise)----1 pc.
- \* Triangular Rule-----1pc.
- \* Sub Plate Assembly -----1 pc.
- \* T.C.T. Saw Blade 255-----1 pc.
- \* Socket Wrench 13-----1 pc.
- \* Holder 255 -----2 pcs.

< Note > The standard equipment for the tool shown may differ from country to country.

## ► Optional accessories

- \* Vise Ass'y (Horizontal Vise)
- \* Ring 15.88 for the saw blade with arbor, 25.4mm
- \* Holder set
- \* Crown molding stopper set
- \* Ring 16 for the saw blade with arbor, 25mm
- \* Set plate
- \* Various T.C.T. saw blades
- \* Ring 16 for the saw blade with arbor, 30mm
- \* Fluorescent tube

## ► Features and benefits

### Fluorescent Lamp

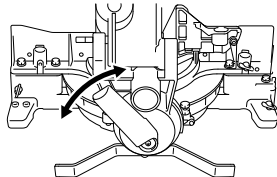
- For a clear view of cutting lines, uses the inverter type that can throw bright light widely on and around workpiece.
- On-Off switch for exclusive use of lamp works independently; independent of the On-Off switch for the motor.
- Service life of the lamp = 2,000 hours on average (Do not always refer to this figure because the service life depends on various conditions.)

Accurate cut thanks to stiff body

Lower noise

Bevel cut 45° left

Arm can be tilted simply by loosening lever.

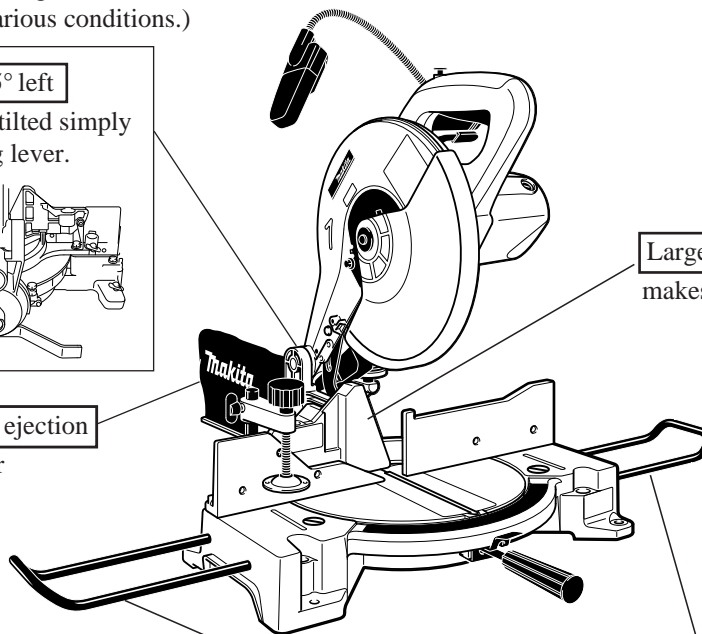


More efficient chip/saw dust ejection

Less ejection toward operator

Large, Movable Sub Fence

makes more stable operation.



Holder for long materials

## ► Comparison of products

Specifications		Model No.	
		LS1040F	LS1040
Type of lamp		Fluorescent lamp 5W	No
Blade	Type (teeth)	T.C.T. Saw Blade (32)	
	Diameter: mm(inch)	255 (10) - 260 (10-1/4)	
	Arbor: mm(inch)	15.88 (5/8) mounting spindle plus 25.4 (1) or 30 (1-3/16) diameter of Ring	
Power Input : W		1,650	
No load speed (rpm = min-1)		4,600	
Protection from electric shock		Double insulation	
Lock off switch		Yes	
Electronic brake		Yes (only for high voltage area)	
Cord length: m(ft)		2.5 (8.2)	
Net weight (kg [lbs])		11.6 (25.5)	

