



## HiKOKI C7SS Cordless Circular Saw Instruction Manual

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# **HiKOKI**

C7SS Cordless Circular Saw  
Instruction Manual



Keep for future reference

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## GENERAL POWER TOOL SAFETY WARNINGS



**Read all safety warnings, instructions, illustrations, and specifications provided with this power tool.**

Failure to follow all instructions listed below 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 the 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 a dust mask, 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 and clothing 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.

h) Do not let familiarity gained from the frequent use of tools allow you to become complacent and ignore tool safety principles.

A careless action can cause severe injury within a fraction of a second.

### **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 for which it was designed.

b) Do not use the power tool if the switch does not turn 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 remove the battery pack, if detachable, 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 and accessories. 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.

h) Keep handles and grasping surfaces dry, clean, and free from oil and grease.

Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## **5. Service**

a) Have your power tool serviced by a qualified repair person using only identical replacement parts.

This will ensure that the safety of the power tool is maintained.

## **CAUTION**

Keep children and infirm persons away.

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

## **SAFETY INSTRUCTIONS FOR ALL SAWS**

### **DANGER**

a) 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 cannot 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 the workpiece in your hands or across your leg while cutting. 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 power tool by insulated gripping surfaces 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 shock the operator.

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 off-center, 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.

## **FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS**

Causes and operator prevention of kickback:

- kickback is a sudden reaction to a pinched, jammed, 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 jammed 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 on 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 so that the saw teeth are not engaged in the material.

If the saw blade binds, 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 the cut.

If blade adjustment shifts while cutting, it may cause binding and kickback.

g) Use extra caution when making a "plunge cut" into existing walls or other blind areas.

The protruding blade may cut objects that can cause kickback.

## **SAFETY INSTRUCTIONS FOR SAWS WITH INNER PENDULUM GUARD**

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 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 build-up of debris.

c) The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting 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.

## **PRECAUTIONS ON USING CIRCULAR SAW**

1. Do not use saw blades that are deformed or cracked.
2. Do not use saw blades made of high-speed steel.
3. Do not use saw blades that do not comply with the characteristics specified in these instructions.
4. Do not stop the saw blades by lateral pressure on the disc.
5. Always keep the saw blades sharp.
6. Ensure that the lower guard moves smoothly and freely.
7. Never use the circular saw with its lower guard fixed in the open position.
8. Ensure that the retraction mechanism of the guard system operates correctly.
9. Never operate the circular saw with the saw blade turned upward or to the side.
10. Ensure that the material is free of foreign matter such as nails.
11. The saw blade range should be from 185 mm to 190 mm.

12. Do not use any abrasive wheel.
13. Use only blade diameter specified on the machine.
14. Disconnect the plug from the receptacle before carrying out any adjustment, servicing, or maintenance.
15. Check that there are no nicks or scratches on the cord.
16. Check the exterior and ensure that there is no damage.
17. Use a saw blade with a displayed rotational speed equal to or higher than the rotational speed of the tool.
18. Use a saw blade that suits each different cutting material.
19. Always hold the handle of the tool firmly.

## SYMBOL

### WARNING

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



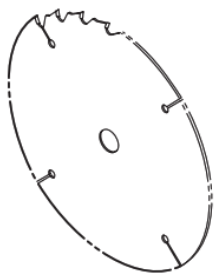

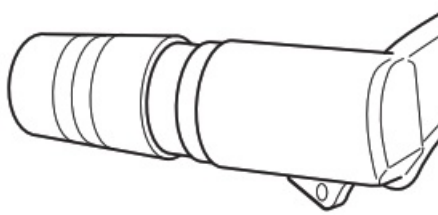
To reduce the risk of injury, users must read the instruction manual.

## SPECIFICATIONS


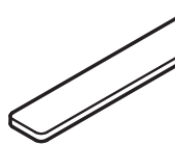
Voltage		220 V~
Cutting Depth	90°	68 mm
	45°	46 mm
Input		1050 W
No-Load Speed		5800 /min
Weight (without cord		3.4 kg

## STANDARD ACCESSORIES

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

Saw Blade (Dia. 190 mm) (mounted on the tool)	
Hex. Bar wrench	
Dust collector	

#### OPTIONAL ACCESSORIES (sold separately)

(1) Washer (A) ..... for 20 mm (Inner dia. of the saw blade) ..... for 30 mm (Inner dia. of the saw blade)	
(2) Guide (with wing-bolt)	

#### APPLICATION

Cutting various types of wood.

#### PRIOR TO OPERATION

##### 1. Power source

Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.

