

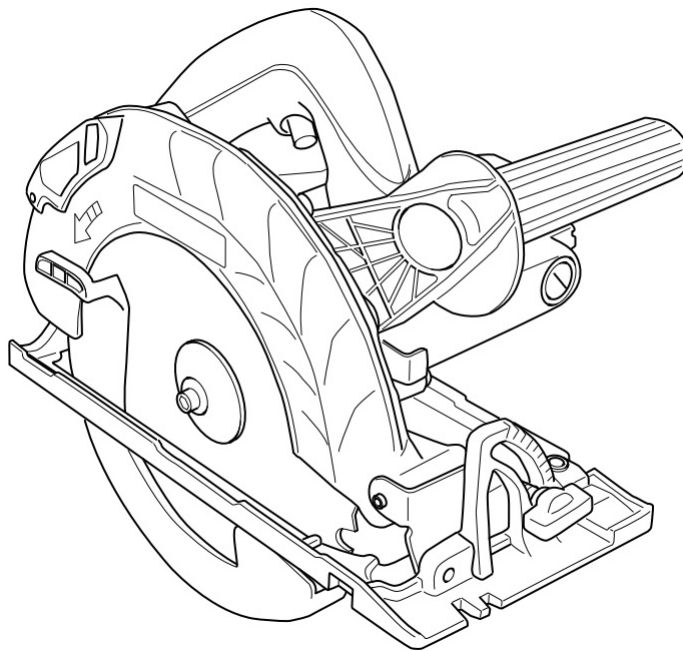


## HiKOKI C 6SS Brushless Circular Saw Instruction Manual

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# HiKOKI

Instruction Manual



Handling instructions



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## GENERAL POWER TOOL SAFETY WARNINGS



### WARNING

**Read all safety warnings and all instructions.**

Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

**Save all warnings and instructions for future reference.**

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### 1. Work area safety

- a) Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks that may ignite dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

#### 2. Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. The use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. The use of an RCD reduces the risk of electric shock.

#### 3. Personal safety

- a) Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection.

Protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off position before connecting to a power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on.

A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. The use of dust collection can reduce dust-related hazards.

#### 4. Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate at which it was designed.

b) Do not use the power tool if the switch does not turn it on and off .

Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/ or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

#### 5. Service


a) Have your power tool serviced by a quality repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

### PRECAUTION

Keep children and infirm persons away. When not in use, tools should be stored out of reach of children and infirm persons.

### CIRCULAR SAW SAFETY WARNINGS

#### Cutting procedures

- a)  **DANGER:** Keep hands away from the cutting area and the blade. Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they can not be cut by the blade.
- b) Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

- c) Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
- d) Never hold a piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- e) Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a “live” wire will also make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- f) When ripping always use a rip fence or straight edge guide. This improves the accuracy of the cut and reduces the chance of blade binding.
- g) Always use blades with the correct size and shape (diamond versus round) of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing a loss of control.
- h) Never use damaged or incorrect blade washers or bolts. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

### **Kickback causes and related warnings**

- kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or bound tightly by the kerf closing down, the blade stalls, and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator. Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
- a) Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backward, but kickback forces can be controlled by the operator, if proper precautions are taken.
- b) When the blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop.  
Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- c) When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged in the material.  
If the saw blade is binding, it may walk up or kick back from the workpiece as the saw is restarted.
- d) Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut, and near the edge of the panel.
- e) Do not use dull or damaged blades.  
Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding, and kickback.
- f) Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- g) Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

### **Lower guard function**

- a) Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, at all angles and depths of the cut.
- b) Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. The lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- c) Lower guard may be retracted manually only for special cuts such as “plunge cuts” and “compound cuts”.  
Raise the lower guard by retracting the handle and as soon as the blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- d) Always observe that the lower guard is covering the blade before placing the saw down on a bench or floor.  
An unprotected, coasting blade will cause the saw to walk backward, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after the switch is released.















