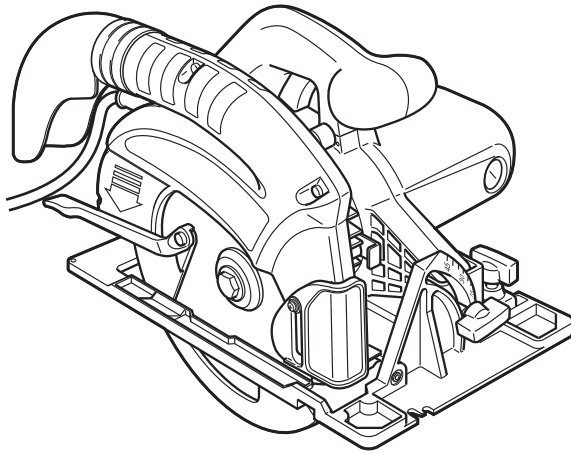




# Dust Collection Circular Saw

## MODEL C 7YA

### HANDLING INSTRUCTIONS



**Note:**




Before using this Power Tool, carefully read through these HANDLING INSTRUCTIONS to ensure efficient, safe operation. It is recommended that these INSTRUCTIONS be kept readily available as an important reference when using this power tool.



## SYMBOLS

When symbols are used on the machine, refer to the followings to understand the meaning.

V .....	volts
A .....	amperes
Hz .....	hertz
W .....	watts
kW .....	kilowatts
g .....	grams
kg .....	kilograms

min .....	minutes
s .....	seconds
$n_0$ .....	no-load speed
.../min or ...min <sup>-1</sup> .....	Revolutions or reciprocations per minute
 or d.c. ....	direct current
 or a.c. ....	Alternating current
 .....	class II tool

## 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 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 which may ignite the 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 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.

*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.

*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 mask, non-skid safety shoes, hard hat, 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 power source and/or battery pack, picking up or carrying the tool.

*Carrying power tools with your finger on the switch or energising 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 jewellery. Keep your hair, clothing and gloves away from moving parts.

*Loose clothes, jewellery 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.

*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 for 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's 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 qualified 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.

## SAFETY INSTRUCTIONS FOR ALL SAWS

### Cutting procedures

- a)  **DANGER: Keep hands away from cutting area and the blade. Keep your second hand on 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 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 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 cut and reduces the chance of blade binding.*

- g) **Always use blades with correct size and shape (diamond versus round) of arbour holes.**

*Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.*

- h) **Never use damaged or incorrect blade washers or bolt.**

*The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.*

## FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS

### 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 backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.*

- b) **When 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, centre the saw blade in the kerf and check that saw teeth are not engaged into the material.**

*If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.*

- d) **Support large panels to minimise 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 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 PENDULUM GUARD OR TOW GUARD

### Lower guard function

- a) **Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.**

*If saw is accidentally dropped, 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, in 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.**

*Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.*

- c) **Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise lower guard by retracting handle and as soon as 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 saw down on bench or floor.**

*An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path.*

*Be aware of the time it takes for the blade to stop after switch is released.*

## PRECAUTIONS ON USING CIRCULAR SAW

1. Do not use saw blades which are deformed or cracked.
2. Do not use saw blades made of high speed steel.
3. Do not use saw blades which 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 matters such as nails.
11. For model C7YA, the saw blades range should be from 185 mm to 184 mm.
12. Disconnect the plug from the receptacle before carrying out any adjustment, servicing or maintenance.
13. Do not use any abrasive wheels.

## SPECIFICATIONS

Voltage (by areas)*	(110 V, 120 V, 127 V, 220 V, 230 V, 240 V) ~
Cutting Depth	37 mm Max.
Power Input*	1400 W
No Load Speed	5500 /min
Weight (without cord)	5.1 Kg

\* Be sure to check the nameplate on product as it is subject to change by areas.

## STANDARD ACCESSORIES

(1) Saw blade .....	1
(2) Dust bag .....	1
(3) Dust guide .....	1
(4) Wrench .....	1
(5) Wing bolt (B) .....	1
(6) Lock spring .....	1
(7) Guide .....	1

Standard accessories are subject to change without notice.

## OPTIONAL ACCESSORIES (sold separately)

Optional accessories are subject to change without notice.

## APPLICATION

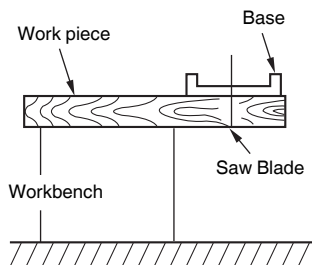
- Cutting fiber cement board  
(Ex. HARDI tex, HARDI flex weather board)

## 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, which could cause 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 work piece, place the work piece on the workbench prior to cutting. If a square block is utilized as the workbench, adjust leveling to ensure that it is properly stabilized. An unstable workbench will result in hazardous operation.