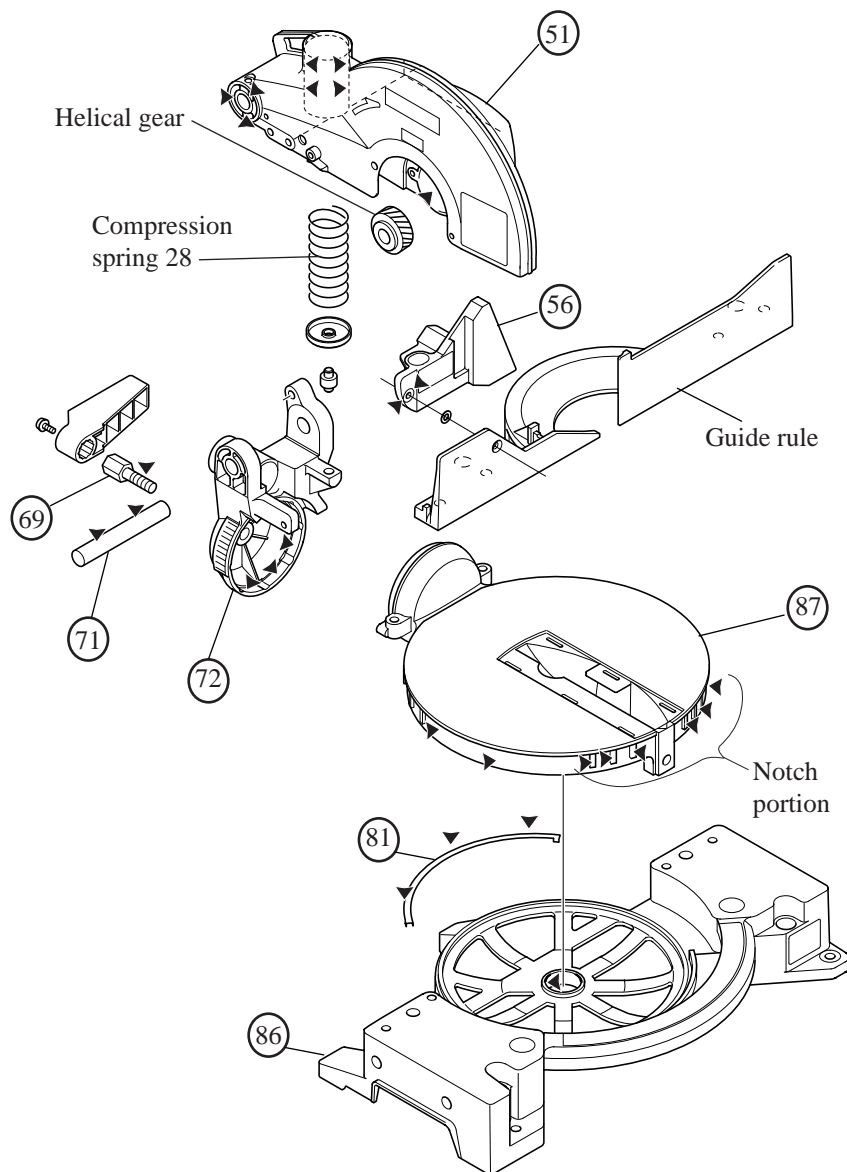
< Note >

The specification may differ from country to country.

< Note > Take off saw blade from the machine for your safety, before repairing or maintenance !

< 1 > Lubrication

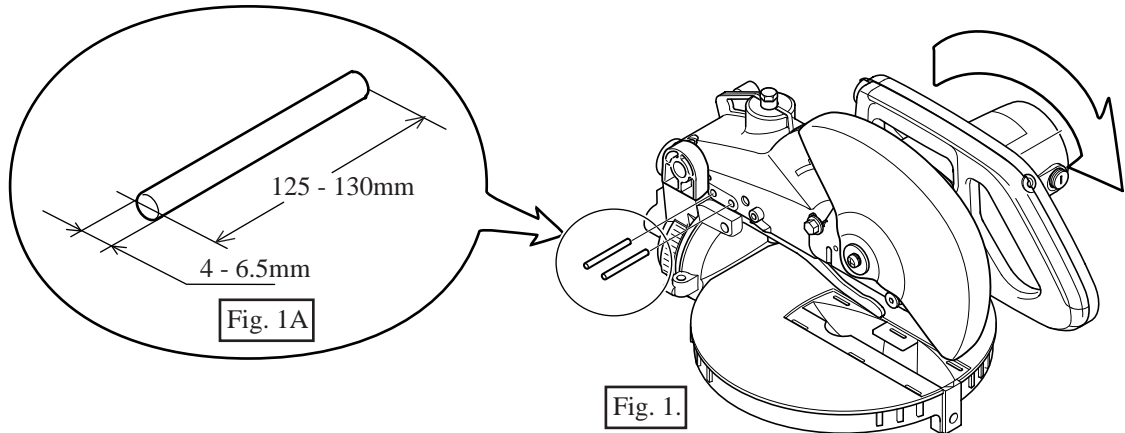
Apply MAKITA grease N. No.1 to the following portions marked with black triangle to protect parts and product from unusual abrasion.



