

T ECHNICAL INFORMATION



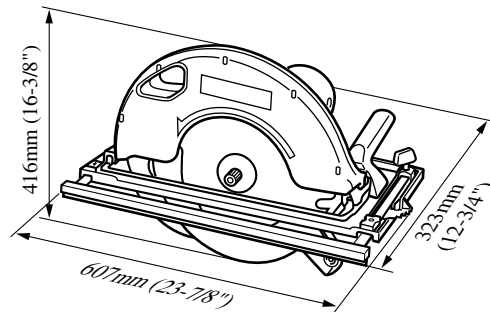
New Tool

Models No. ▶ 5143R

Description ▶ 355mm(14") Circular saw

CONCEPTION AND MAIN APPLICATIONS

5100BR is an improved model of the 5100BR and it is equipped with a riving knife. It corresponds to CENELEC regulation and has been developed aiming for export product especially for European market. It's main features are; large base, sturdy body, motor brake function, easier operability.



► Specifications

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
100					
110	21	50	2200	1350	2500
115	15	50	1650	900	2500
220	10	50	2200	1350	3400
230	10	50	2200	1350	3400
240	9.6	50	2200	1350	3400

No load speed per minute	2700/min	
Driving shank	Blade outer dia	ø355mm(14")
	Inner dia	ø30mm(1-3/16")
Max. cutting capacities	at 90°	50mm(2") - 130mm(5-1/8")
	at 45°	35mm(1/8") - 90mm(3-1/2")
	at 30°(or 60°)	23mm(7/8") - 60mm(2-3/8")
Power supply cord	5m	

When *355mm saw blade is used.

► Standard equipment

- Guide Rule
- Hex. wrench
- Chip saw blade 355 (20 blades; equipped in body)
- Joint set (Europe only)

► Optional accessories

- Chip saw blade 355, Joint set (for mounting dust catcher)

► Repair

For removal of the base and disassembly of the gears, remove each part in the order as shown in Figure 1 below.

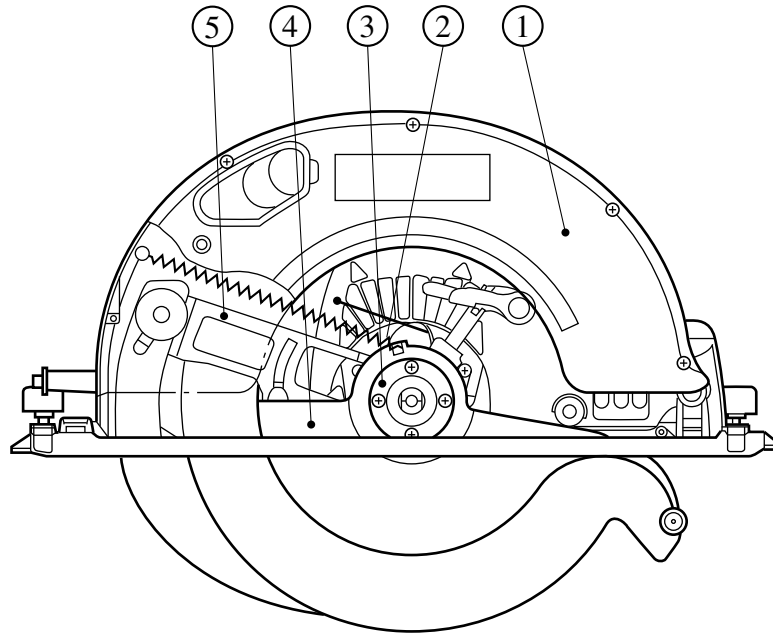
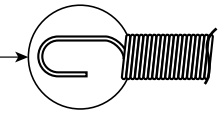
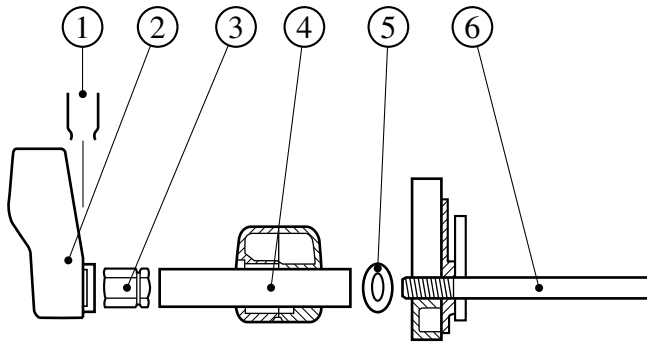


Figure 1

- 1) Blade case cover (tapping screw, bind, CT, 5x20 ...5 pieces)
- 2) Tension spring 5 [Note] Hook should not be deformed
- 3) Bearing retainer 42-68 (flat countersunk-head screw M5x16 ... 4 pieces)
- 4) Safety cover (excluding wire cable)
- 5) Riving knife holder (square flat-head bolt M8x98, See figure 2.)