**CAUTION:**

- To avoid possible accident, remains always ensure that the portion of work piece after cutting is securely anchored or held in position.

**Fig. 1****5. Protective glasses and dustproof mask**

When you use the tool, make certain that you wear the protective glasses and the dustproof mask.

**6. Dust bag, or dust guide**

Make it absolutely sure when you use the tool to mount any one of the dust bag or dust guide that is provided as a standard accessory. For mounting details, refer to [use of dust bag] in Page 6, and [use of dust guide] in Page 7.

**7. RCD**

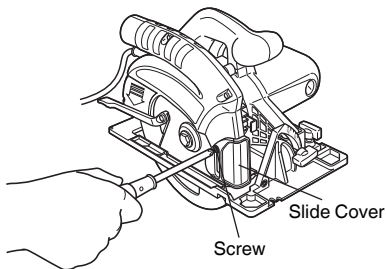
The use of a residual current device with a rated residual current of 30 mA or less at all times is recommended.

**ADJUSTING THE SAW PRIOR TO USE****1. Adjustment of slide cover****CAUTION:**

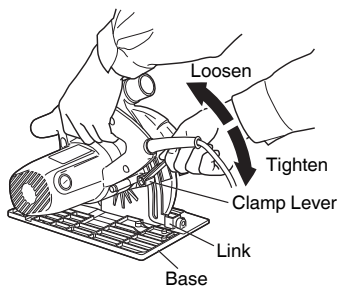
- To avoid serious accidents, ensure the switch is in OFF position, and disconnect the plug from the receptacle.

You can move the slide cover of the tool up and down. The slide cover is mounted in the lowermost position when the tool is shipped from the factory. If you use it in the originally mounted position for right-angle cutting, you can reduce the scattering sawdust particles.

When you find it difficult to inspect the blade tip, or in case of inclined cutting, or when you use the guide for cutting, loosen the screw, move the slide cover upward and make necessary adjustment before use. (For inclined cutting, fix the slide cover in the uppermost position.) Make sure that the screw is tightened securely after adjustment.

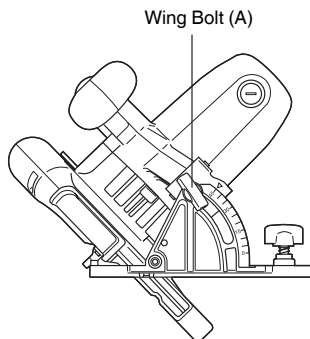
**Fig. 2****2. Adjusting the cutting depth (Fig. 3)**

To adjust cutting depth, loosen the clamp lever and, while holding the base with one hand, move the main body up and down to obtain the prescribed cutting depth. After adjusting to the prescribed cutting depth, tighten the clamp lever securely.

**Fig. 3****3. Adjusting the angle of inclination****NOTE:**

- Keep the slide cover moved up to the uppermost position before making adjustment on the angle of inclination.

As shown in Fig. 4 by loosening the wing-bolt on the inclined gauge, the saw blade may be inclined to a maximum angle of 45° in relation to the base. Always ensure that the wing-bolt is thoroughly tightened after making the desired adjustment.

**Fig. 4****4. Regulating the guide (Rip fence)****NOTE:**

- When mounting the guide, move the slide cover upward to the extent where the guide is not in touch with the slide cover.

The cutting position can be regulated by moving the guide to the left or right after loosening its wing-bolt. The guide may be mounted on either the right or left side of the tool.

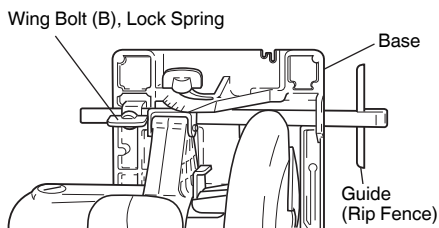


Fig. 5

## CUTTING PROCEDURES

1. Place the saw body (base) on the work piece, and as in Fig. 6 align the intended line of cut with the saw blade, using the notch at the front of the base. This relationship of base to work pieces should remain unchanged regardless of the inclination of the base.

