

# TECHNICAL INFORMATION



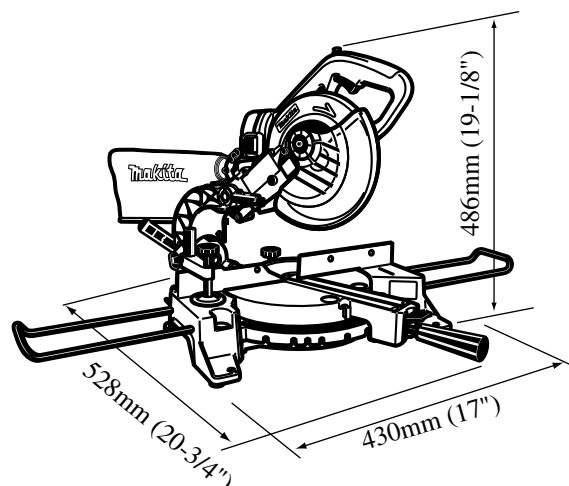
Product

**For Models** ▶ LS800D

**Description** ▶ 210mm (8-1/4") Cordless Miter Saw

## CONCEPTION AND MAIN APPLICATIONS

LS800D is the 18V Cordless version of Model LS0810 (210mm Miter saw) developed for works at the site far from A/C supplies. This model is equipped with Electric Brake for quick stop.



## ► Specifications

Motor			DC 18V magnet motor
Battery			Battery 1822(Ni-Cd,18V,2.0Ah) for LS800DWA Battery 1833(Ni-MH,18V,2.2Ah) for LS800DWB
Charger used for this Model			DC1801
No load speed			2000 rpm.
Electronic features	for fixed cutting speed		No
	for soft start		No
Blade diameter			210mm(8-1/4")-216mm(8-1/2")
Arbor diameter	Europe		30mm(1-3/16")
	Other Countries		25.4mm(1")
Bevel Angle			left 45° - 0°
Miter Angle			left 52° - right 52°
	Bevel Angle	Miter Angle	
Cutting Capacity	0°	0°	61mm(2-3/8") x 122mm(4-13/16")
		left and right 45°	61mm(2-3/8") x 85mm(3-3/8")
	left 45°	0°	45mm(1-3/4") x 122mm(4-13/16")
		left and right 45°	45mm(1-3/4") x 85mm(3-3/8")
Net weight			9.3Kg(20.5lbs) including the weight of battery

