CONCEPT AND MAIN APPLICATIONS

Models LS1017L and LS1018L are developed as more cost-competitive 255/260mm (10’’/10-1/4”) Slide compound saws.

The specification differences between both models are:
- LS1017L: Bevel range of 45 degrees left and 5 degrees right
- LS1018L: Bevel range of 45 degrees left and right

Additionally, both models are equipped with laser marker for easy trace of cutting line.

Specification

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Cycle (Hz)</th>
<th>Continuous Rating (W)</th>
<th>Max. Output (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>13.6</td>
<td>50/60</td>
<td>1,430</td>
<td>---</td>
</tr>
<tr>
<td>120</td>
<td>13.0</td>
<td>50/60</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>220</td>
<td>6.8</td>
<td>50/60</td>
<td>1,430</td>
<td>---</td>
</tr>
<tr>
<td>230</td>
<td>6.5</td>
<td>50/60</td>
<td>1,430</td>
<td>---</td>
</tr>
<tr>
<td>240</td>
<td>6.3</td>
<td>50/60</td>
<td>1,430</td>
<td>---</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>LS1017L</th>
<th>LS1018L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saw blade:</td>
<td>Diameter</td>
<td>Hole diameter</td>
</tr>
<tr>
<td>mm (”)</td>
<td>European countries: 30 (1-3/16), North America: 15.88 (5/8), Other countries: 25.4 (1)</td>
<td></td>
</tr>
<tr>
<td>No load speed: min-1 = rpm</td>
<td>4,200</td>
<td>4,300</td>
</tr>
<tr>
<td>Electric brake</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Electronic control</td>
<td>Soft start</td>
<td>Yes</td>
</tr>
<tr>
<td>Lock-off switch</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Protection against electric shock</td>
<td>Laser marker</td>
<td>Yes*1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Double insulation</td>
</tr>
<tr>
<td>Cord length: m (ft)</td>
<td>2.5 (8.2)</td>
<td></td>
</tr>
<tr>
<td>Weight according to EPTA-Procedure 01/2003: kg (lbs)</td>
<td>European countries<em>2: 19.5 (43.0), Other countries</em>3: 19.5 (42.9)</td>
<td>European countries<em>2: 19.9 (43.9), Other countries</em>3: 19.8 (43.5)</td>
</tr>
</tbody>
</table>

*1 Uses dry-cell battery as the power source.
*2 with TCT saw blade and “Blocking mechanism at the rest position”
*3 with TCT saw blade

See next page for the cutting capacity.

Standard equipment

Vertical vise .......... 1 pc  TCT saw blade ............................. 1 pc
Dust bag ................. 1 pc  Socket wrench (with Hex wrench) .... 1 pc
Triangular rule .......... 1 pc  Holder set .............................. 2 pcs

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

Optional accessories

Holder set  Horizontal vise  Holder assembly
TCT saw blades  Stand set

* Illustration is LS1018L.
## Specification (cont.)

### [Cutting Capacities]

**North America**
Cutting capacities [Height x Width in mm ("')] with 255mm (10") saw blade

<table>
<thead>
<tr>
<th>Miter angle</th>
<th>Bevel angle</th>
<th>45 degrees left</th>
<th>0 degree</th>
<th>45 degrees right (LS1018L only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 degree</td>
<td></td>
<td>50 x 305 (2 x 12)</td>
<td>91 x 305 (3-5/8 x 12)</td>
<td>31 x 305 (1-1/4 x 12)</td>
</tr>
<tr>
<td>45 degrees left &amp; right</td>
<td>50 x 215 (2 x 8-1/2)</td>
<td>91 x 215 (3-5/8 x 8-1/2)</td>
<td>31 x 215 (1-1/4 x 8-1/2)</td>
<td></td>
</tr>
<tr>
<td>60 degrees right</td>
<td></td>
<td>91 x 150 (3-5/8 x 5-7/8)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**All countries except North America**
Cutting capacities [Height x Width in mm] with 260mm (10-1/4") saw blade

<table>
<thead>
<tr>
<th>Miter angle</th>
<th>Bevel angle</th>
<th>45 degrees left</th>
<th>0 degree</th>
<th>45 degrees right (LS1018L only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 degree</td>
<td></td>
<td>50 x 310</td>
<td>91 x 310</td>
<td>31 x 310</td>
</tr>
<tr>
<td>45 degrees left &amp; right</td>
<td>50 x 220</td>
<td>91 x 220</td>
<td>31 x 220</td>
<td></td>
</tr>
<tr>
<td>60 degrees right</td>
<td></td>
<td>91 x 153</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
REPAIR MANUAL

Slide Compound Miter Saw
LS1018L
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CAUTION: Repair the machine in accordance with “Instruction manual” or “Safety instructions”.