##### 2. Power switch

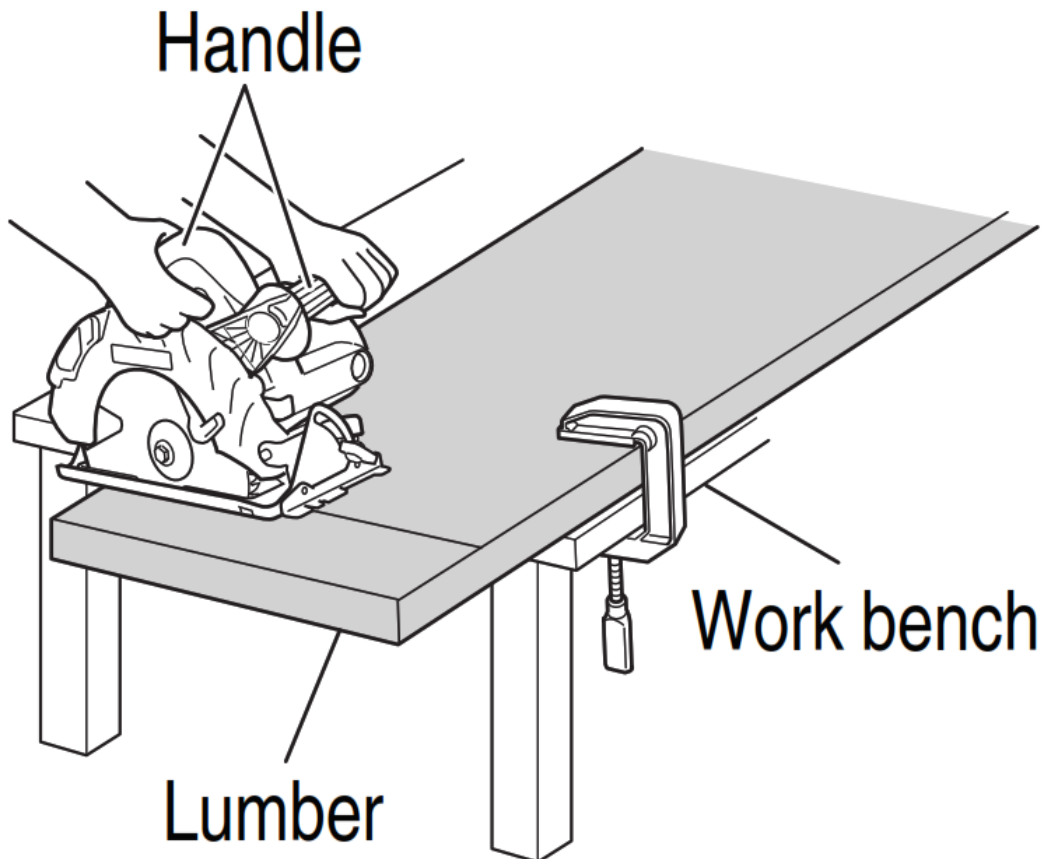
Ensure that the power switch is in the OFF position. If the plug is connected to a receptacle while the power switch is in the ON position, the power tool will start operating immediately, inviting a serious accident.

3. Extension cord

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.

4. Prepare a wooden workbench. **(Fig. 1)**

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**

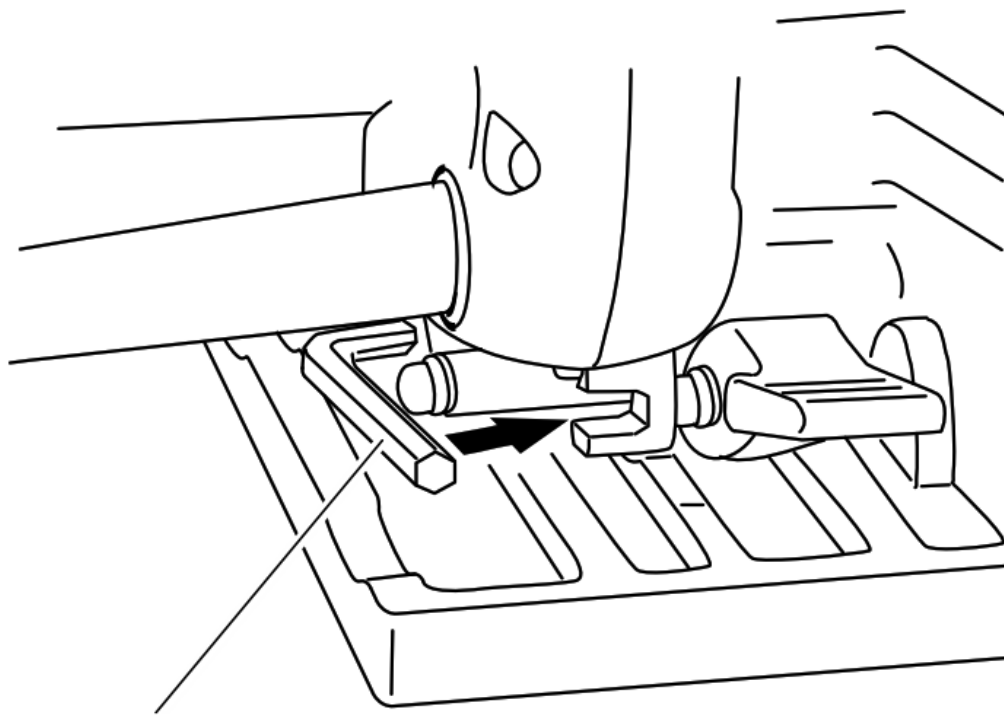
**CAUTION**

**To avoid possible accidents, always ensure that the portion of lumber remaining after cutting is securely anchored or held in position.**

5. How to store the hex. bar wrench **(Fig. 2)**

The hex. bar wrench used for attaching and detaching the saw blade can be stored in the handle.