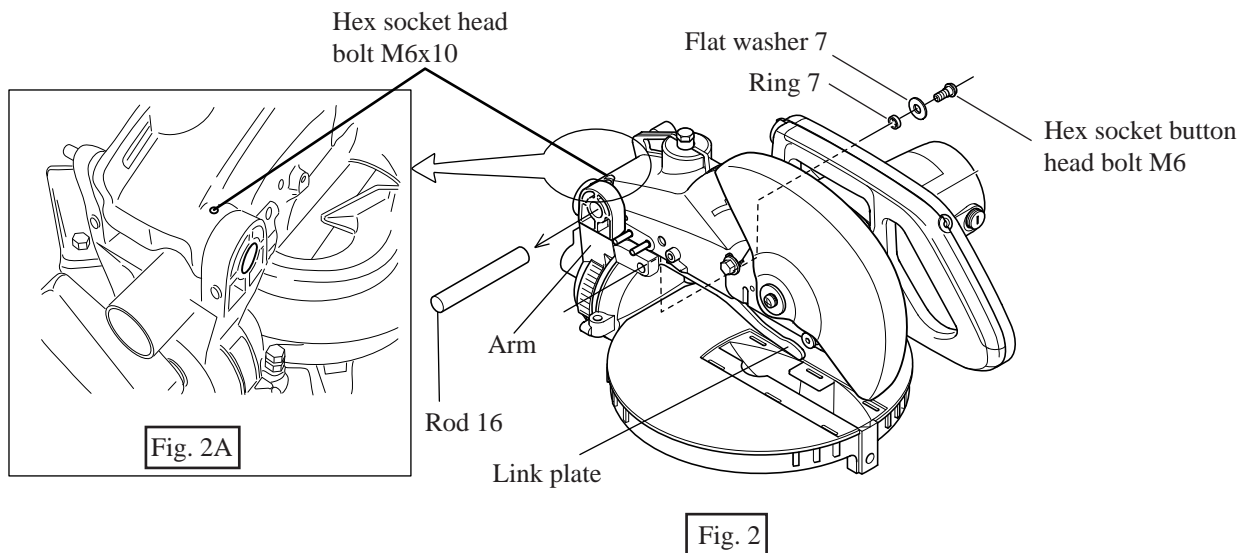
Item No.	Parts	The portion to be lubricated
51	Blade case	The portion which contacts (72) arm. The cylindric portion to which compression spring 28 is inserted. The space for helical gear : Apply here by approx. 12g ( 0.42 oz.).
56	Sub fence	The pivot portion where contacts with guide rule.
69	Hex bolt M10	The threaded portion.
71	Rod 16	The whole portion
72	Arm	The portion where contacts (87) turn base.
81	Slide plate	The whole portion
86	Base	The pivot portion where accepts (87) turn base.
87	Turn base	The notch portion for setting miter angle. The portion where contacts (86) base.

## < 2 > Removing compression spring 28 and motor unit

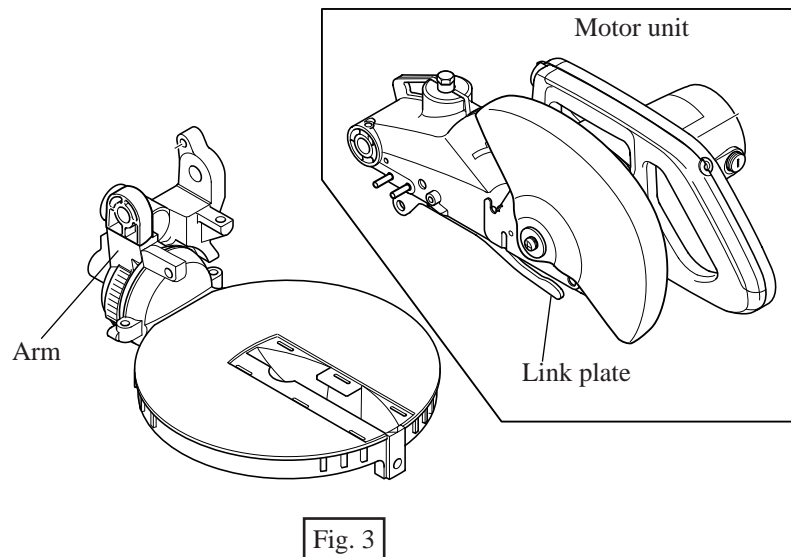
- 1) Holding the motor unit at the lowest position, insert 2 pcs. of bars into the side holes of blade case. See Fig. 1.  
(The size of bars are 125 - 130mm in length and 4 - 6.5mm in diameter as illustrated in Fig. 1A.)  
So, compression spring 28 and spring holder cannot spring out of blade case, when separating blade case from arm.