## ► Standard equipment

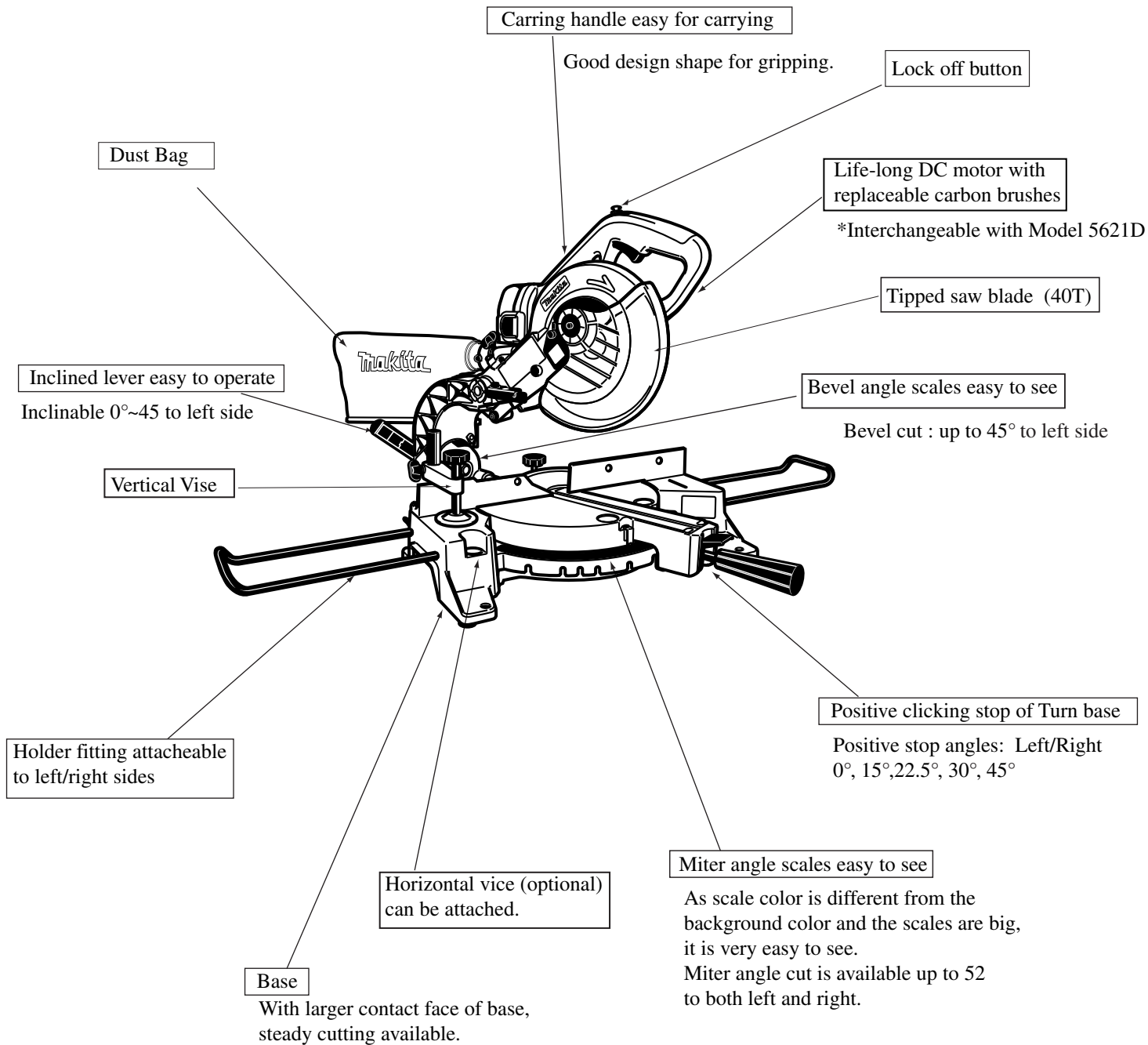
Vertical vise 1  
Lock-off button(spare) 2  
Dust bag 1  
Chip saw blade 216 (40T) 1  
Holder metal fittings 2  
Battery Cover 1  
Box wrench 10 1  
Sub Plate Set 1  
Set square(triangle) 1

## ► Optional accessories

Holder assembly  
Horizontal vise  
Set plate  
Holder fitting set (for long stock)  
Chip saw blade(various types)  
Battery 1822(Ni-Cd,18V,2.0Ah)  
Battery 1833(Ni-MH,18V,2.0Ah)  
Fast charger DC1801

## Sales Points

Rechargeable 18V cordless machine  
 Enough power to cut stock, rafter, etc.  
 With electric brake.  
 Miter angle cut : available up to 52° to both left and right.  
 Tool for changing of saw blade can be stored in the space on the machine.



## ► Capacity

Working volume per full-charged battery with tipped saw blade 216mm 40T standard equipment.

### Conditions

1. Material : Spruce
2. Size of material : 38mm x 89mm (2" x 4")
3. Tool : Tipped Saw 216mm (8-1/2") 40T

Bevel Angle	Number of stocks to cut
90°	approx. 85pcs.
45°	approx. 35pcs.

\*"Number of stocks to cut" differs by conditions of battery and application.

## ► Repair

### (1) GREASE APPLICATION

Apply Makita grease on the following rotating/sliding surfaces before assembling.