For removal of the square flat-head bolt, remove each part in the order as shown in Figure 2 below.



- 1) Ring spring 12
- 2) Lever 54
- 3) Hex. nut M8
- 4) Pipe 9
- 5) Flat washer 8
- 6) Square flat-head bolt M8x98

Figure 2

(1) Removal of base

Pull out headed pin 10 and remove the base (figure 3).

(2) Disassembly of gears

Unscrew four pan-head screws M5x16 and remove bearing box that includes spindle ,gears, etc. (figure 3). Pull out the spindle from the bearing box by using an arbor.

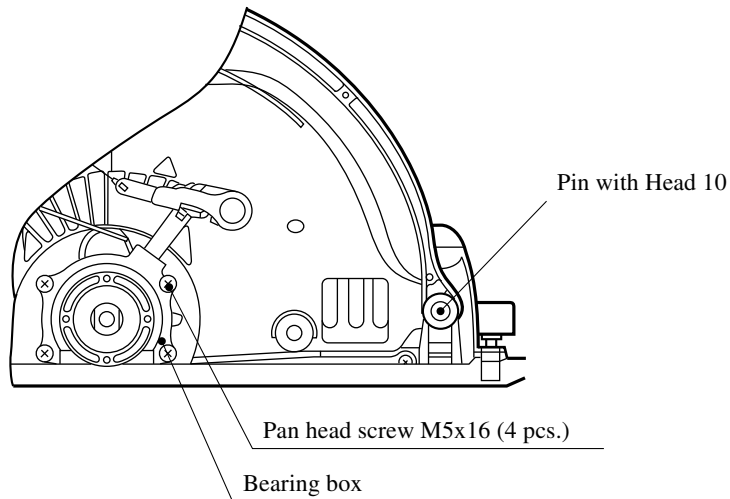
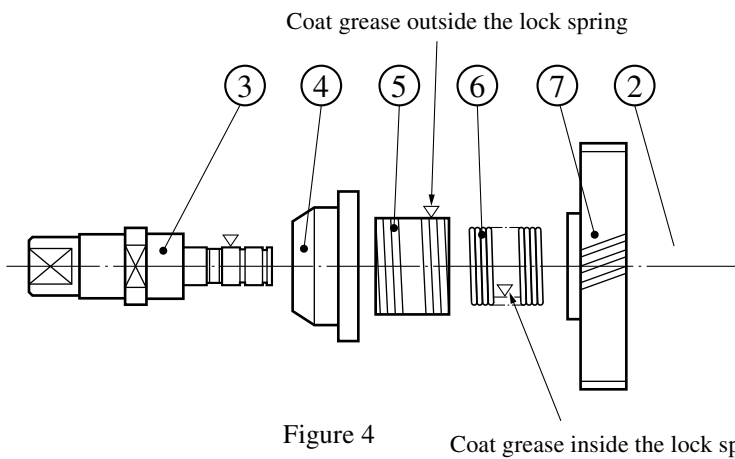


Figure 3

For disassembly of gears, remove each part in the order as shown in Figure 4 below.



- 1) Circle clip (shaft) S-12
- 2) Ball bearing 6001
- 3) Spindle
- 4) Lock sleeve
- 5) Lock spring 27
- 6) Lock spring 20
- 7) Helical gear 57

Figure 4

Coat grease inside the lock spring

[Note] When assembling the gears, coat grease on spindle, lock spring, etc. (grease-up points are indicated as ▽ in the figure 4.)

(3) Mounting of tension spring 5

Mount tension spring 5 as shown in the figure 5 below.