- 2) Disconnect the linkage of link plate with arm by unscrewing hex socket button head screw M6. See Fig. 2.  
Hex socket head bolt M6x10 is located on blade case for fixing rod 16 which works as an axis. Loosen this hex socket head bolt. See Fig. 2A. And take off rod 16 as illustrated in Fig. 2.



- 3) Separate motor unit from arm. See Fig. 3.



- 4) Put the block between the inserted 2 bars. And set the separated motor unit on the turn base of arbor press, as illustrated in Fig. 4.
- 5) Pressing the block with arbor press, take off the 2 bars. See Fig. 5.

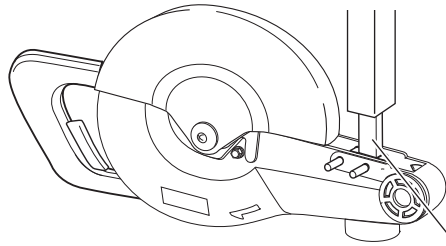


Fig. 4.

Block

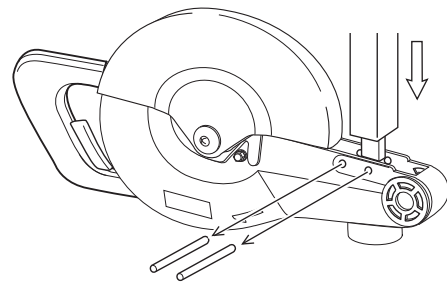


Fig. 5.

- 6) Slowly reduce the pressure on the block. And then, spring holder and compression spring 28 can be removed from motor unit. See Fig. 6 and Fig. 7.

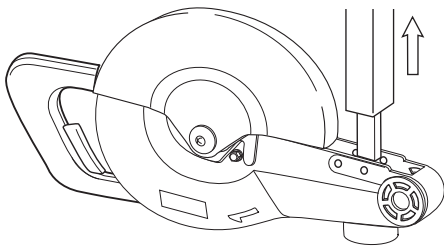


Fig. 6.

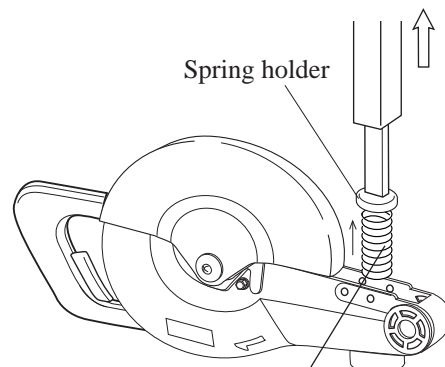


Fig. 7.

Spring holder

Compression spring 28

< Caution >

When reducing the pressure on the block, keep the motor unit so firmly that it does not tilt or slip from the turn base. Otherwise, spring holder and compression spring 28 spring out of the motor unit, which can injure you.

< 3 > Mounting compression spring 28 and motor section

- (1) Insert compression spring 28 into the cylindric hole of blade case and put spring holder on the compression spring 28. And then, put the block on the spring holder. See Fig. 8.
- (2) Press down spring holder and compression spring 28 with arbor press, to the position where the bars can be inserted into the side holes of blade case. See Fig. 9.  
Keeping spring holder and compression spring 28 in the pressed condition, insert 2 bars into the side holes of blade case. See Fig. 10.