[1] NECESSARY REPAIRING TOOLS

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Description</th>
<th>Use for</th>
</tr>
</thead>
<tbody>
<tr>
<td>1R034</td>
<td>Bearing Setting Plate 12.2</td>
<td>press-fitting Bearing 6001 to Rotor</td>
</tr>
<tr>
<td>1R036</td>
<td>Bearing Setting Plate 17.2</td>
<td>assembling Bearing 6004 to Output shaft</td>
</tr>
<tr>
<td>1R080</td>
<td>Arbor Press</td>
<td>press-fitting Bearing</td>
</tr>
<tr>
<td>1R173</td>
<td>Retaining Ring R Pliers</td>
<td>connecting/disconnecting Terminal connected to Carbon brush house</td>
</tr>
<tr>
<td>1R207</td>
<td>45-degree Set Square</td>
<td>adjusting accuracy of 45 degrees</td>
</tr>
<tr>
<td>1R208</td>
<td>90-degree Set Square</td>
<td>adjusting accuracy of 90 degrees</td>
</tr>
<tr>
<td>1R269</td>
<td>Bearing Extractor</td>
<td>remove Bearing 6003</td>
</tr>
<tr>
<td>1R291</td>
<td>Retaining Ring S and R Pliers</td>
<td>remove Retaining ring</td>
</tr>
</tbody>
</table>

[2] LUBRICATION

Apply lubricant to the portions designated with the following arrows to protect parts and product from unusual abrasion.

<table>
<thead>
<tr>
<th>Arrow</th>
<th>Type of lubricant</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Makita grease SG No.0</td>
<td>approx. 10 g</td>
</tr>
<tr>
<td></td>
<td>Makita grease N No.1</td>
<td>a little</td>
</tr>
<tr>
<td></td>
<td>Liquid gasket</td>
<td>a little and flat</td>
</tr>
</tbody>
</table>

Gear box section

After Gear box is attached, apply grease while turning Gear.

Apply on whole surface.
Repair

[2] LUBRICATION (cont.)

Support arm section

Fig. 2

Up blade guard section

Fig. 3
Repair

[2] LUBRICATION (cont.)

Base section

Fig. 4

Lower blade guard section

Fig. 5

Link section

Fig. 6
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(1) Remove two Carbon brushes. And unscrew two M4x12 Cross head screws to remove Lock lever.

(2) To release Power supply cord, unscrew two M4x18 Cross head screws and two Cord clamps.

(3) Unscrew four M6x50 Cross head screws and remove Motor housing and Handle section from the machine.
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(4) Unscrew eight M4x16 Tapping screws and remove Left handle.

Fig. 10

Fig. 11

ASSEMBLING

(5) Remove Brake system switch key, Switch lock bracket, Switch lock plate and Switch handle when exchanging the Switch.

(1) Attach Switch lock plate with Switch handle spring to Right handle. And attach Switch handle.

Fig. 12
Repair

[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

(2) Attach Switch lock bracket to Right handle.

Set Switch lock bracket so that its protrusion is between the rib on Handle L and Switch handle.

Brake system switch key

Switch lock bracket

Rib on Handle L

Protrusion

Switch handle

Right handle

Brake system switch

Switch lock plate

Fig. 13

(3) Assemble Left handle to Right handle by tightening eight M4x16 Tapping screws.

Right handle

Motor housing

Motor housing

Left handle

M4x16 Tapping screw

Fig. 14

(4) Assemble Motor housing and Handle section to the machine by reversing the disassembly procedure.


DISASSEMBLING

(1) Unscrew two M4x16 Tapping screws and remove Motor rear cover. And disconnect cables to remove Soft starter.

Motor rear cover

To make assembly easier, mark connecting point with permanent marker when removing Terminal.

Cables

M4x16 Tapping screw

Soft starter

Fig. 15
[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(2) Remove Baffle ring from Motor housing.