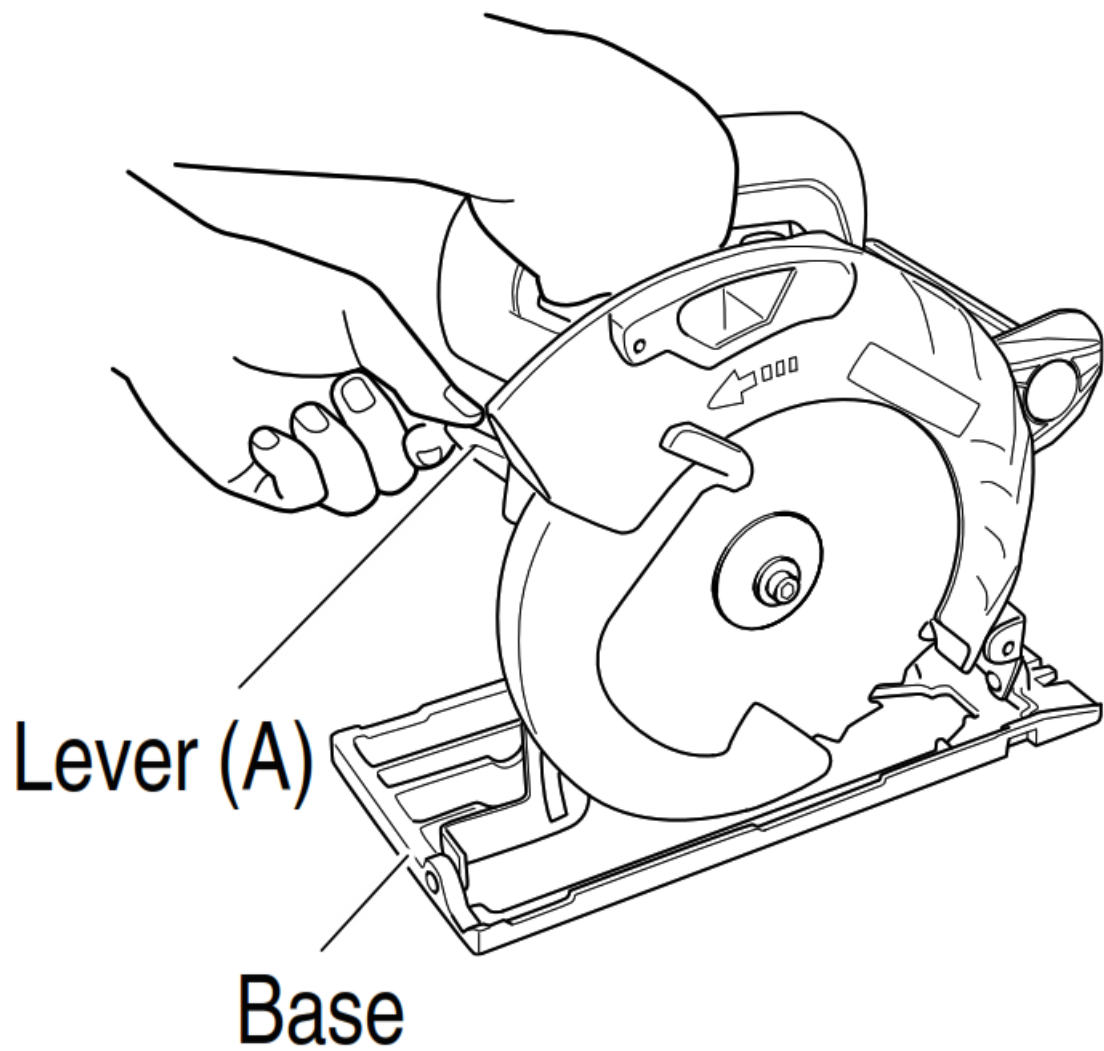
Hex. bar wrench

**Fig. 2**

#### **ADJUSTING THE POWER TOOL PRIOR TO USE**

##### **1. Adjusting the cutting depth**

The cutting depth can be adjusted by moving the base after loosening its lever (A) (**Fig. 3**).



**Fig. 3**

**CAUTION**

Should this lever (A) remain loosened, it will create a very hazardous situation. Always thoroughly clamp it.