Up/Down shaking fulcrum of Blade case, Arm, Rod 16-100

Arm rotation part: Arm, Sub arm,

L/R rotating support and sliding parts of Turn base: Turn base,

Boss in the center of base, Slide plate,

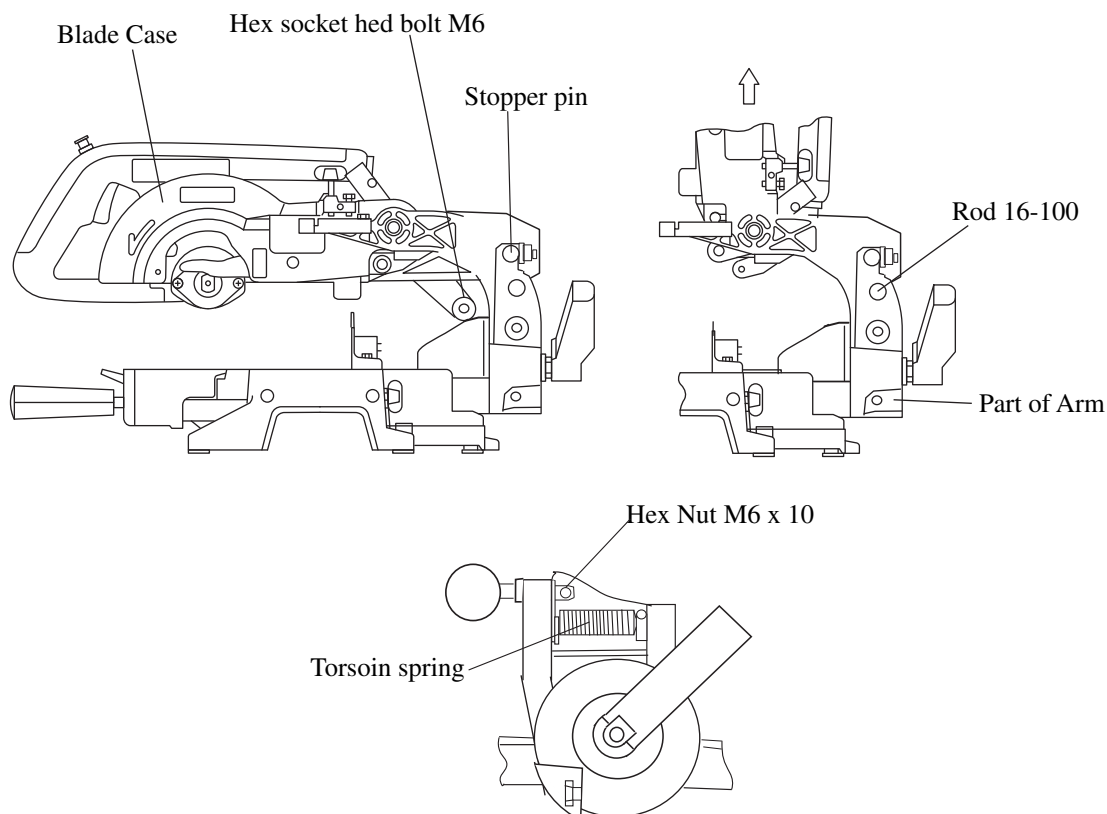
Rotating and Open/Close parts of Safety cover: Center plate, Spiral spring 26, Tip of Link plate

### (2) ASSEMBLY/DISASSEMBLY OF BLADE CASE( Motor part in the body)

[Disassembly]

Remove Blade , Safety cover, and Dust nozzle before disassembling.

- 1) Bring the cutting unit (motor section) to the blocking point (top position), and then push Stopper pin in.
- 2) Remove Hex. socket head bolt M6 fixing Link plate , and loosen Hex. Nut M6x10 fixing Rod 16-100.
- 3) Gripping Blade case (Motor section in the body) with hand, pull Stopper pin and raise the body slowly. Where Torsion spring 28 does not work, pull Rod 16-100 and take off Blade case from Arm.

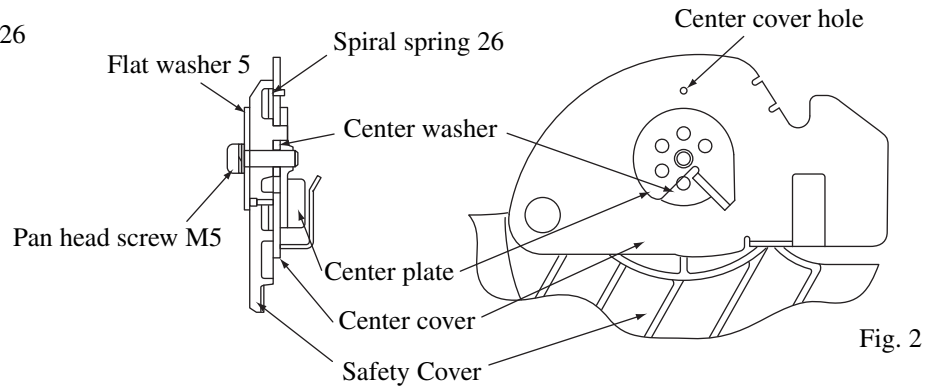
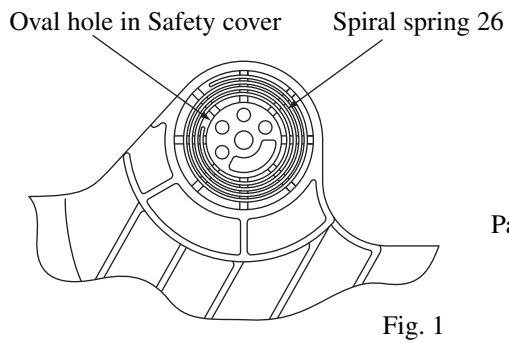


[Assembly]

Reverse procedure of disassembly.