Fig. 16

(3) Disconnect the terminal connected to Carbon brush house with 1R173 or a similar tool such as long-nose pliers.

Fig. 17

Reference

From Soft starter side, loosen two M5x8 H.S.screws that secure Carbon brush house with a hex wrench. And remove Carbon brush house by pressing it with a slotted screwdriver as shown below.

Fig. 18
[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(2) Unscrew two M5x70 tapping screws and remove Stator by tapping Motor housing with a resin hammer.

ASSEMBLING

(1) Assemble Stator to Motor housing.

(2) Connect Cables to Soft starter while checking the wiring diagram.
[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

(3) Connect Terminal to Carbon brush house with 1R173 or a similar tool such as long-nose pliers.

Fig. 22

(4) Attach Stator with two M5x70 Tapping screws. And set Baffle ring.

Fig. 23
Repair

[3] DISASSEMBLY/ASSEMBLY


**DISASSEMBLING**

(1) Unscrew two M5x18 Cross head screws and remove Rotor from Gear box.

(2) Remove Retaining ring 16 from Rotor with 1R291.

(3) Remove Bearing 6003 with 1R269.

**ASSEMBLING**

(1) Put 1R034 on the Bearing 6001 and press 1R034 with 1R080 (Arbor press), and then Bearing 6001 is pressed.

(2) And attach Absorber ring to Bearing 6001.
[3] DISASSEMBLY/ASSEMBLY


ASSEMBLING

(3) Insert Rotor into Gear box. And fasten the Shaft fix cover with two M5x18 Cross head screws.

![Fig. 30](image)

M5x18 Cross head screw

---


DISASSEMBLING

(1) Unscrew four M6x22 H.S.bolts and remove Gear box.

![Fig. 31](image)

M6x22 H.S.bolt

(2) Unscrew two M6x15 Countersunk head bolts with No.3 Phillips screwdriver.

![Fig. 33](image)

M6x15 Countersunk head bolt

---

Note

If Gear box is not removed easily, use a slotted screwdriver to pry it off.

![Fig. 32](image)

Slotted screwdriver

(3) Remove Bearing cover by prying it off with a slotted screwdriver.

![Fig. 34](image)

Slotted screwdriver

Bearing cover
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(4) Unscrew two M4x10 Countersunk head bolts and remove Bearing press plate.

Fig. 35

(5) Remove Retaining ring 14 with 1R291.

Fig. 36

(6) Remove Gear by hand from Bearing cover.

Fig. 37

(7) Remove Bearing 6004 and Output shaft by pressing Bearing cover by hand.

Fig. 38

(8) Set Bearing 6004 on 1R217 and press the bearing with Arbor press. And then, Bearing 6004 is removed.

Fig. 39
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

Reference

<table>
<thead>
<tr>
<th>Bearing press plate</th>
<th>M4x10 Countersunk head bolt</th>
<th>M6x15 Countersunk head bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output shaft ring 15.88</td>
<td>Bearing 6004</td>
<td>Bearing cover</td>
</tr>
<tr>
<td>Shaft washer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fig. 40

Note

Clean the left over mechanical oil seal with scrapers and remove grease on the surface. If dust remains, it may causes a grease leakage.

Fig. 41

ASSEMBLING

(1) Press Bearing 6004 to Output shaft as shown below.

Fig. 42

(2) Attach Output shaft and Bearing 6004 to Bearing cover by pressing by hand.

Fig. 43
Repair

[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

(3) Fix Bearing press plate with two M4x10 Countersunk head bolts.

![Fig. 44](image)

(4) Set Gear to Output shaft.

![Fig. 45](image)

(5) Fix Retaining ring 14 to Output shaft with 1R291.

![Fig. 46](image)

(6) Attach Bearing cover to Gear box.

![Fig. 47](image)

Lubrication

After Gear box is attached, apply grease while turning Gear.

![Fig. 48](image)
Repair

[3] DISASSEMBLY/ASSEMBLY
[3] -5. Gear lock pin

DISASSEMBLING

(1) Remove Retaining ring 10.5x1 with a small slotted screwdriver.

ASSEMBLING

(1) Set Gear lock pin with Gear lock spring to Gear box.