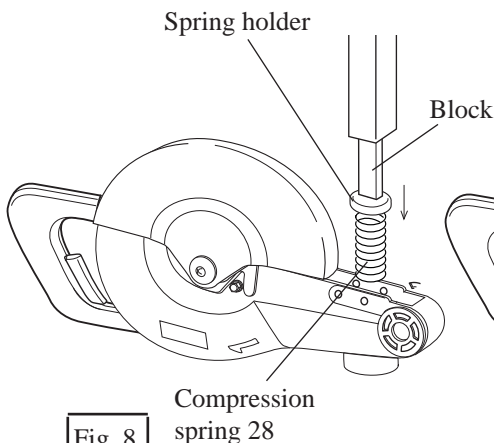


Fig. 8.

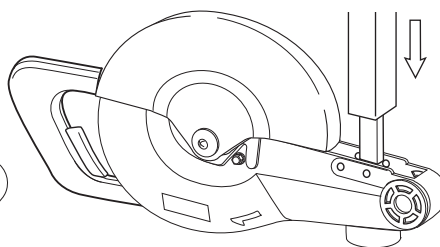


Fig. 9.

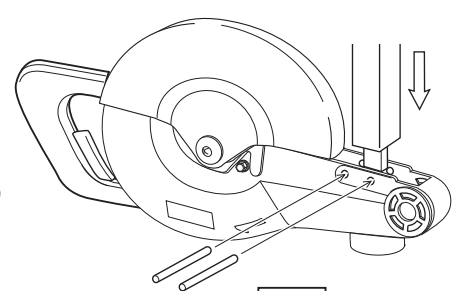
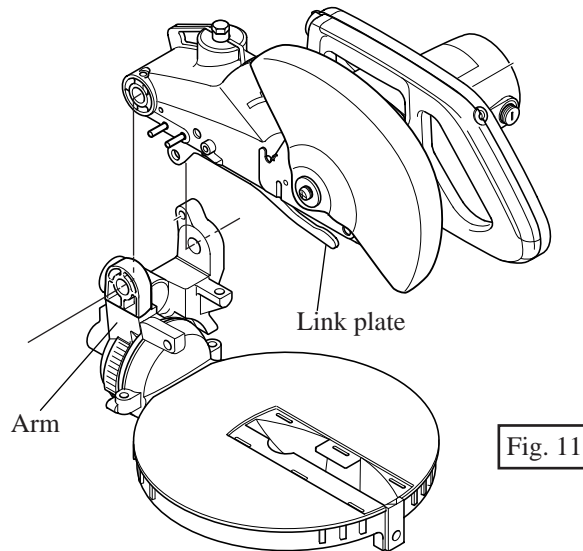
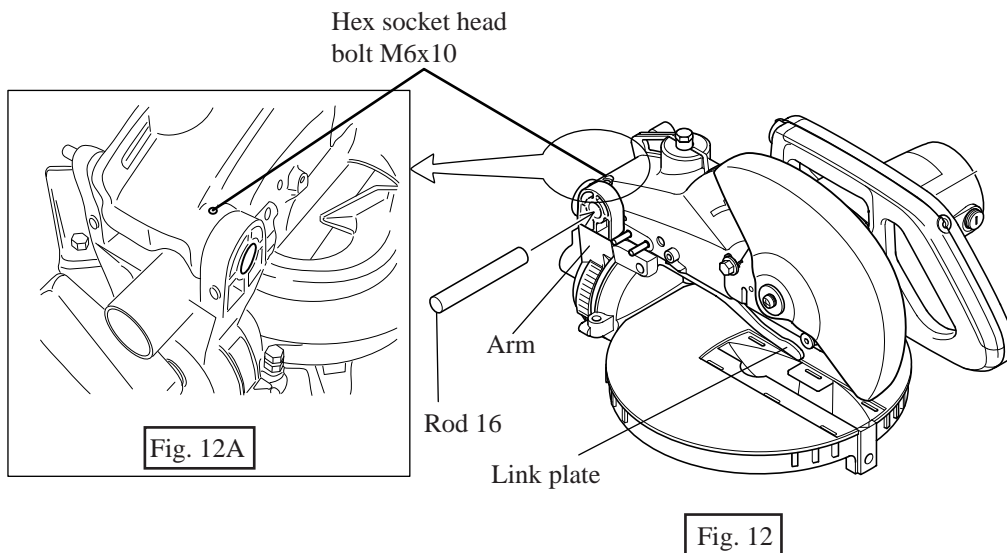


Fig. 10.

- (3) Mount the motor unit to arm aligning the arm's holes with blade cases holes for inserting rod 16. See Fig. 11.