## ADDITIONAL SAFETY WARNINGS

1. Use only blade diameter specified on the machine.
2. Do not use any abrasive wheel.
3. Do not use saw blades that are deformed or cracked.
4. Do not use saw blades made of high-speed steel.
5. Do not use saw blades that do not comply with the characteristics specified in these instructions.
6. Do not stop the saw blades by lateral pressure on the disc.
7. Always keep the saw blades sharp.
8. Ensure that the lower guard moves smoothly and freely.
9. Never use the circular saw with its lower guard fixed in the open position.
10. Ensure that the retraction mechanism of the guard system operates correctly.
11. Never operate the circular saw with the saw blade turned upward or to the side.
12. Ensure that the material is free of foreign matters such as nails.
13. For model C6SS, the saw blades range should be from 165 mm to 180 mm. For model C7SS, the saw blades range should be from 190 mm to 185 mm.
14. Disconnect the plug from the receptacle before carrying out any adjustment, servicing or maintenance.
15. Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
16. Ensure that the power switch is in the OFF position. If the plug is connected to a receptacle while the power switch is in the ON position, the power tool will start operating immediately, which could cause a serious accident.
17. When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.
18. Since the saw blade will extend beyond the lower surface of the lumber, place the lumber on a workbench when cutting. If a square block is utilized as a workbench, select level ground to ensure it is properly stabilized. An unstable workbench will result in hazardous operations. (Fig.1) To avoid possible accidents, always ensure that the  
a portion of lumber remaining after cutting is securely anchored or held in position.
19. Should lever (A) remain loosened, it will create a very hazardous situation. Always thoroughly clamp it. (Fig.2)
20. It is very hazardous to allow the wing bolts to remain loosened. Always thoroughly clamp it. (Fig.3)
21. Prior to the cutting operation, make sure the material you are going to cut. If the material to be cut is expected to generate harmful/toxic dust, make sure the dust bag  
or appropriate dust extraction system is connected with the dust outlet tightly. Wear the dust mask additionally, if available.
  - Before starting to saw, confirm that the saw blade has attained full-speed revolution.
  - Should the saw blade stop or make an abnormal noise while operating, promptly turn OFF the switch.
  - Always take care in preventing the power cord from coming near to the revolving saw blade.
  - Using the circular saw with the saw blade facing upwards or sideways is very hazardous. Such uncommon applications should be avoided.
  - When cutting materials, always wear protective glasses.
  - When finished with a job, pull out the plug from the receptacle.
22. After having attached the saw blade, reconfirm that the lock lever is firmly secured in the prescribed position.

## SYMBOLS

### WARNING

The following show symbols used for the machine. Be sure that you understand their meaning before use.

	C6SS / C7SS: Circular Saw
	Read all safety warnings and all instructions.
	Always wear eye protection.
	Always wear hearing protection.
	Only EU countries Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/ EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.
	Rated voltage
	Cutting depth
	Power Input
	No-Load speed
	Weight (without cord)
	Switching ON
	Switching OFF
	Disconnect the mains plug from the electrical outlet
	Class II tool

### STANDARD ACCESSORIES

In addition to the main unit (1), the package contains the accessories listed below.

- Saw Blade (mounted on the tool) .....1
- Dia. 165 mm ..... C6SS
- Dia. 190 mm ..... C7SS
- Hex. Bar wrench .....1

Standard accessories are subject to change without notice.

## APPLICATIONS

Cutting various types of wood.

## SPECIFICATIONS

The specifications of this machine are listed in the Table on page 110.

### NOTE

Due to HIKOKI's continuing program of research and development, the specifications herein are subject to

## MOUNTING AND OPERATION

Action	Figure	Page
Adjusting the cutting depth	2	111
Adjusting the angle of inclination	3	111
Regulating the guide (Optional accessory)	4	111
Cutting line	5	111

Switch operation	6	111
Dismounting the saw blade	7	112
Mounting the Saw Blade*	8	112
How to store the hex. bar wrench	9	112
Mounting the dust collector set (D) (Optional accessory)	10	112
Adjusting the base and saw blade to maintain perpendicularity	11	112
Selecting accessories	—	113

\* Washer (A) is supplied for 2 types of saw blades with the hole diameters of 20 mm and 30 mm. (When buying the Circular Saw, one type of washer (A) is supplied.)

## MAINTENANCE AND INSPECTION

### 1. Inspecting the saw blade

Since the use of a dull saw blade will degrade efficiency and cause possible motor malfunction, sharpen or replace the saw blade as soon as abrasion is noted.