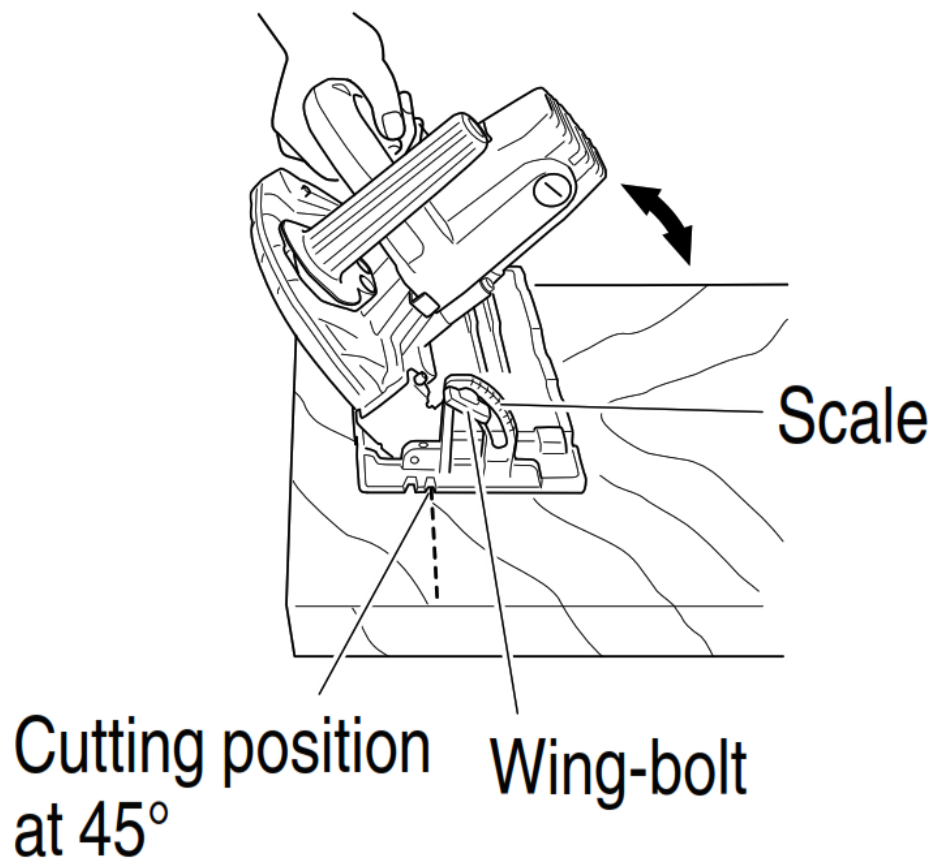
2. Adjusting the angle of inclination

By loosening the wing bolt at the scale, the saw blade can be tilted up to a maximum angle of 45° against the base (**Fig. 4**).

The angle of inclination can also be regulated by loosening the wing bolt at the scale (**Fig. 4**).

**CAUTION**

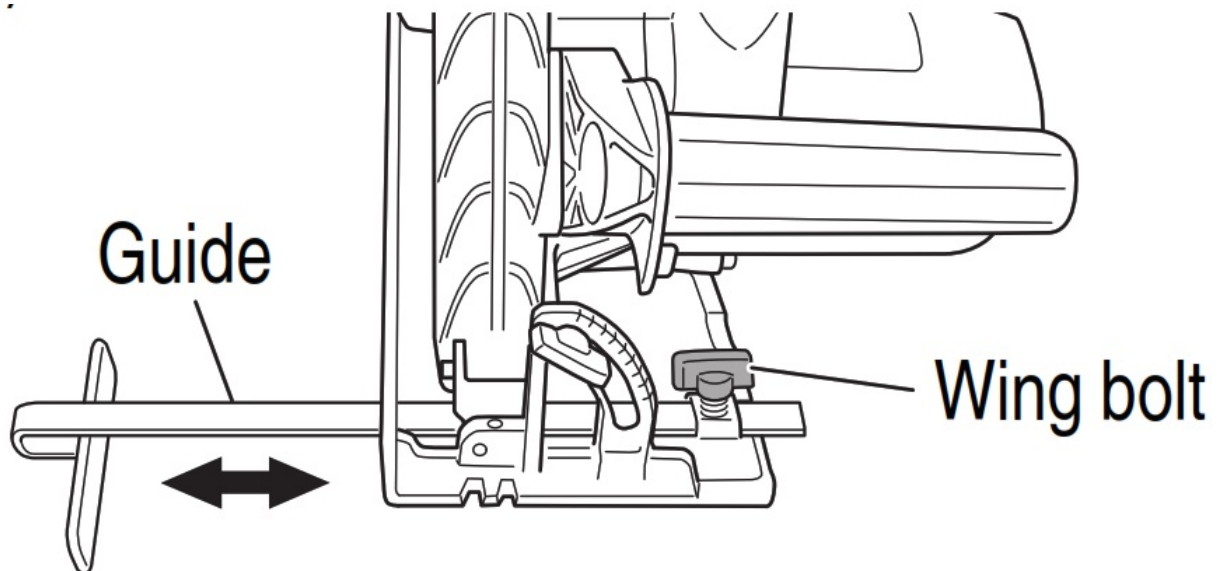
It is very hazardous to allow this wing bolt to remain loosened. Always thoroughly clamp it.



**Fig. 4**

3. Regulating the guide (Optional accessory) (**Fig. 5**)

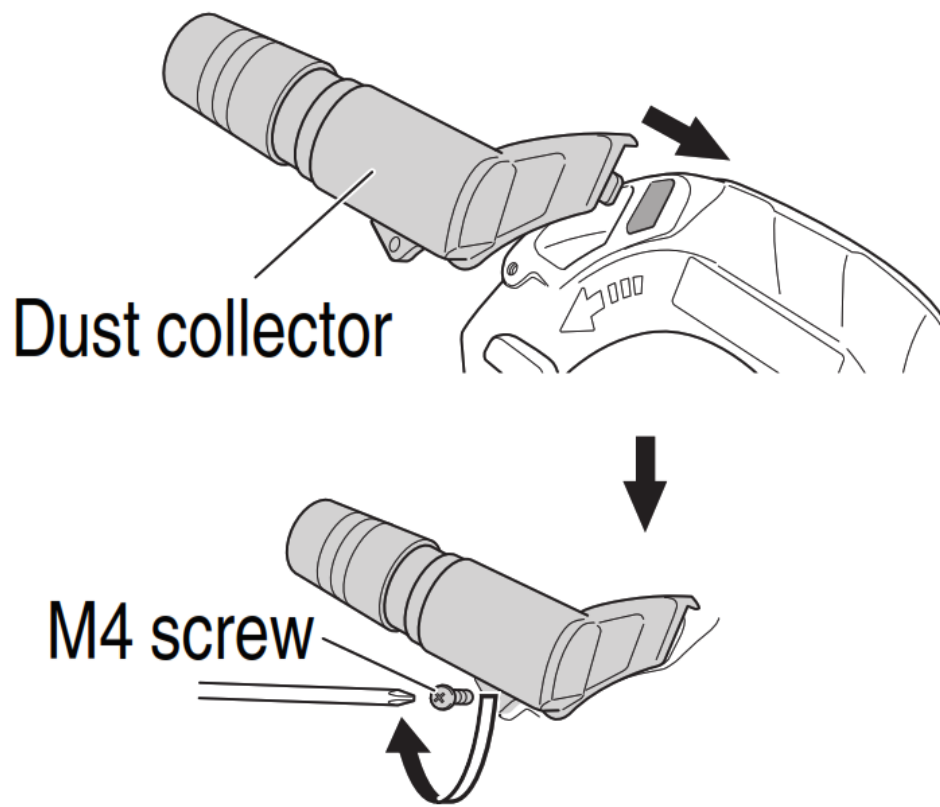
The cutting position can be regulated by moving the guide to the left or right after loosening its wing bolt. The guide can be mounted on either the left or the right sides.