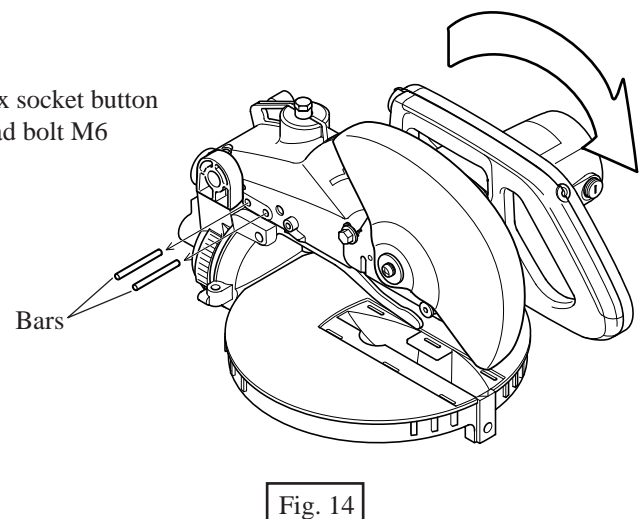
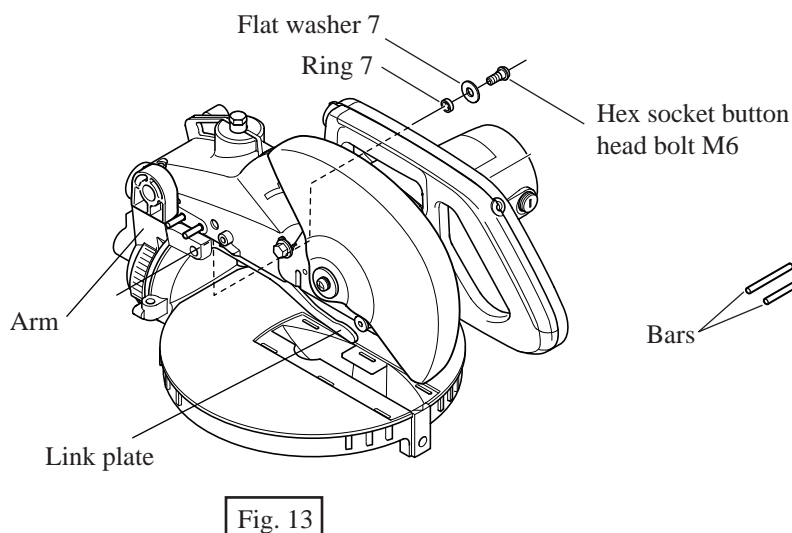


- (4) Insert rod 16 which works as an axis for swinging motor unit. See Fig. 12. And fasten rod 16 with hex socket head bolt M6x10. See Fig. 12A.



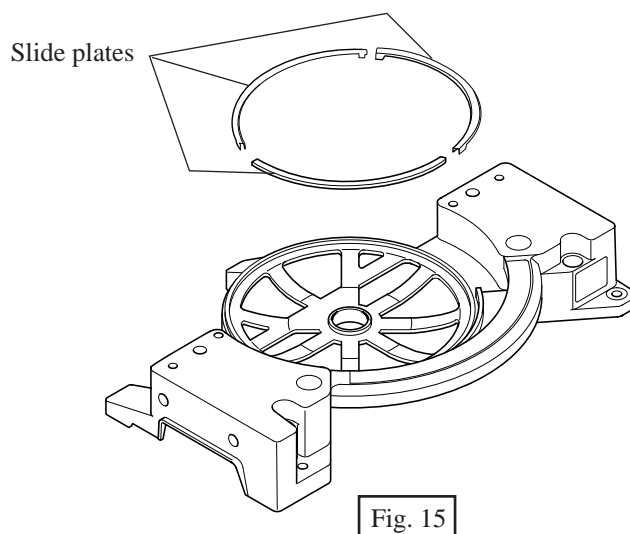
- (5) Fasten link plate to arm with hex socket button head bolt M6. See Fig. 13. And then, pressing down the motor unit, take off 2 bars from the side holes of blade case. See Fig. 14.

<Note> Apply adhesive to hex socket button head bolt M6.