(2) Fix Retaining ring 10.5x1 with two slotted screwdrivers as shown below.
Repair

[3] DISASSEMBLY/ASSEMBLY


DISASSEMBLING

(1) Unscrew M6 Locknut and remove Lower blade guard.

ASSEMBLING

(1) Set Guard spring to Lower blade guard. And set Guard fix plate to Lower blade guard while engaging Guard spring to the hook on Guard fix plate.

(2) Set Bowl plate to Guard fix plate so as not to pinch Guard spring and secure Bowl plate with M6 Locknut. And then, check that Guard fix plate works smoothly.
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(1) Remove Lower blade guard. (See Fig. 53.)

(2) Fix Up blade guard at the top dead point by pressing Pin C. And, remove M6x20 H.S.bolt with glue.

(3) Remove Retaining ring 5 and Thin flat washer 6 with a slotted screwdriver. And, remove Link from Up blade guard.
Repair

[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

(1) Set Link to Up blade guard. And put Thin flat washer 6 into Pin and fix Link with Retaining ring 5 using a tool such as long-nose pliers.

(2) Set Link sleeve and fasten Link with M6x20 H.S.bolt with glue and Thin flat washer 6.
Repair

[3] DISASSEMBLY/ASSEMBLY


DISASSEMBLING

(1) To release Power supply cord, unscrew two M4x18 Cross head screws and two Cord clamps.

Fig. 61

(2) (If not removing Motor housing and Gear box)
Fix Up blade guard with Pin C at the lower dead point. And, loosen two M6x12 Lock screws that fix Connection shaft.

Fig. 62

(3) Remove Gear box. (See Fig. 31.)

(4) Fix Up blade guard with Pin C at the top point.
And, unscrew three M4x12 Cross head screws that fix Battery box and Laser cord tube. There is no need to remove the other screws.

Fig. 63

(5) Remove M6x20 H.S.bolt with glue to release Link.

Fig. 64
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(1) Fix Up blade guard with Pin C at the top dead point. And, loosen M6x15 H.S. screw to release the tension on Torsion spring.

(2) And, remove Connection shaft with a plastic hammer and 1R243.

ASSEMBLING

(1) Set Up blade guard at right angle to Up blade guard bracket.

(2) Remove Torsion spring and Location tube. And, remove Up blade guard.

Up blade guard can be fixed with Pin C.
Repair

[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

(1) Set Torsion spring with Location tube inside, and set Connection shaft and tap it with a plastic hammer.

![Fig. 69](image1)

(2) Set Up blade guard at the lower dead point and fix Connection shaft with two M6x12 Lock screws.

![Fig. 70](image2)

(3) Fix Up blade guard with Pin C. And fix Link with M6x20 H.S.bolt with glue.

![Fig. 71](image3)

(4) Fix Battery box and Laser cord tube with three M4x12 Cross head screws.

![Fig. 72](image4)

(5) Fix Power supply cord with two Cord clamps and two M4x18 Cross head screws.

![Fig. 73](image5)

Note

Check that Up blade guard can move to top point with the reaction force of Torsion spring. If not, tighten the spring with M6x15 H.S. screw to strengthen the tension on the spring.
Repair

[3] DISASSEMBLY/ASSEMBLY

**DISASSEMBLING**

(1) Unscrew four Cross head screws and remove Sliding bar rear cover.

![Fig. 75](image)

**Note**

If Sliding bar rear cover can not be removed easily, tap it with a plastic hammer as shown below.

![Fig. 76](image)

(2) Loosen Hex nut with Bevel locking handle and remove Bevel locking handle.

![Fig. 78](image)

(3) Loosen two M5x20 cross head screws and remove Sliding bracket cover.

![Fig. 79](image)

![Fig. 77](image)
Repair

[3] DISASSEMBLY/ASSEMBLY


DISASSEMBLING

(4) Unscrew M4x12 Cross head screw and remove Bevel pointer.

Fig. 80

M4x12 Cross head screw

(5) Remove Hex nut.

Fig. 81

Hex nut

(6) Remove two Big flat washer 10x26x2.5, Surface bearing and Bowl type plate.

Fig. 82

Big flat washer 10x26x2.5
Bowl type plate Surface bearing

(7) Remove M10 Locknut.

Fig. 83

M10 Locknut

(8) Remove Support arm and the following parts.