**Fig. 5**

4. Using the dust collector

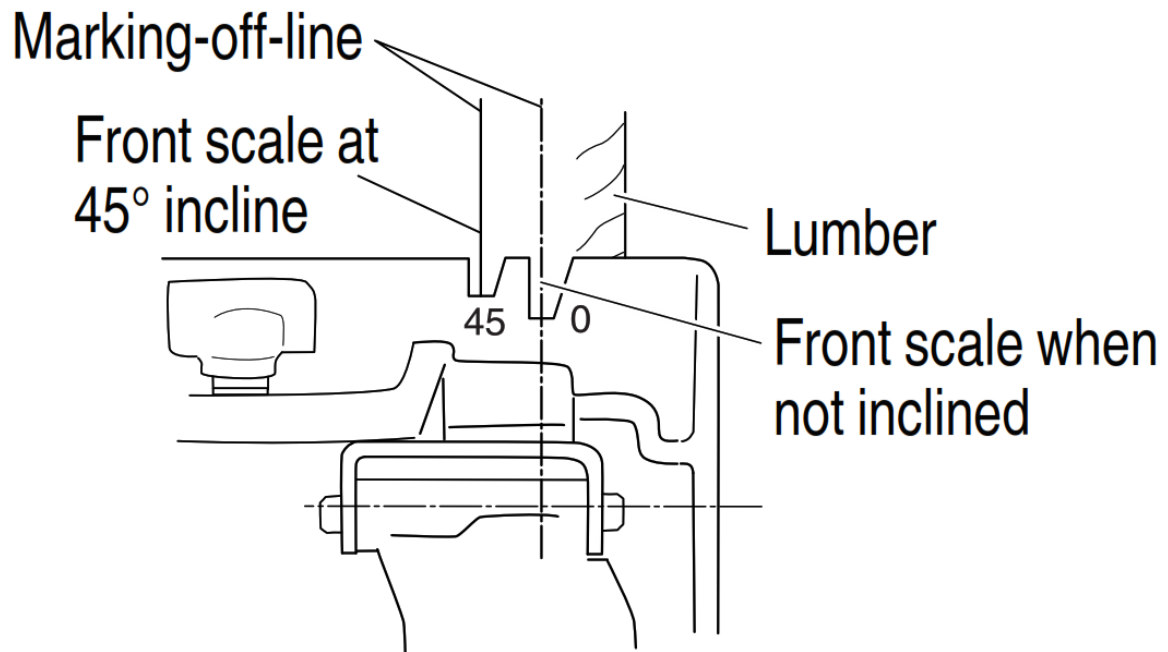
The dust collector collects sawdust when the vacuum cleaner is attached to the power tool. Attach the dust collector to the power tool with the M4 screw (**Fig. 6**).



**Fig. 6**

## CUTTING PROCEDURES

1. Place the saw body (base) on the lumber, and align the cutting with the saw blade at the front scale (Fig. 7).



**Fig. 7**

2. Turn ON the switch before the saw blade contacts the lumber. When you are going to turn ON the switch, push the button on the side of the handle first to release OFF lock means, then squeeze the switch trigger. When you turn OFF the switch, release the switch trigger

### CAUTION

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 sew, confirm that the saw blade has attained full-speed revolution.
- Should the saw blade be stopped or made an abnormal noise while operating, promptly turn OFF the switch?
- Always take care in preventing the power cord from coming near 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 material, always wear eye protection.
- When finished a job, disconnect the plug from the receptacle.