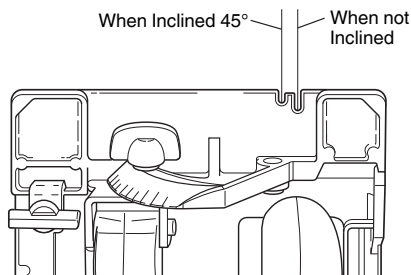


Fig. 6

2. The switch should be turned to the ON position before the saw blade comes into contact with the work piece. The switch is turned ON when the trigger is pulled by one's finger, and is turned OFF when the trigger is released.
3. Moving the saw straight at a constant speed will produce optimum cutting.

### CAUTION:

- Keep hands away from cutting edges while the circular saw is being operated.
- Should the saw blade be stopped or make an abnormal noise during operation, turn off the switch immediately.
- Don't remove circular saw from work piece during a cut while the saw blade is moving.
- Wear protective glasses and a dustproof mask.
- Avoid cutting any material like metal, etc., that give off sparks.
- Always take care in preventing the power cord from coming near the revolving saw blade.
- Mount either of the dust bag, or dust guide before use.
- Before starting to saw, ensure that the saw blade has reached full speed revolution.

## MOUNTING AND DISMOUNTING THE SAW BLADE

### CAUTION:

- To avoid serious accident ensure the switch is in the OFF position, and disconnect the plug from the receptacle.

### 1. Dismounting the saw blade (Fig. 7)

To replace the saw blade, push the lock lever, then loosen the hexagonal bolt with the wrench. The blade comes off easily.

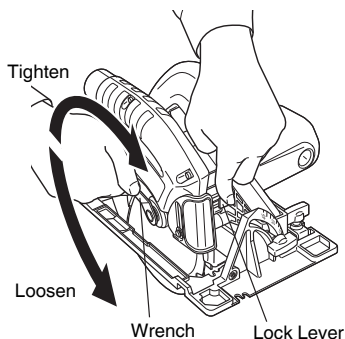


Fig. 7

### 2. Mounting the saw blade (Fig. 8)

- (1) Thoroughly remove any sawdust which has accumulated on the spindle, bolt and washers.
- (2) For mounting saw blade, the concave sides of both washers (A) and (B) must be fitted to the saw blade sides. Mount the saw blade on the spindle, and finally affix washer (B).
- (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 bolt retaining the saw blade as much as possible. Then depress the lock lever, lock the spindle, and thoroughly tighten the bolt.
- (5) Confirm that the lock lever is in the original position.

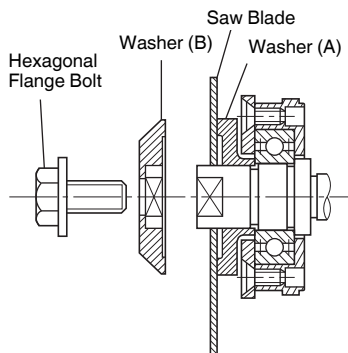


Fig. 8

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## USE OF DUST BAG

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### CAUTION:

- To avoid serious accident, ensure the switch is in the OFF position, and disconnect the plug from the receptacle.
- Never attempt to saw any material like metal and so on that give off sparks. Such action can lead to fire or injury.

### 1. Mounting the dust bag

Hold the clasp of the dust bag and insert it into the adapting mouth of the body while opening the thrusting mouth. (Fig. 9)

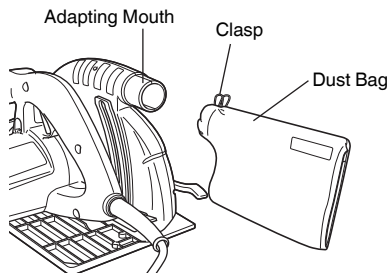


Fig. 9

### 2. Dumping sawdust and cleaning the inside of dust bag

#### NOTE:

- If too much sawdust is accumulated inside the dust bag, the dust collector will run low on power. Attempt to dump the sawdust as early as you can and clean the dust bag thoroughly so that you can enjoy your work with strong dust collecting power.

(1) Hold the clasp, open the thrusting mouth of the dust bag, and pull it off from the body.

(2) Open the fastener (Fig. 10) and dump the sawdust.

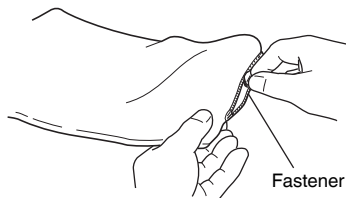


Fig. 10

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## USE OF DUST GUIDE

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### CAUTION:

- To avoid serious accidents, ensure the switch is in the OFF position, and disconnect the plug from the receptacle.
- The dust guide is a component part that changes the discharge direction of sawdust and is not a tool to collect dust. Make certain that you wear protective glasses and a dustproof mask during the use of the dust guide.
- The dust guide can change the direction of the discharge direction. Never point it in the direction of the worker.