Fig. 84

Support arm Working table Flat washer 10 Clamp plate M10 Locknut

(9) Unscrew three M6x20 H.S.bolts and remove 45° Limit bracket.

Fig. 85

Support arm M6x20 H.S.bolt 45° Limit bracket 45° Limit bracket
Repair

[3] DISASSEMBLY/ASSEMBLY

DISASSEMBLING

(10) Remove Retaining ring 10 with 1R291.

ASSEMBLING

(1) Assemble the following parts by reversing the disassembly procedure.

(2) Attach 45° Limit bracket with three M6x20 H.S.bolts.

Note

If 90° block spring is worn by the contact with adjustment screw, replace it with a new one.

Set 90° block spring as shown above.
[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

(3) Set Friction ring and insert Support arm to Locking rod. And insert Clamp plate and two Flat washer 10, and then temporarily tighten M10 Locknut.

![Diagram showing assembly process](image)

Clamp plate should be set with the big inner diameter side to Support arm side.

Adjustment of the tightening force of Locknut will be done after attaching Up blade guard.

When assembling, be sure to clean Friction ring and around it. And apply Makita grease N No.1 a little on Friction ring.

(4) Temporarily attach Bevel pointer with M4x12 Cross head screw.

![Diagram showing bevel pointer attachment](image)

![Diagram showing working table and support arm](image)

M4x12 Cross head screw

(5) Insert Sliding bar into Support arm.

![Diagram showing sliding bar insertion](image)

Before inserting Sliding bar, apply grease to Linear bearing (inside Support arm) to make Sliding bar moves smoothly.

(6) Set Sliding bar rear cover by tapping it with a plastic hammer.

![Diagram showing sliding bar rear cover installation](image)

Plastic hammer

(7) Fasten Sliding bar rear cover with two M5x15 Cross head screws and two M5x12 Cross head screws.
[3] DISASSEMBLY/ASSEMBLY

ASSEMBLING

**Adjustment**

With Motor housing and blade are attached, adjust tightening force of M10 Locknut so that the body wouldn’t fall down at inclination of 10° and fall down at inclination of 25°.

(8) After adjustment, put Bowl type plate, two Big flat washer 10x26x2.5 and Surface bearing.

(9) Fix Sliding bracket cover with two M5x20 Cross head screws.

(10) Tighten M10 Locknut using Bevel locking handle.

(11) Set Bevel locking handle in the direction as shown below.

Fig. 96

Fig. 97

Fig. 98

Fig. 99

Fig. 100
Repair

[3] DISASSEMBLY/ASSEMBLY
[3] -10. Working table and Base

DISASSEMBLING

(1) Remove Sub fence and Right sub fence by loosening three M10 Locknut.

(2) Remove four M8x30 Hex bolts and remove Rip fence.

(3) Loosen six M4x12 Cross head screws and remove Table inserts.

(4) Loosen M5x12 Cross head screw and remove Miter pointer.

(5) Turn Base upside down and remove M10 Locknut and Big flat washer 10.

(6) Unlock Working table and remove it from Base.
[3] DISASSEMBLY/ASSEMBLY (cont.)

(7) Remove Pivot shaft by tapping it with a plastic hammer.

(8) Remove two Friction plates.

(9) Remove Miter locking handle by turning it counterclockwise.

(10) Remove Lock shaft A.

(11) Unscrew two M4x15 Cross head screws and remove Lock plate B and Working table locking bracket.

(12) Unscrew two M4x12 Cross head screws and remove Lock plate A.

(13) Remove Press plate, Lock spring and Lock shaft B.
Repair

[3] DISASSEMBLY/ASSEMBLY
[3] - 10. Working table and Base (cont.)

ASSEMBLING

(1) Set Lock spring and Lock pin to Lock shaft B and attach to Working table.

(2) Press Lock shaft B in the direction of the arrow as shown below and set Press plate.

(3) Fix Lock plate A with two M4x12 Cross head screws.

(4) Fix Working table locking bracket and Lock plate B with two M4x15 Cross head screws.

Note

Do not tighten Miter locking handle too much, or it may lead to the breakage of Lock plate B.
Repair

[3] DISASSEMBLY/ASSEMBLY
[3] -10. Working table and Base (cont.)

ASSEMBLING

(5) Insert Pivot shaft to Working table with a plastic hammer.