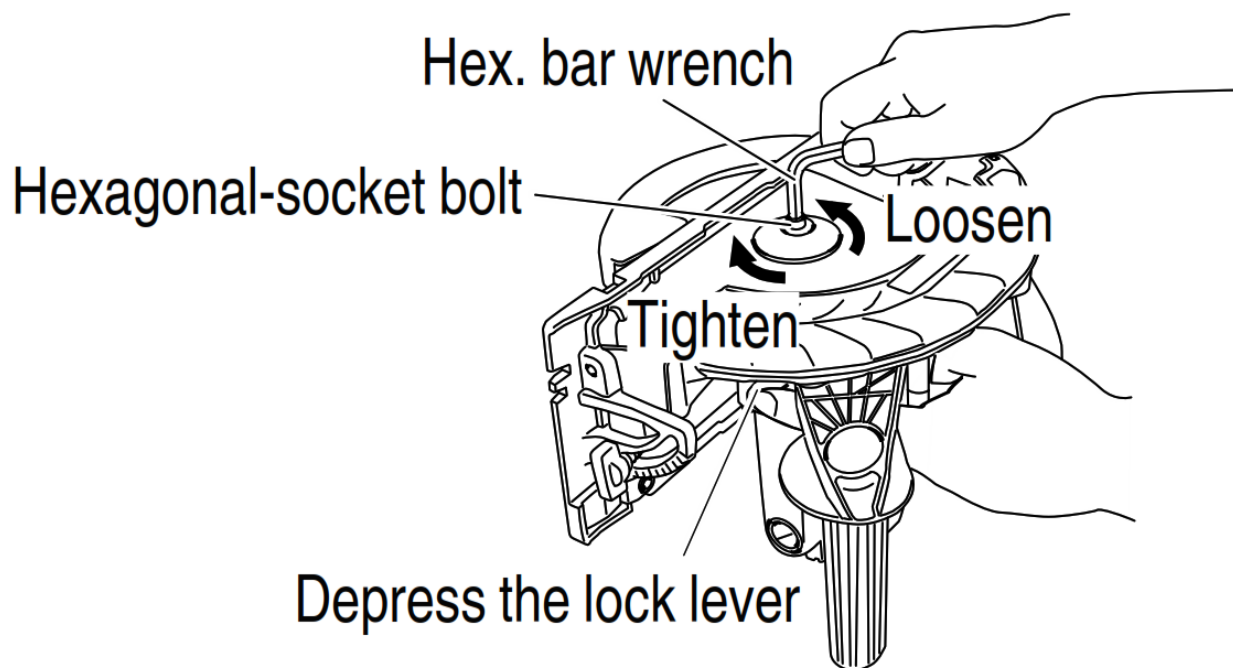
### MOUNTING AND DISMOUNTING THE SAW BLADE

#### CAUTION

To avoid serious accidents, ensure that the switch is in the OFF position and the power source is disconnected.

#### 1. Dismounting the saw blade

- (1) Set the cutting volume at maximum, and place the Circular Saw as shown in **Fig. 8**.



**Fig. 8**

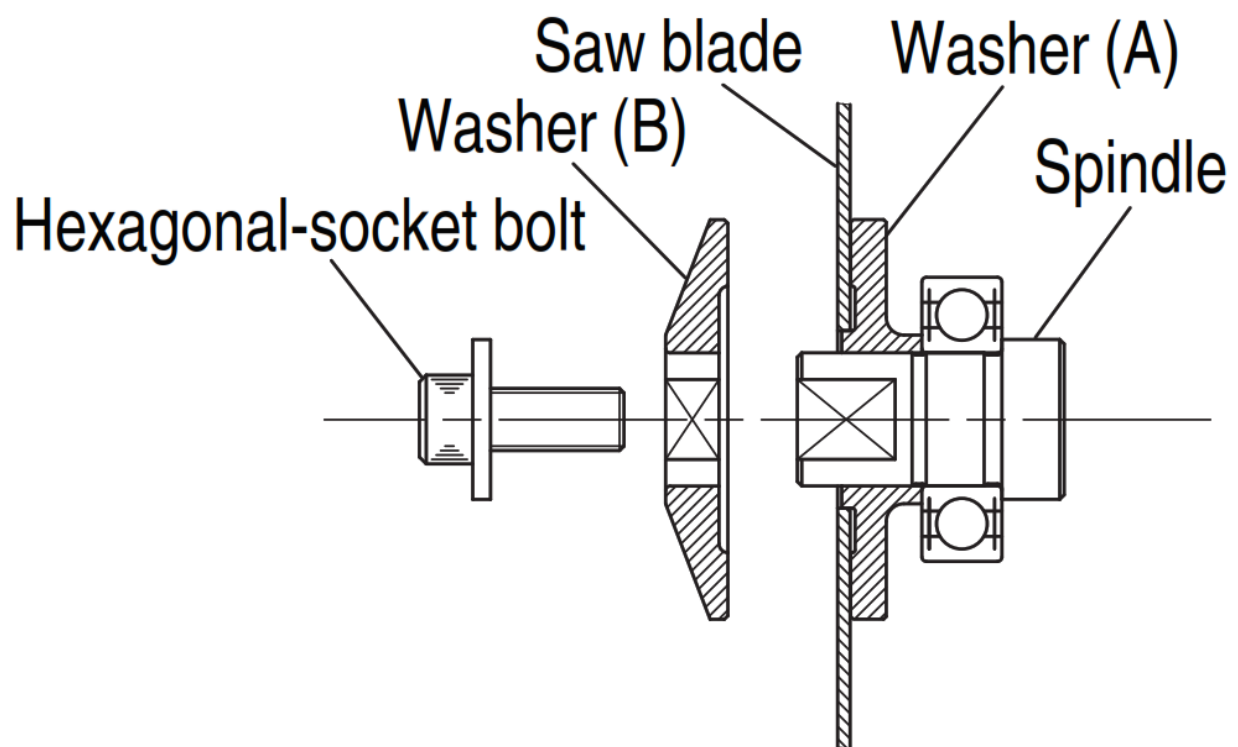
- (2) Depress the lock lever, lock the spindle, and remove the hexagonal-socket bolt with the hex. bar wrench.

- (3) While holding the lower guard lever to keep the lower guard fully retracted into the saw cover, remove the saw blade.

#### 2. Mounting the saw blade

- (1) Thoroughly remove any sawdust which has accumulated on the spindle, bolt, and washers.

- (2) As shown in **Fig. 9**, the side of Washer (A) with a projected center the same diameter as the inner diameter of the saw blade and the concave side of Washer (B) must be fitted to the saw blade sides.



**Fig. 9**

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

In case the hole diameter of your saw blade does not correspond to that of the washer (A), please contact the shop where you purchased the Circular Saw.