### 1. Mounting the dust guide

(1) Insert the dust guide's thrusting mouth into the adapting mouth of the body. (Fig. 11)

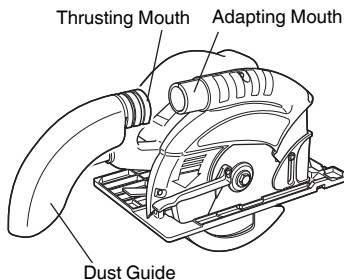


Fig. 11

(2) Turn the dust guide and point it in the desired direction to discharge sawdust. (Fig. 12)

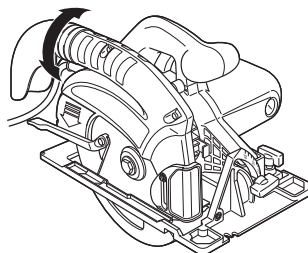


Fig. 12

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## MAINTENANCE AND INSPECTION

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### 1. Inspecting the saw blade:

Since use of a dull saw blade will degrade efficiency and cause possible motor malfunction. Resharpener and 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 hazard.

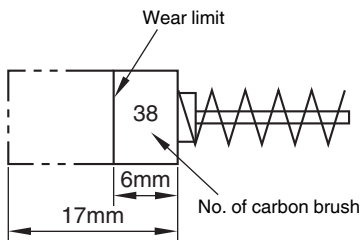
### 3. Maintenance of the motor:

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 (Fig. 13)

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 they become 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. 13**

#### 5. Replacing carbon brushes:

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

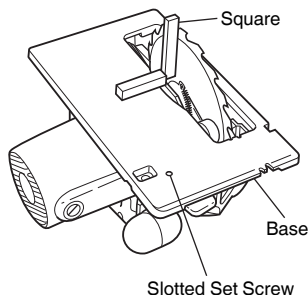
#### CAUTION:

- Not to tamper with external brush caps, or to continue to use a tool with cracked brush caps.

#### 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. 14**) and loosen the wing-nut (**Fig. 4**).
- (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.



**Fig. 14**

#### 7. Replacing supply cord

If the supply cord of Tool is damaged, the Tool must be returned to HiKOKI Authorized Service Center for the cord to be replaced.

#### 8. Service parts list

- A: Item No.
- B: Code No.
- C: No. Used
- D: Remarks

#### CAUTION

Repair, modification and inspection of HiKOKI Power Tools must be carried out by a HiKOKI Authorized Service Center.

This Parts List will be helpful if presented with the tool to the HiKOKI Authorized Service Center when requesting repair or other maintenance.

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

#### MODIFICATIONS

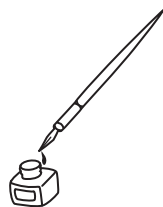
HiKOKI Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

