

**Operating Instructions**

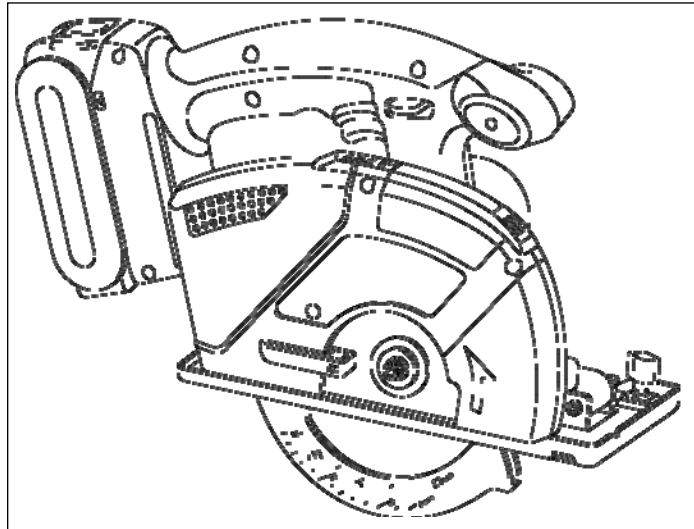
**Bedienungsanleitung**

**Panasonic**

Cordless Multi Purpose Cutter

Akku-Mehrzwecksäge

**Model No: EY4542**



**Before operating this unit, please read these instructions completely and save this manual for future use.**

**Vor Inbetriebnahme des Gerätes die Betriebsanleitung bitte gründlich durchlesen und diese Broschüre zum späteren Nachschlagen sorgfältig aufbewahren.**



A	Power switch Betriebsschalter	B	Switch lock lever Schalter-Verriegelungshebel	C	Front grip Vorderer Griff
D	Front cover Frontabdeckung	E	Transparent guard Klarsichthaube	F	Shoe Gleitschuh
G	Blade (EY9PM13C) Blatt (EY9PM13C)	H	Lower guard Untere Schutzvorrichtung	I	Retracting handle Rückzughebel
J	Dust case Staubgehäuse	K	Battery pack (EY9L40) Akkupack (EY9L40)	L	Storage slot for hex wrench Schlüsseldepot
M	Battery pack alignment mark Akku-Ausrichtmarke	N	Battery pack release button Akku-Entriegelungsknopf	O	Control panel Bedienfeld
P	Depth adjustment nut Tiefeneinstellmutter	Q	LED light LED-Leuchte	R	Spindle lock button Spindelarreterierknopf
S	LED light on/off button LED-Leuchten-EIN/AUS-Taste	T	Overheat warning lamp (battery) Überhitzungs-Warnlampe (Akku)	U	Battery low warning lamp Akkuladungs-Warnlampe
V	Hex wrench Inbusschlüssel	W	Li-ion battery pack dock Li-Ion-Akkuladeschacht	X	Battery charger (EY0L80) Ladegerät (EY0L80)
Y	Pack cover Akkuabdeckung	Z	Ni-MH/Ni-Cd battery pack dock Ni-MH/Ni-Cd-Akkuladeschacht		

# I. INTRODUCTION

This tool is a Multi Purpose Cutter. By changing the blade, it can be used to cut wood, metal, and plastic. Dust can be collected by an integrated dust case or via a connected vacuum (by attaching the hose to the cutter).

**⚠ DANGER**  
This product is a cutting tool, designed to cut through metal and wood. It has a rotating blade which is capable of cutting you deeply, causing serious injury or death. As a result, please read this manual and the cautionary markings on the tool carefully, and obey all of the Safety Instructions to avoid such injury.

**⚠ WARNING**  
To avoid injury, never insert your finger or any other object into any opening of the tool.

**⚠ 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.

## How to Use This Manual

- Please read this manual completely before starting to cut with your tool. If you let someone else use the tool, make sure they either read this manual or are fully instructed in the proper use and all safety precautions concerning the tool.
- Please keep this manual for future reference. It contains important safety information that you must follow to use the tool safely.
- This manual and product use the following signal words:

### NOTE

Notes provide additional information that you should know about the tool.

### CAUTION

Caution indicates a potentially hazardous situation, which could result in minor or moderate injury if not avoided. Cautions also alert you to unsafe practices to be avoided.

### WARNING

Warning indicates a potentially hazardous situation, which could result in serious injury or death if not avoided.

### DANGER

Danger indicates an imminent hazard which will result in serious injury or death if not avoided.

Read “the Safety Instructions” booklet and the following before using.

## II. ADDITIONAL SAFETY RULES

### Safety instructions for all saws

- ⚠ DANGER**
- 1) **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.
  - 2) **Do not reach underneath the workpiece.**  
The guard cannot protect you from the blade below the workpiece.
  - 3) **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.
  - 4) **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.
  - 5) **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.
  - 6) **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
  - 7) **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.
  - 8) **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

### Causes and operator prevention of kickback:

- 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.

- 1) **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.

- 2) **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.

- 3) **When restarting a saw in the workpiece, center 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.

- 4) **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.

- 5) **Do not use dull or damaged blades.**

Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

- 6) **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.

- 7) **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 this saw

- 1) **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.

- 2) **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.

- 3) **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.

- 4) **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.