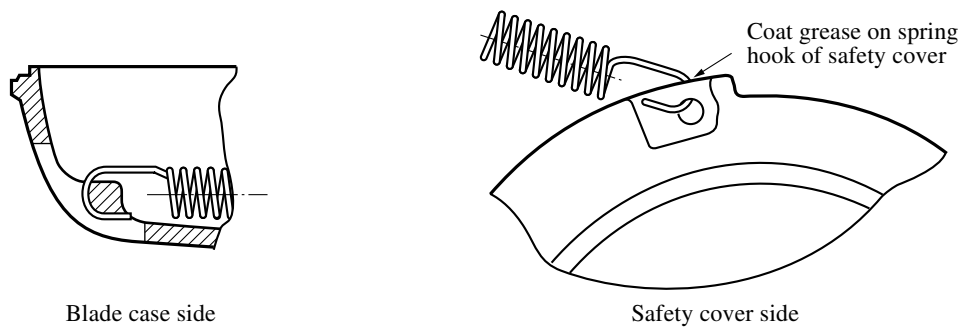


Figure 5

(4) Disassembly and assembly of switch parts

For disassembly, remove ring spring 12 and lever 54 (see figure 2), then remove tapping screw flange PT/5x25 (4 pieces) and pan-head screw M5x40 (3 pieces) to remove handle L. For assembly, put lock-off button into handle R and mount switch lever. (See figure 6.)

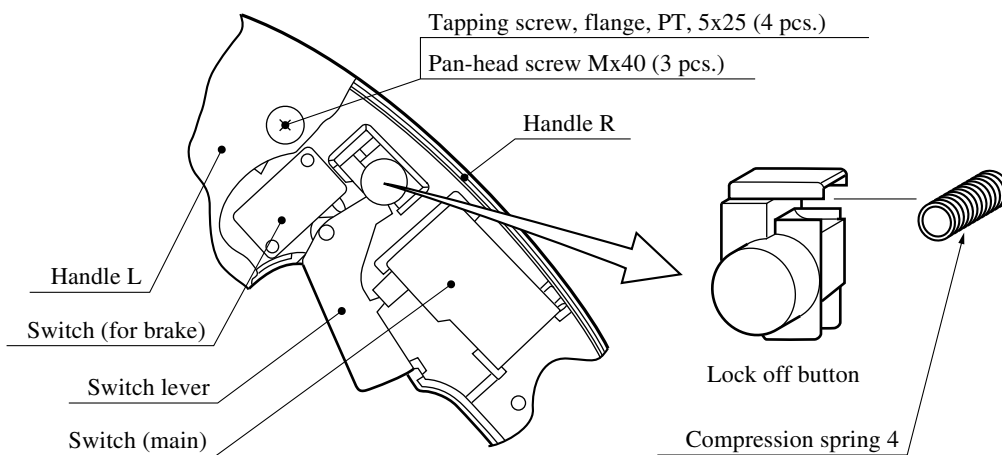


Figure 6

(5) Route wire rope as shown in the figure 7 below.