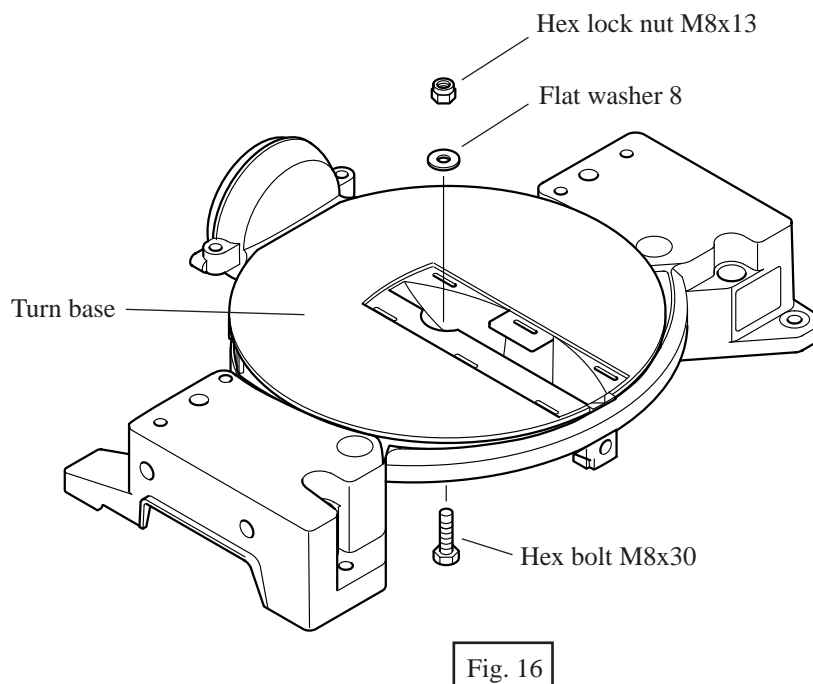
**< 4 > Mounting slide plates**

Aligning with the circle portion (on which turn base slides.) of base, mount slide plates as illustrated in Fig. 15.  
And then, apply MAKITA grease N. No.1 to the slide plates.

**< 5 > Fastening of hex lock nut M8x13**

Turn base has to be so fastened and adjusted with hex lock nut M8x13 that it can turn without trembling.  
See Fig. 16.

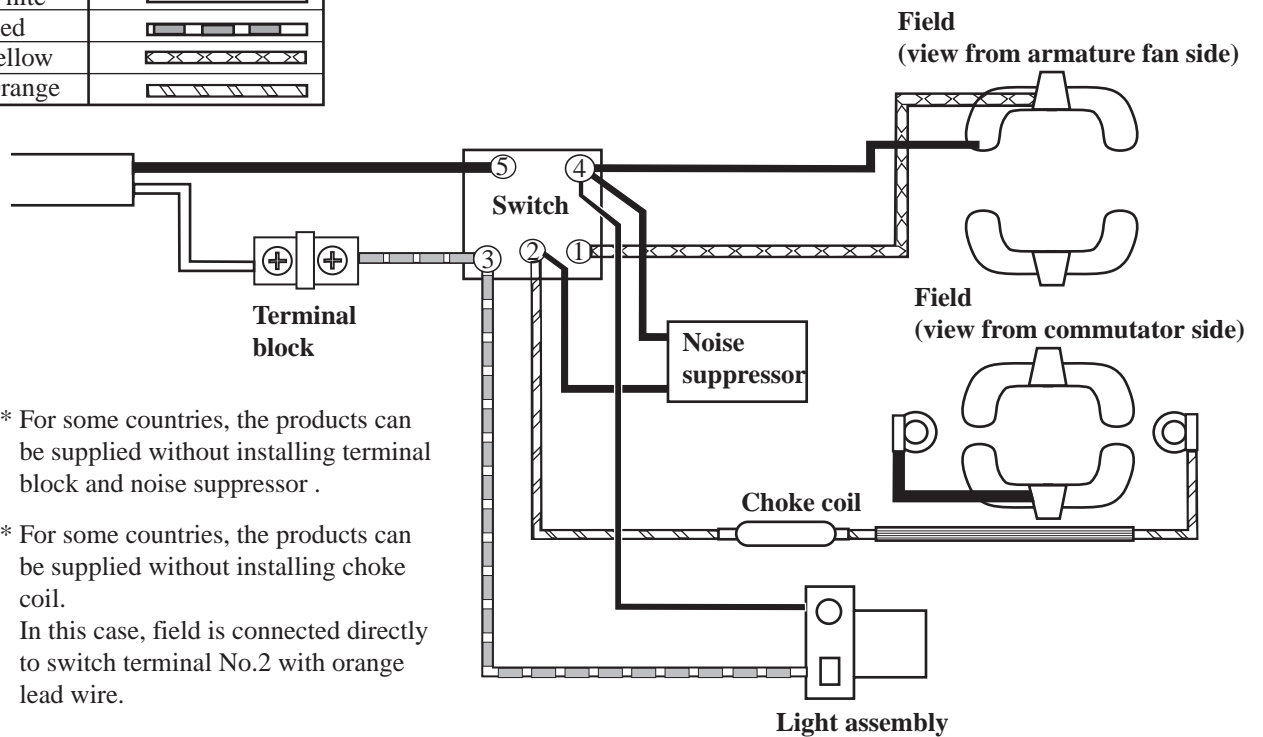
For adjusting and fastening, employ socket wrench 13 which is supplied with this product.