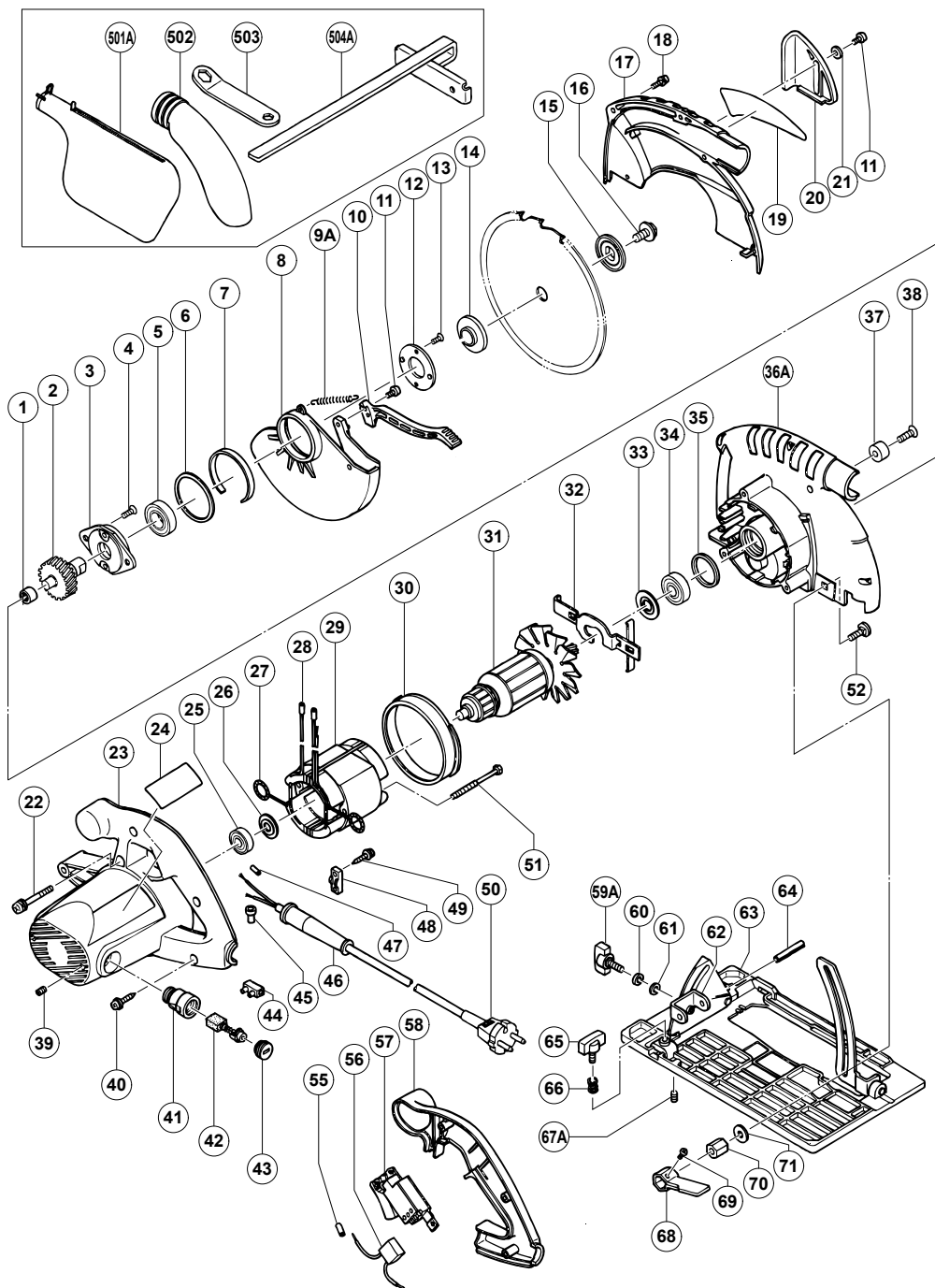
Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

#### NOTE

Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.







A	B	C	D	A	B	C	D
1	982027	1	HK1010	55	981373	1	
2	302436	1		56	930039	1	
3	302433	1		57	302446	1	
4	992013	2	M5×14	58	302422	1	
5	6003VV	1	6003VVCMP2L	59A	328923	1	M6×20
6	319524	1		60	949455	1	M6
7	961807	1		61	949425	1	M6
8	319291	1		62	306082	1	
9A	328626	1		63	319293	1	"59-62, 67"
10	319292	1		64	949686	1	D6×40
11	958523	2	M4×8	65	302697	1	M6×16.5
12	302435	1		66	947859	1	
13	990430	2	M4×10	67A	308109	1	M6×8
14	302444	1		68	302440	1	
15	302423	1		69	303631	1	M6×16.5
16	302427	1	M8×15.5	70	302441	1	
17	319288	1		71	961482	1	
18	951039	4	M4×12	501A	961523	1	
19	—	1		502	319297	1	
20	319289	1		503	957683	1	
21	319290	1		504A	302691	1	
22	302434	3	M5×45				
23	302421	1	"39, 41"				
24	—	1					
25	6000VV	1	6000VVCMP2L				
26	302428	1					
27	937623	1					
28	981373	1	FOR USA,CAN				
29-1	340199C	1	110V-115V "27, 28"				
29-2	340199G	1	220V-230V "27"				
29-3	340199F	1	240V "27"				
30	302430	1					
31-1	360187U	1	110V-115V "25, 26, 33, 34"				
31-2	360187E	1	220V-230V				
31-3	360187F	1	240V				
32	302431	1					
33	302429	1					
34	6201VV	1	6201VVCMP2L				
35	302432	1					
36A	371109	1					
37	961729	1					
38	949794	1	M6×20				
39	938477	2	M5×8				
40	301653	3	D4×20				
41	983362	2					
42	999038	2					
43	961781	2					
44	938307	1					
45	959140	1					
46-1	958049	1	D8.2				
46-2	940778	1	D10.7				
47	981373	1					
48	960266	1					
49	984750	2	D4×16				
50	—	1					
51	960251	2	D5×65				
52	942808	1	M6×20				

# Koki Holdings Co., Ltd.

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