(3) To assure proper rotation direction of the saw blade, the arrow direction on the saw blade must coincide with the arrow direction on the saw cover.

(4) Using the fingers, tighten the hexagonal-socket bolt retaining the saw blade as much as possible. Then depress the lock lever, lock the spindle, and thoroughly tighten the hexagonal-socket bolt.

### **CAUTION**

**After having attached the saw blade, reconfirm that the lock lever is firmly secured in the prescribed position.**

### **MAINTENANCE AND INSPECTION**

#### **1. Inspecting the saw blade**

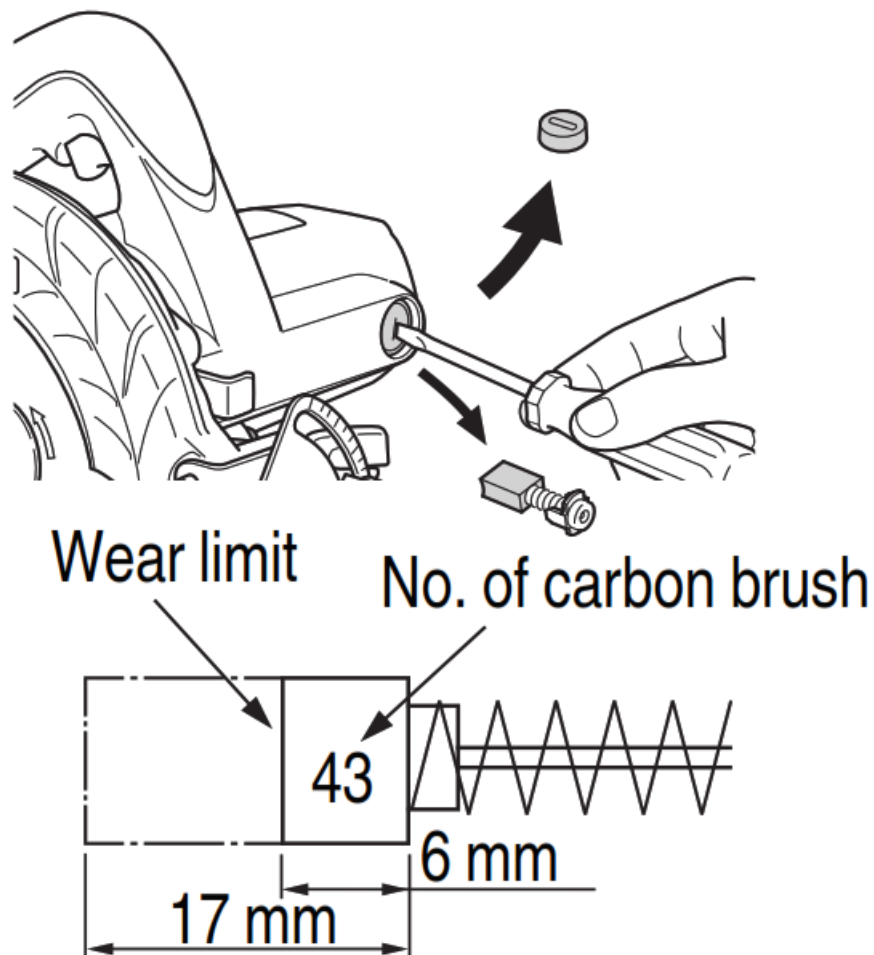
Since the use of a dull saw blade will degrade efficiency and cause possible motor malfunction, sharpen or replace the saw blade as soon as abrasion is noted.

#### **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. Inspecting the carbon brushes (Fig. 10)**

The motor employs carbon brushes which are consumable parts. Since an excessively worn carbon brush can result in motor trouble, replace the carbon brushes with new ones having the same carbon brush No. shown in the figure when it becomes worn to or near the "wear limit". In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.



**Fig. 10**

**CAUTION**

**When replacing the new carbon brushes, always use genuine HiKOKI carbon brushes with the number specified in the drawing.**

**4. Replacing carbon brushes**

Disassemble the brush caps with a slotted-head screwdriver. The carbon brushes can then be easily removed.