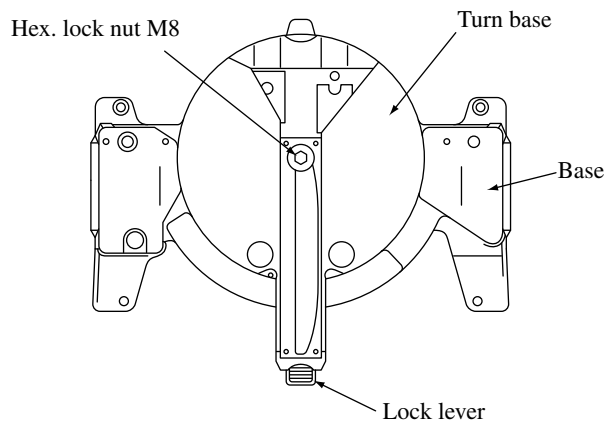
### (3) ASSEMBLY OF SAFETY COVER

- 1) Insert Spiral spring 26 into the oval hole in Safety cover , making spring's tip meet the hole.
- 2) Making Center washer meet four bosses in Safety cover , and attach it. (See Fig.1)
- 3) By putting the tip of Spiral spring 26 into Center cover hole, attach Center cover as shown in Fig. 2.
- 4) Attach Center plate, making it meet four bosses in Safety cover, and tighten it with Pan head screw M5.



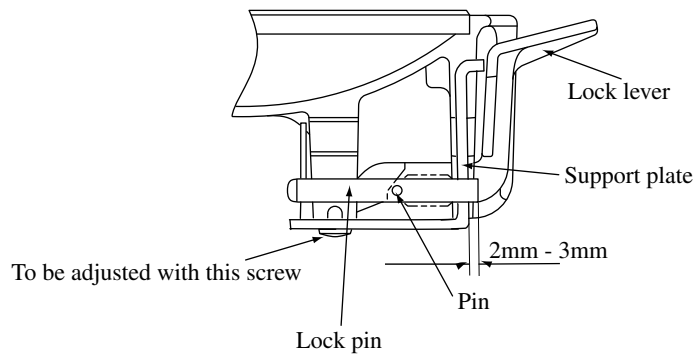
### (5) Fastrening of Hex bolt M8 on teh Turn Base

Hex Lock Nut M8 has to be so fastened that the turn base can move smoothly without trembling.



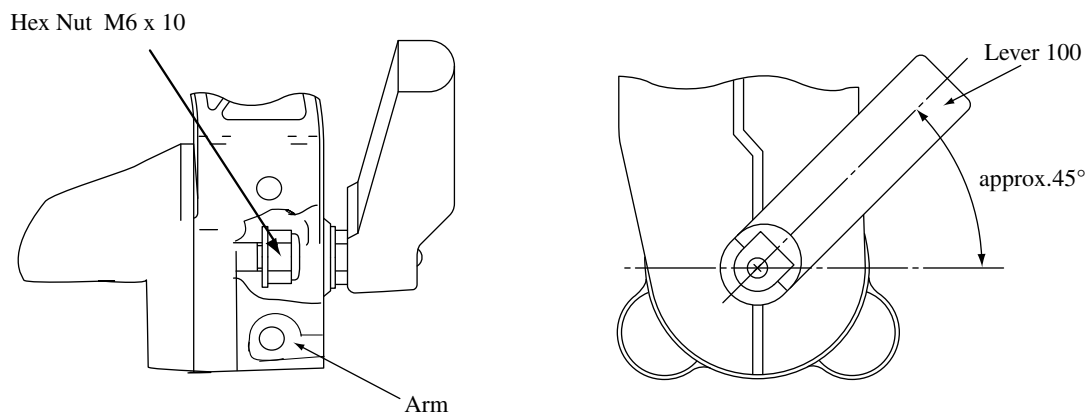
#### (6) ASSEMBLY OF POSITIVE LOCK UNIT ON TURN BASE

When Lock pin is located in the groove on the turn base, lock pin has to be so installed that it stand out from the support plate by 2mm - 3mm.