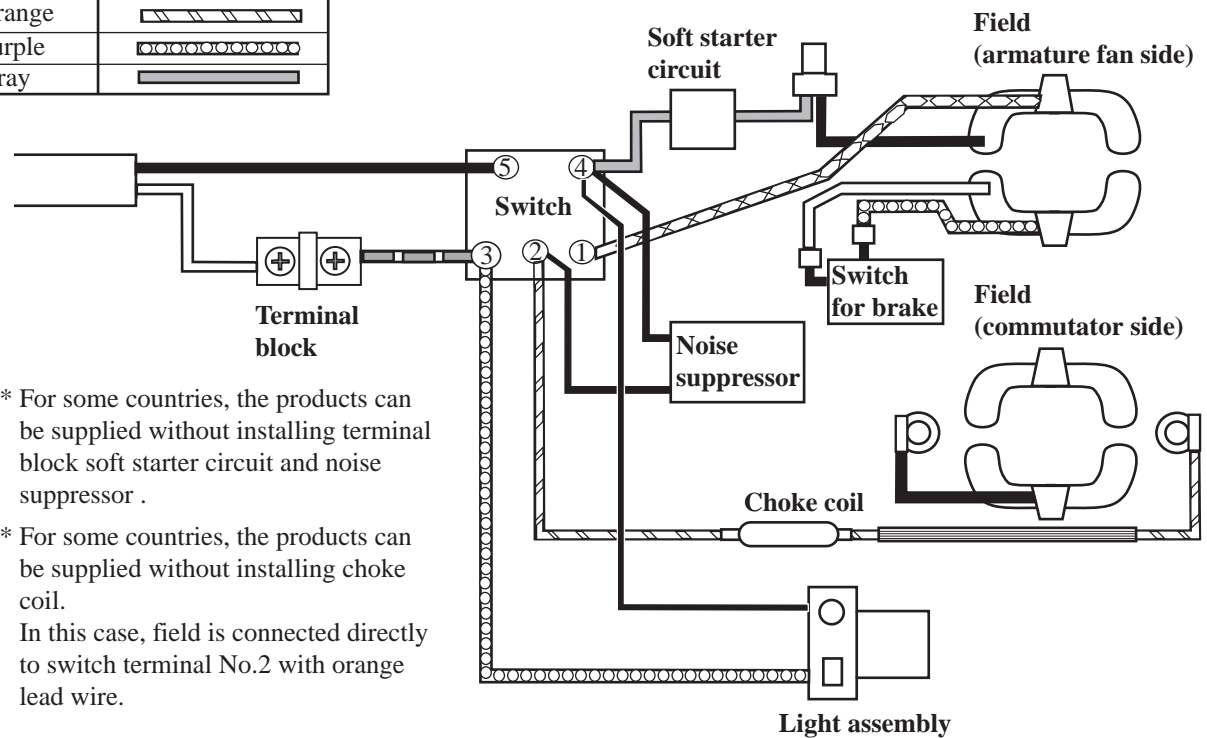
Color index of lead wires	
Black	
White	
Red	
Yellow	
Orange	

**For low voltage**



**For high voltage**

Color index of lead wires	
Black	
White	
Red	
Orange	
Purple	
Gray	





<Note>

For some countries, the products can be supplied without installing terminal block soft starter circuit, choke coil and noise suppressor .