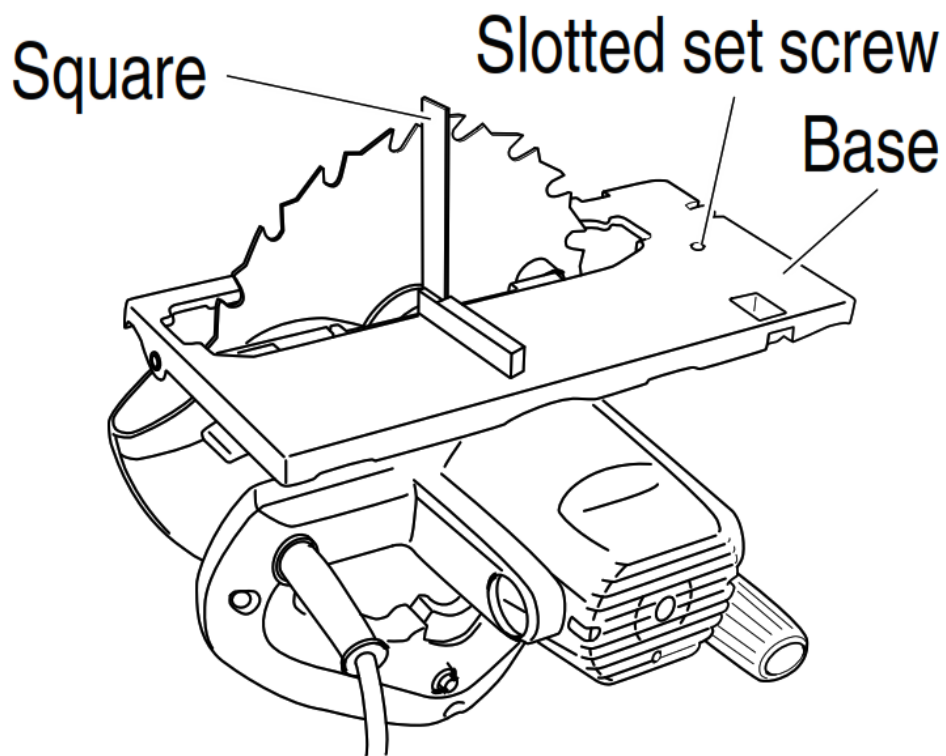
**5. Replacing supply cord**

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. Adjusting the base and saw blade to maintain perpendicularity:**

The angle between the base and the saw blade has been adjusted to 90°, however, should this perpendicularity be lost for some reason, adjust in the following manner:

(1) Turn the base face up (**Fig. 11**) and loosen the knob and wing bolt (**Fig. 4 on page 21**).



**Fig. 11**

(2) Apply a square to the base and the saw blade and turning the slotted set screw with a slotted-head screwdriver, shift the position of the base to produce the desired right angle.

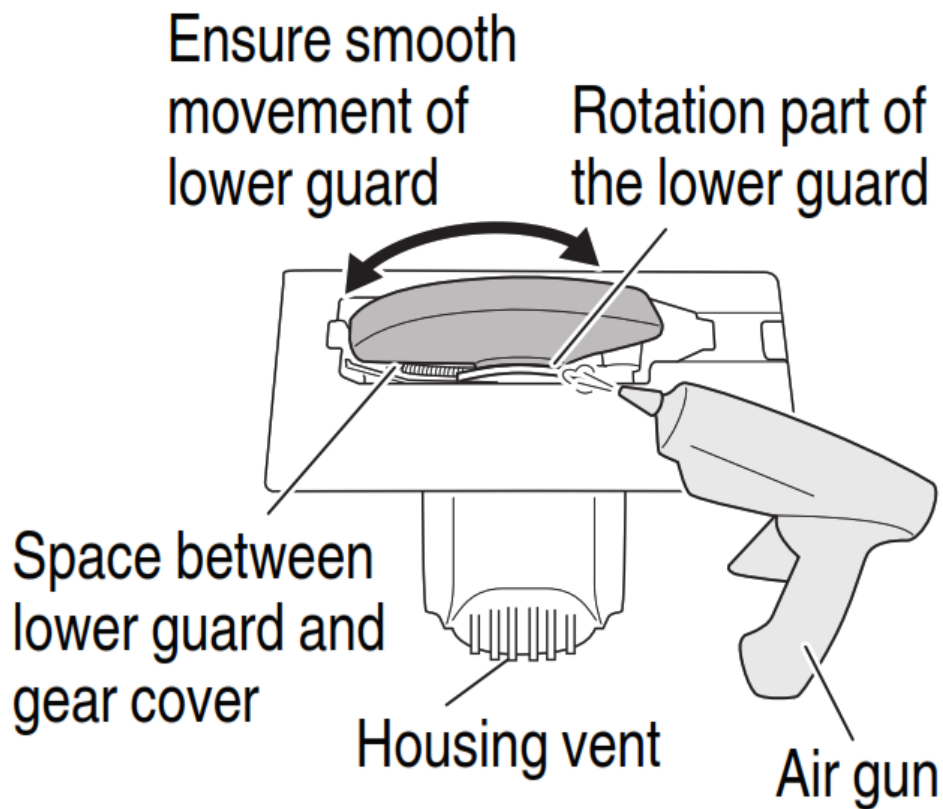
#### 7. Motor unit maintenance

The motor winding is an important part of this tool. Avoid damaging and be careful to avoid contact with cleaning oil or water.

After 50 hours of use, clean the motor by blowing into the ventilation holes of the motor housing with dry air from an air gun or other tool (**Fig. 12**).

Dust or particle accumulation in the motor can result in damage.





**Fig. 12**

8. Inspecting and maintaining the lower guard Always make sure that the lower guard moves smoothly. In the event of any malfunction, immediately repair the lower guard.
- For cleaning and maintenance, use an air gun or other tool to blow clean the space between the lower guard and gear cover as well as the rotation part of the lower guard with dry air (**Fig. 12**).
- Doing so is effective for the emission of chips or other particles.
- Accumulation of chips or other particles around the lower guard may result in malfunction or damage.

**WARNING**

To prevent dust inhalation or eye irritation, wear protective safety goggles and a dust mask when using an air gun or other tool to clean the lower guard, ventilation holes, or other parts of the product.

**CAUTION**

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

**ADDITIONAL INFORMATION**

Data about months and years of production see on the nameplate of the machine and package. Months coded by digits and letters: 1-9 – Jan-Sept, O-Oct, N-Nov, D-Dec. The Year of production is coded by the last digit of the current year.

# **HIKOKI**

Koki Holdings Co., Ltd.

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HIKOKI

電動工具  
Circular Saw

C 7SS



取扱説明書  
Handling instructions

## [HIKOKI C7SS Cordless Circular Saw](#) [pdf] Instruction Manual C7SS, Cordless Circular Saw, Circular Saw, C7SS, Saw