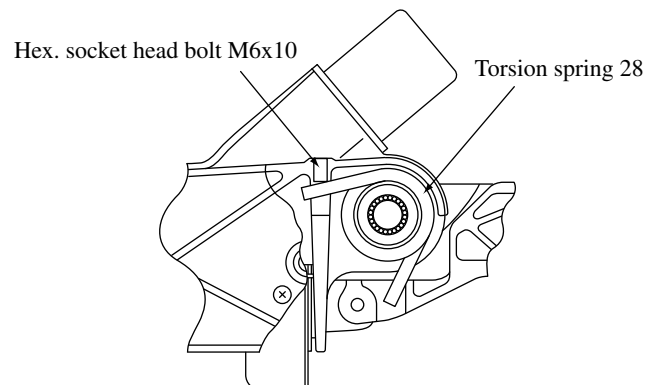
#### (7) ASSEMBLY OF ARM

- 1) Adjust torque of Hex. lock nut M10-17 so that Arm may slide smoothly without trembling.
- 2) Attach Lever 100 that fixes Arm so that it is placed in the position as in the figure when Arm is fixed.



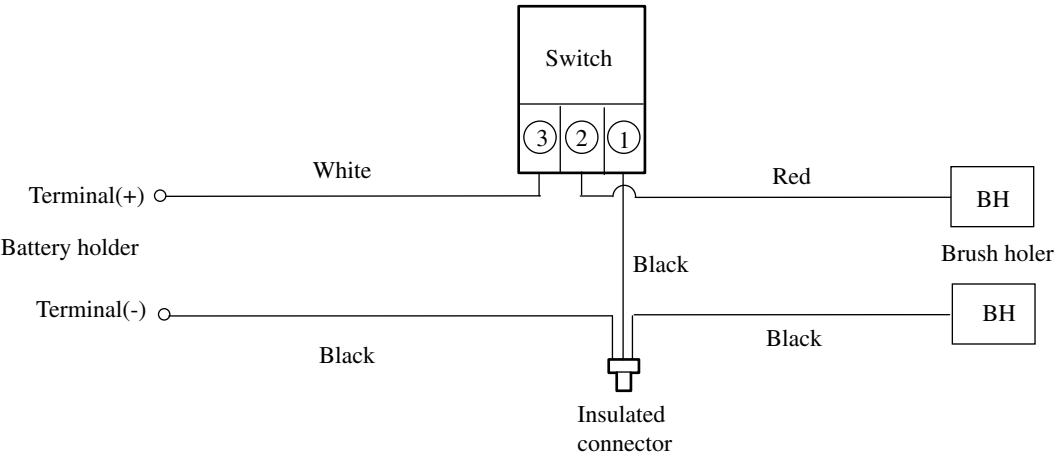
#### (8) ADJUSTMENT OF THE STRENGTH OF TORSION SPRING 28

Adjust the strength of Torsion spring 28 by tightening/loosening Hex. socket head bolt M6x10 so that the cutting head may return to the top dead center smoothly from any position.



► **Circuit diagram**

Lead wire has to be nonnectee as below.



► **Interchangeability**

The following spare parts have an interchangeability with the existing models.

Section	Spare parts	The existing model No.
Gears	Spindle	LS0711
Arm	Lever 100	LS1012, LS1013
	Hex Nut M10 - 7 Hex Lock Nut M10-17	LS0711, LS1212
Turn base	Hex Lock Nut M8 - 13	LS1040, LS0711
Safety Covre	Spiral spring 26 Screw M5	LS0810, LS0711 LS1012, LS1013, LS1212, LS0711 LS1030
	Center Washer	LS07011
Other Section	Cap 20, Adjust Screw M6x10, Switch buton	LS1012, LS1212, LS0711
	Dust nozzle, O Ring 35, O Ring 5,	LS1012, LS1013, LS0711
	Stopper Pin, Knob, Grip 32	LS1030
	Lock Off Lever Pin 5	LS0711 LS0711, LS1030