### 2. Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazards.

### 3. Maintenance of the motor

The motor unit winding is the very “heart” of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

#### **4. Inspecting the carbon brushes**

For your continued safety and electrical shock protection, carbon brush inspection and replacement on this tool should ONLY be performed by a HiKOKI Authorized Service Center.

#### **5. Replacing supply cord**

If the replacement of the supply cord is necessary, this has to be done by the manufacturer of this agent in order to avoid a safety hazard.

#### **6. Maintenance of the lower guard**

For safe and proper working, always keep the machine and ventilation slots clean. The lower guard must always be able to move freely and retract automatically. Therefore, always keep the area around the lower guard clean. Remove dust and chips by blowing out with compressed air or with a brush.

#### **CAUTION**

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

#### **GUARANTEE**

We guarantee HiKOKI Power Tools in accordance with statutory/country specific regulation. This guarantee does not cover defects or damage due to misuse, abuse, or normal wear and tear. In case of a complaint, please send the Power Tool, undismantled, with the GUARANTEE CERTIFICATE found at the end of this Handling instruction, to a HiKOKI Authorized Service Center.

#### **IMPORTANT**

Correct connection of the plug The wires of the main lead are colored in accordance with the following code:

Blue: — Neutral

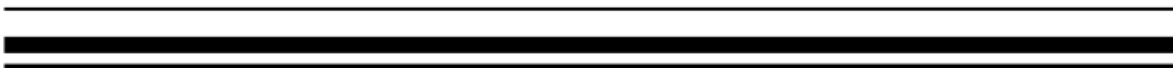
Brown: — Live

As the colors of the wires in the main lead of this tool may not correspond with the colored markings identifying the terminals in your plug proceed as follows: The wire colored blue must be connected to the terminal marked with the letter N or colored black. The wire colored brown must be connected to the terminal marked with the letter L or colored red. Neither core must be connected to the earth terminal.

#### **NOTE:**

This requirement is provided according to BRITISH STANDARD 2769: 1984.

Therefore, the letter code and color code may not be applicable to other markets except The United Kingdom.



#### **Information concerning airborne noise and vibration**

The measured values were determined according to EN60745 and declared in accordance with ISO 4871.

##### **C6SS**

Measured A-weighted sound power level: 106 dB (A) Measured A-weighted sound pressure level: 95 dB (A)

Uncertainty K: 3 dB (A).

##### **C7SS**

Measured A-weighted sound power level: 106 dB (A) Measured A-weighted sound pressure level: 95 dB (A)

Uncertainty K: 3 dB (A).

Wear hearing protection.

Vibration total values (triax vector sum) are determined according to EN60745.

Cutting chipboard:

**C6SS**

Vibration emission value  $a_h = 2.4 \text{ m/s}^2$

Uncertainty  $K = 1.5 \text{ m/s}^2$

**C7SS**

Vibration emission value  $a_h = 5.9 \text{ m/s}^2$

Uncertainty  $K = 1.5 \text{ m/s}^2$



The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. It may also be used in a preliminary assessment of exposure.