(6) Set two Friction plates to Working table.

(7) Push press plate to unlock, and attach Working table to Base.

Note: If Friction plate floats, Working table wouldn’t be stable.

(8) Tighten and fix M10 Locknut from the back side of Base. Tighten the Nut so that Working table would not rattle and moves smoothly.

(9) Attach two Table inserts while being careful of direction and fix them with six M4x12 Cross head screws.

(10) Fix Rip fence with four M8x30 Hex bolts.

(11) Fix Sub fence and Right sub fence with M10 Locknut.
Repair

[4] ADJUSTMENT


Adjust Bevel locking handle as shown below to make it to be shifted by hand.

When Blade is fixed

When adjusting

Fig. 126


Adjustment can be carried out following the procedure.

1. Adjustment for 90° angle

(1) Set Up blade guard to the lower dead point and fix it with Pin C.

(2) Set 1R208 in the position as shown below and adjust until the gap between blade and 1R208 is cleared.

If there is a gap in the position circled in line, loosen M6x28 Hex bolt by turning a hex wrench counterclockwise.

If there is a gap in the position circled in line, tighten M6x28 Hex bolt by turning the wrench wrench clockwise.

After adjustment, move Support arm from side to side and confirm that there is no gap.

Set Bevel pointer to “0” and tighten M4x12 Cross head screw.

Completed!
### 2. Adjustment for 45° angle

1. Set blade to the lower dead point and fix it with Pin C.
2. Remove Sub fence and Right sub fence.
3. Set 1R207 in the position as shown below and adjust until the gap between blade and 1R207 is cleared.

If there is a gap in the position circled in line, loosen M6x28 Hex bolt by turning a hex wrench counterclockwise.

If there is a gap in the position circled in line, tighten M6x28 Hex bolt by turning the wrench clockwise.

After adjustment, move Support arm from side to side and confirm that there is no gap.

Adjust on the opposite side in the same way.

**Completed!**

Fig. 128
Repair

[4] ADJUSTMENT

3 Rip fence

(1) Remove Sub fence and Right sub fence.
(2) Loosen four M8x30 Hex bolts. And (③) is the supporting point for adjustment.
   Adjust Rip fence so that the angle between blade and Rip fence is 90°.

Fig. 129

(3) After adjustment, tighten bolts in the following order. Do not tighten them strongly because Rip fence may be out of place.

Fig. 130

(4) Confirm that the angle between blade and Rip fence is 90°.

4 Adjustment for the cutting range of blade

(1) Set Up blade guard at the lower dead point. And hold it with hand and adjust the cutting range of blade with M6x25 Hex bolt so that the edge of blade in the guide fence side and the Handle side is placed inside the range as shown below.

Fig. 131
Repair

[4] ADJUSTMENT

5 Adjustment for laser light

(1) Draw a line (right angle to Rip fence) on plywood.

(2) Align blade with the line.

(3) If blade cannot be aligned with the line, adjust the following settings.

- Adjustment for horizontal direction

- Adjustment for inclined light

Fig. 132

Fig. 133

Fig. 134

Fig. 135
Repair

[4] ADJUSTMENT

5 Adjustment for laser light

● The other case

Loosen H.S bolt. Set M4x12 H.S. bolt in the center on laser moving fix plate as shown below.

Turn laser to align light with the line.

Laser moving fix plate

Fig. 136
Repair

[5] Circuit diagram, Wiring diagram

### Color index of lead wires' sheath

<table>
<thead>
<tr>
<th>Color</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Gray</td>
<td></td>
</tr>
<tr>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td></td>
</tr>
</tbody>
</table>

### Fig. 137

- Carbon brush
- Line filter
- Soft starter
- Brake system switch
- Electric switch
- Terminal block (Power supply line)
- Power supply cord
- Capacitor
- Terminal block (Power supply line)

#### Stator Assembly

*View from the Carbon brush side*
[5] Circuit diagram, Wiring diagram
[5] -1.2. Wiring diagram

Overall wiring diagram

- Cord clamp
- Terminal block
- Brake system switch
- Electric switch
- Capacitor
- Motor housing complete

Note: Do not route the wires over the housing because the wires may be pinched.

- Motor housing
- Soft starter
- Line filter

Fig. 138

Fig. 139

Fig. 140

Fig. 141

Cable tie position

Bundle the wires of motor side with a cable tie.