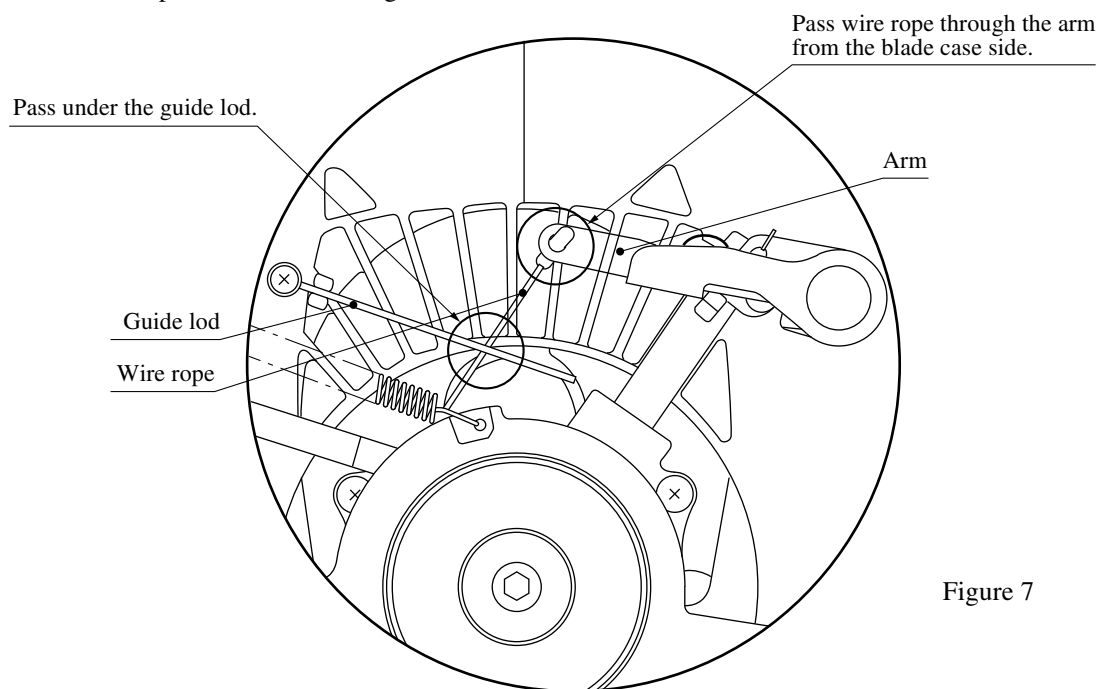
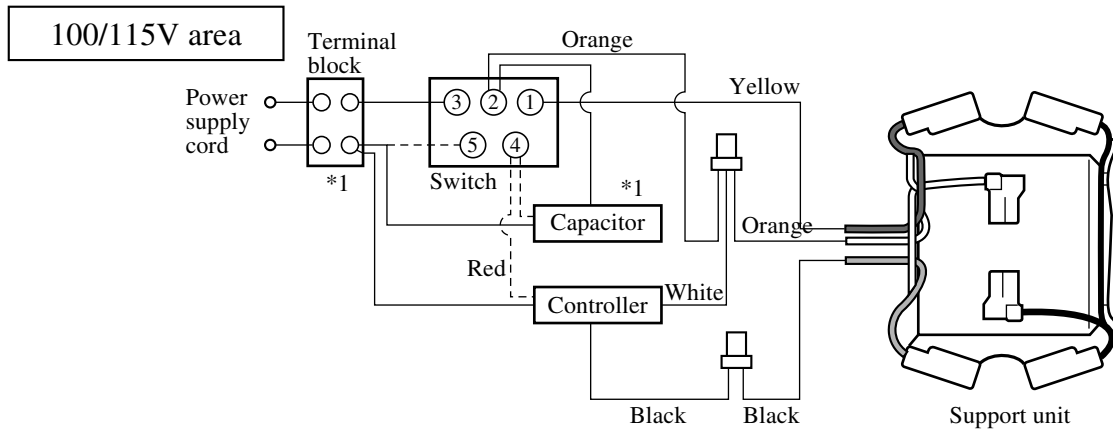
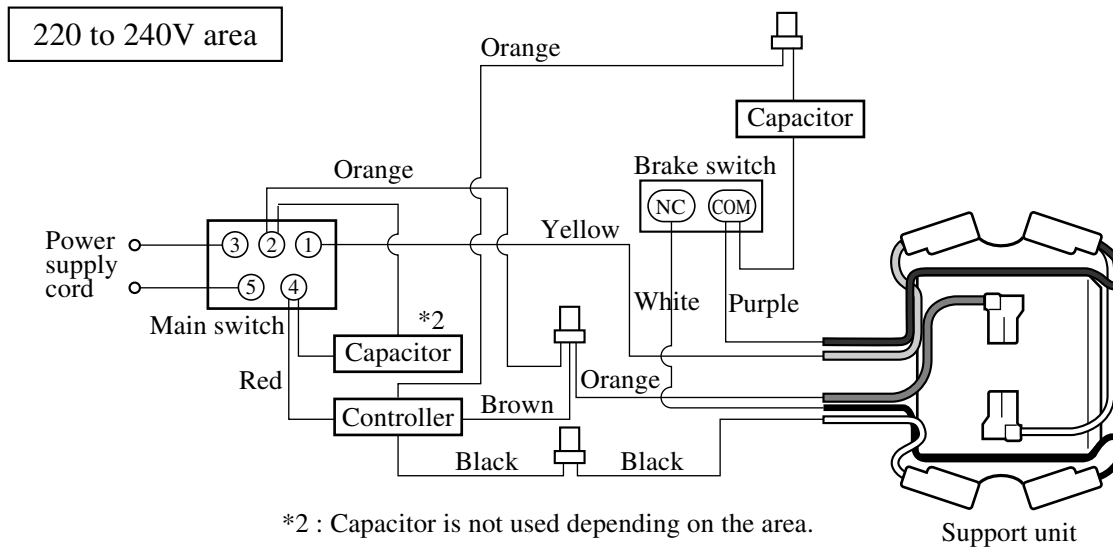


Figure 7

▶ Wiring Diagram



*1 : Terminal block and capacitor are not used depending on the area.
When the terminal block is not used, wiring should be the dotted lines.



*2 : Capacitor is not used depending on the area.