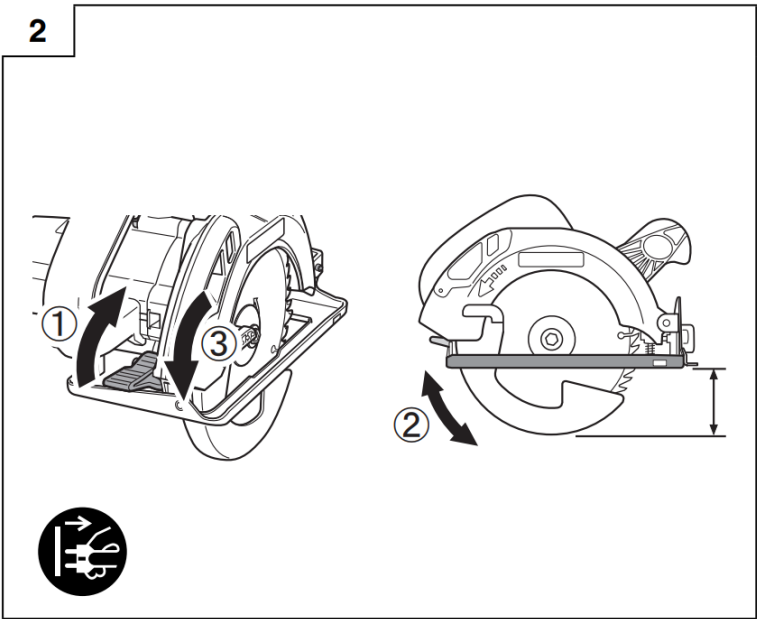
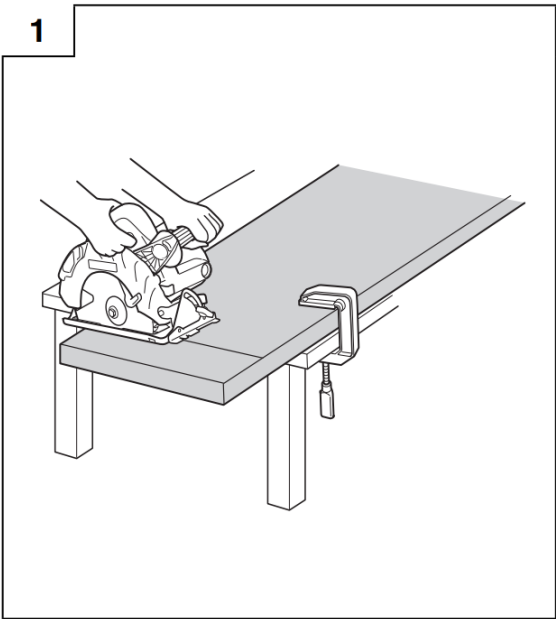
**WARNING**

- The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used.
- Identify safety measures to protect the operator that is based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

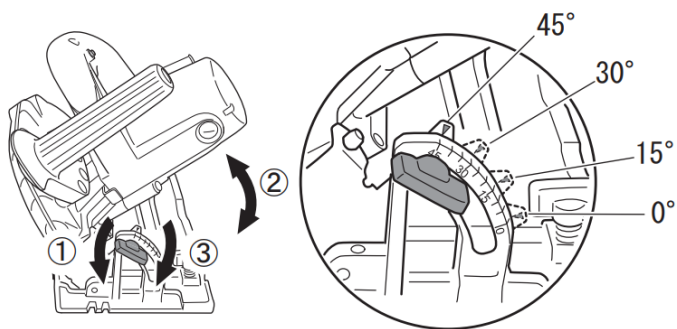
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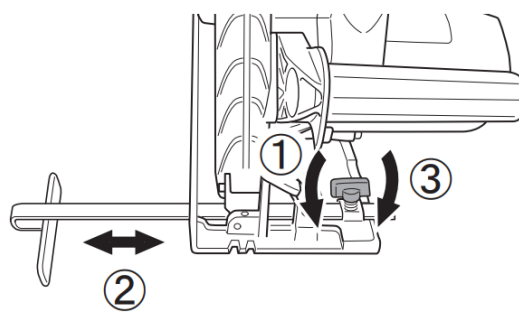
		C6SS	C7SS
<b>V</b>		(110, 230) V –	
	90°	57 mm	68 mm
	45°	38 mm	46 mm
<b>P</b>		110V:1010 W/230 V: 1050 W	
<b>no</b>		5500 min <sup>-1</sup>	
		3.2 kg	3.4 kg