Bundle all the wires with a cable tie.
[5] Circuit diagram, Wiring diagram
[5] - 1. 3. How to connect wires

**Electric switch**

![Electric switch diagram]

(1) Red ........ Stator assembly  
(2) Gray ...... Carbon brush holder  
    Soft starter C  
    Black ...... Terminal block (Power supply line with capacitor)  
(3) Gray ...... Power supply line  

**Terminal block**

![Terminal block diagram]

(1) Light blue ....... Power supply line  
(2) Blue ............... Soft Starter C  
    Black ............... Electric switch (2) (With Capacitor)  
(3) Brown ............. Power supply line  
(4) Gray ............... Electric switch (3)  

**Soft starter**

![Soft starter diagram]

A: Blue ............... Terminal block 2 (Power supply line)  
B: Blue ............... Stator assembly  
C: Gray ............... Electric switch (2)  
    Carbon brush holder

**Fig. 143**

**Fig. 144**

**Fig. 145**
Repair

[5] Circuit diagram, Wiring diagram

Stator Assembly
<View from the Carbon brush side>

<table>
<thead>
<tr>
<th>Color index of lead wires’ sheath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
</tr>
<tr>
<td>White</td>
</tr>
<tr>
<td>Brown</td>
</tr>
</tbody>
</table>

![Circuit diagram](image)

- Power supply cord
- Terminal block (Power supply line)
- Soft starter
- Brake system switch
- Carbon brush
- Line filter
- Capacitor
- Electric switch

Fig. 146
Repair

[5] Circuit diagram, Wiring diagram
[5] - 2. 2. Wiring diagram

Overall wiring diagram

Fig. 147

Motor housing
Soft starter
Line filter

Fig. 148
Fig. 149
Fig. 150

Cable tie position

Bundle the wires of motor side with a cable tie.

Bundle all the wires with a cable tie.

Note: Do not route the wires over the housing because the wires may be pinched.
Repair

[5] Circuit diagram, Wiring diagram
[5] - 2. 3. How to connect wires

Electric switch

(1) Red .......... Stator assembly
(2) Black ...... Carbon brush holder
    Soft starter C
    Black ...... Terminal block 2 (Power supply line with capacitor)
(3) Black ...... Terminal block 4 (Power supply line)

Fig. 152

Terminal block

(1) Brown .......... Power supply line
(2) White .......... Soft Starter A
    Black .......... Electric switch (2) (With Capacitor)
(3) Blue .......... Power supply line
(4) Black .......... Electric switch (3)

Fig. 153

Soft starter

A: White .......... Terminal block 2 (Power supply line)
B: White .......... Stator assembly
C: Black .......... Electric switch (2)
    Carbon brush holder

Fig. 154
Repair

[5] Circuit diagram, Wiring diagram

Stator Assembly
<View from the Carbon brush side>

<table>
<thead>
<tr>
<th>Color index of lead wires’ sheath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
</tr>
<tr>
<td>White</td>
</tr>
</tbody>
</table>

Power supply cord
Terminal block (Power supply line)

Soft starter
A B C

(1)
(2) Electric switch
(3)

Fig. 155
Repair

[5] Circuit diagram, Wiring diagram
[5] -3. 2. Wiring diagram

Overall wiring diagram

Fig. 156

Motor housing
Soft starter

Cable tie position

Bundle the wires of motor side with a cable tie.
Bundle all the wires with a cable tie.

Note: Do not route the wires over the housing because the wires may be pinched.
Repair

[5] Circuit diagram, Wiring diagram
[5] -3. 3. How to connect wires

**Electric switch**

![Electric switch diagram]

1. Red .......... Stator assembly
2. Black ...... Carbon brush holder
   - Soft starter C
3. Black ...... Terminal block 4 (Power supply line)

**Terminal block**

![Terminal block diagram]

1. White .......... Power supply line
2. White .......... Soft starter A
3. Black .......... Power supply line
4. Black .......... Electric switch (3)

**Soft starter**

![Soft starter diagram]

- A: White .......... Terminal block 2 (Power supply line)
- B: White .......... Stator assembly
- C: Black .......... Electric switch (2)
   - Carbon brush holder

**Fig. 160**

**Fig. 161**

**Fig. 162**