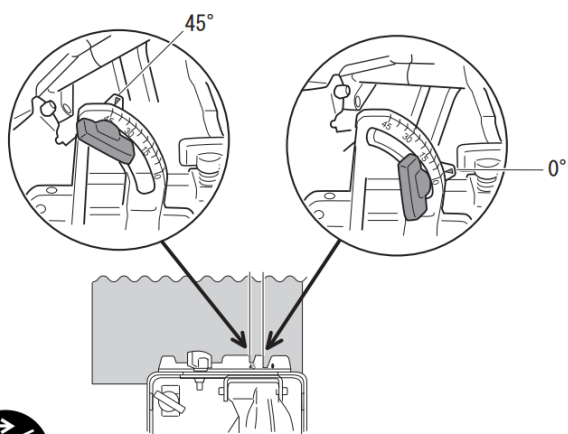
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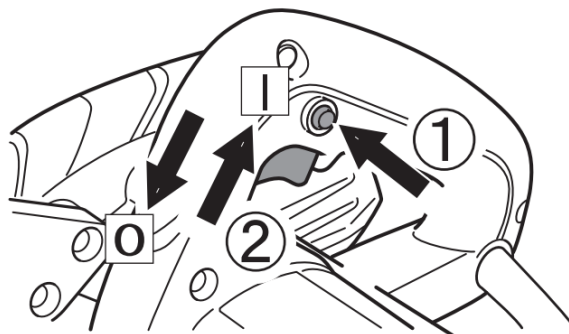
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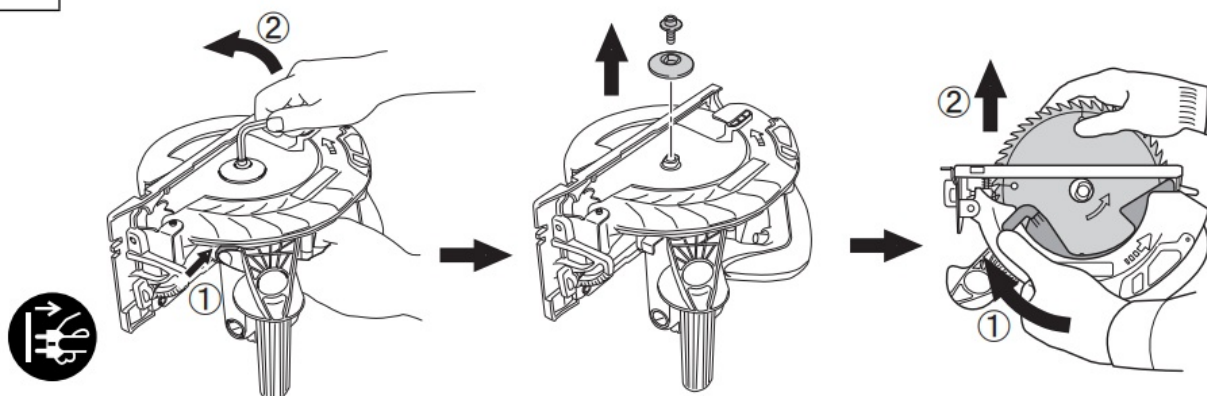
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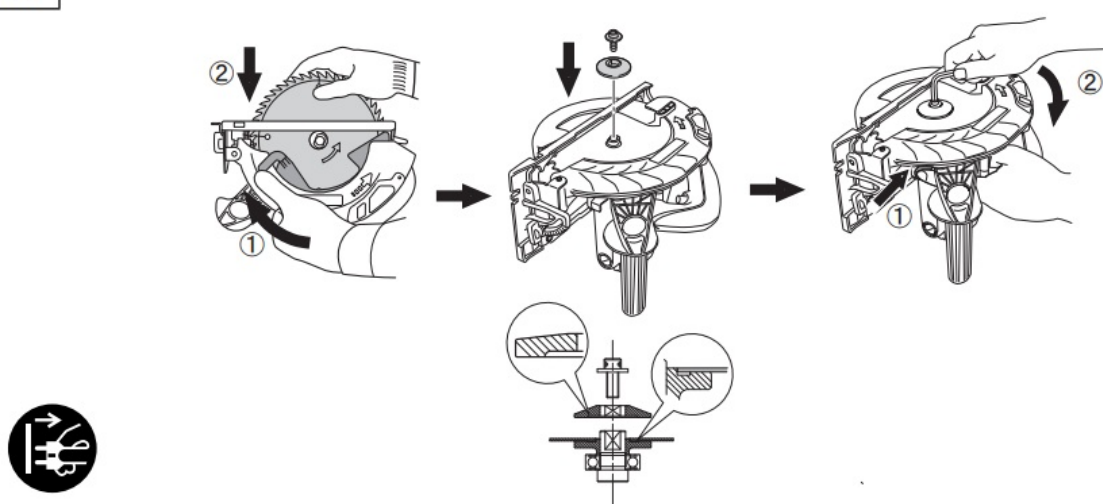
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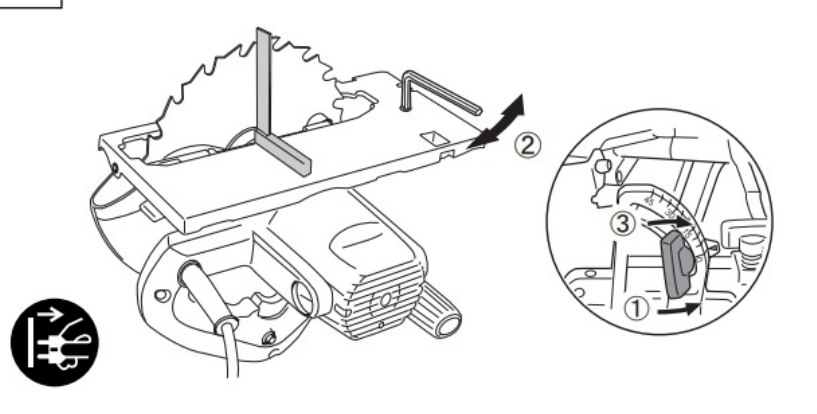
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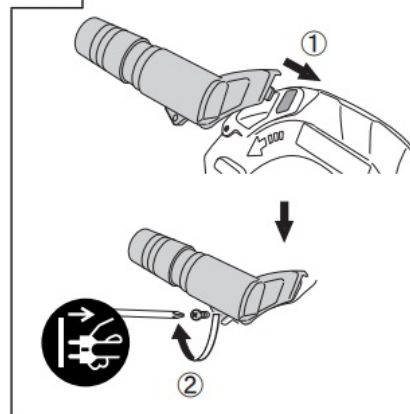
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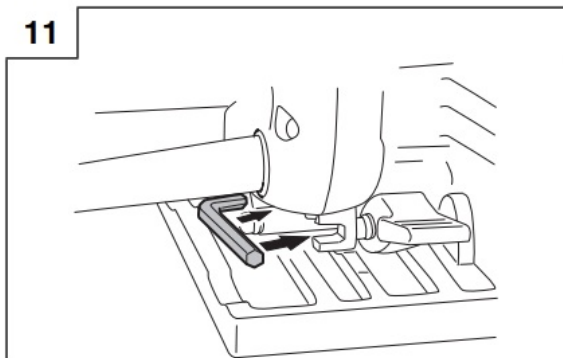
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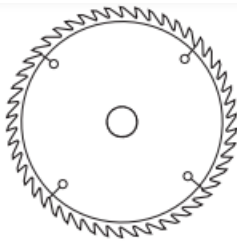


10



11





**C6SS**

D20: 330889

D30: 324678

**C7SS**

D20 : 330888

D30 : 324668



944459



302756

## **GUARANTEE CERTIFICATE**

1. Model No.
2. Serial No.
3. Date of Purchase
4. Customer Name and Address
5. Dealer Name and Address

(Please stamp dealer name and address)

### **Hikoki Power Tools (U.K.) Ltd.**

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United Kingdom

Tel: +44 1908 660663

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URL: <http://www.hikoki-powertools.uk>

## **EC DECLARATION OF CONFORMITY**

We declare under our sole responsibility that Circular Saw, identified by type and specific identification code \*1), is in conformity with all relevant requirements of the directives \*2) and standards \*3). Technical file at \*4) – See below.

The European Standard Manager at the representative office in Europe is authorized to compile the technical file. The declaration is applicable to the product affixed CE marking.

\*1) C7SS C349555S

C6SS C349554S

\*2) 2006/42/EC, 2014/30/EU, 2011/65/EU

\*3) EN60745-1:2009+A11:2010

EN60745-2-5:2010

EN55014-1:2006+A1:2009+A2:2011

EN55014-2:1997+A1:2001+A2:2008

EN61000-3-2:2014

EN61000-3-3:2013

\*4) Representative office in Europe

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29. 6. 2018

Naoto Yamashiro

European Standard Manager



29. 6. 2018


A. Nakagawa  
Corporate Officer

806

Code No. C99703171 F

Printed in China

## Documents / Resources

	<a href="#">HiKOKI C 6SS Brushless Circular Saw</a> [pdf] Instruction Manual C 6SS, C 7SS, Brushless Circular Saw
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## References

- [Hikoki Powertools](#)