- 5) **Do not use any abrasive wheels.**

- 6) **Wear a dust mask, if the work causes dust.**

- 7) **Use saw blades recommended by Manufacturer.**

- 8) **Wear ear protectors when using the tool for extended periods.**

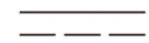
- 9) **The risk of kickback increases as the battery pack discharges.**

- 10) **Be sure to inspect material. Avoid cutting other different material.**

- 11) **Be careful not to drop the tool.**

- 12) Never swing the tool.
- 13) Never cover the ventilation slots, and keep them free from dust or other material.
- 14) Do not clamp the tool in a vise. Never cut with the tool held upside down in a vise. This is extremely dangerous and can lead to serious accidents.
- 15) Never wear knitted gloves.
- 16) Be sure no one is below when using the tool in high locations.
- 17) Do not touch the blade immediately after operation. It may be hot and could burn your skin.
- 18) Do not touch material after it has been cut. Cut material may be very hot.
- 19) Do not use cutting oil. This use of cutting oil may cause a fire.
- 20) Do not cut workpieces covered or stained with gas, oil, solvents, thinners, etc. Exposure to these materials may damage the transparent guard.
- 21) Do not remove the transparent and lower guards. If the transparent and lower guards is damaged or missing, return tool to authorized service center for replacement.
- 22) Do not start the blade when in contact with workpiece. Wait for blade to reach full speed before beginning cut.

### Symbol

Symbol	Meaning
V	Volts
	Direct current
$n_0$	No load speed
$\dots \text{min}^{-1}$	Revolutions or reciprocations
A	Amperes

### WARNING

- Do not use other than the Panasonic battery packs that are designed for use with this rechargeable tool.
- Do not dispose of the battery pack in a fire, or expose it to excessive heat.
- Do not drive the likes of nails into the battery pack, subject it to shocks, dismantle it, or attempt to modify it.
- Do not allow metal objects to touch the battery pack terminals.
- Do not carry or store the battery pack in the same container as nails or similar metal objects.
- Do not charge the battery pack in a high-temperature location, such as next to a fire or in direct sunlight. Otherwise, the battery may overheat, catch fire, or explode.
- Never use other than the dedicated charger to charge the battery pack. Otherwise, the battery may leak, overheat, or explode.
- After removing the battery pack from the tool or the charger, always reattach the back cover. Otherwise, the battery contacts could be shorted, leading to a risk of fire.

## III. ASSEMBLY

### Attaching or Removing Battery Pack

#### CAUTION:

Before inserting battery pack, check that the power switch in the tool actuates properly and returns to the "OFF" position when released.

1. To connect the battery pack (See Fig. 2)
  - Line up the alignment marks and attach the battery pack.
    - Slide the battery pack until it locks into position.

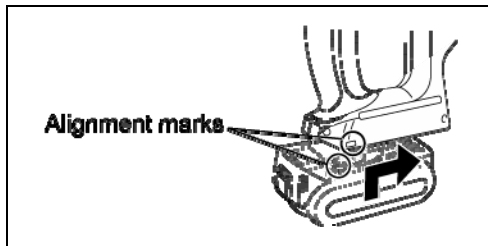


Fig. 2

- To remove the battery pack (See Fig. 3)  
Push on the button from the front to release the battery pack.

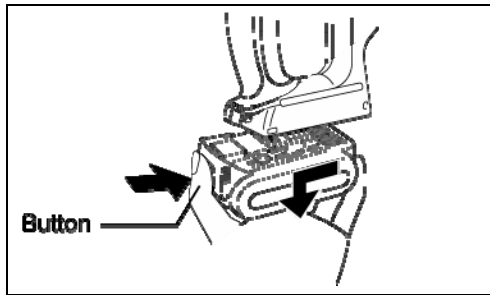


Fig. 3

## IV. OPERATION

### Before Using the Tool

This tool is intended for cutting unhardened ferrous metal, nonferrous metal, wood, and plastic. Refer to the "Accessories" section for a list of blades to be used for the proper applications of this tool. The following precautions must be followed to reduce the risk of injury;

- Do not cut stacked materials. Cut one piece at a time.
- Do not cut hardened steel.
- Cut materials with the wider edge of the shoe over the clamped side of the material.
- Do not touch the saw blade, workpiece, or cutting chips with bare hands immediately after cutting; they may be hot and could burn skin.

Each time you use the tool, you must make sure it is in good operating condition.

Use the following checklist:

- Is the blade installed in the correct direction?  
The arrow on the blade must point in the same direction as the arrow on the upper blade cover.
- Is the blade installed properly?  
Make sure the hex bolt is tightened securely. (See Fig. 6)
- Does the blade look alright?  
Replace the blade immediately if there are any cracks in it or if any teeth are broken.
- Does the lower guard close properly?

#### **⚠WARNING**

To avoid injury, do not use the tool if the lower guard does not close quickly over the blade.

- Is the transparent guard securely installed?

- Is the battery pack charged and inserted firmly to the tool?
- Is the depth adjustment nut for cutting securely tightened?
- Is the workpiece securely clamped on a saw horse or bench?
- Is the dust case or front cover clogged with dust?

Disengage the front cover lock button and remove any dust that has become clogged inside the cover. If the cover is clogged, use a long object such as a manual screwdriver to unclog it. After doing so, close the front cover. (See Fig. 4)

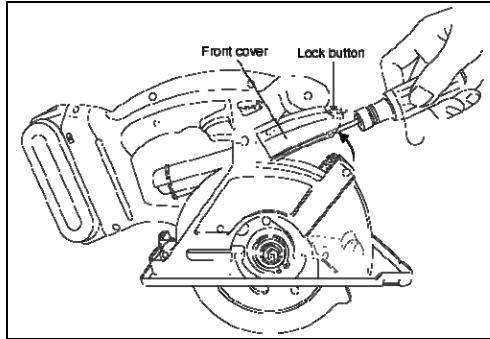


Fig. 4

If there is dust inside the dust case, disengage the dust case lock button, detach the dust case, and remove the dust. After doing so, reattach the dust case. (See Fig. 5)

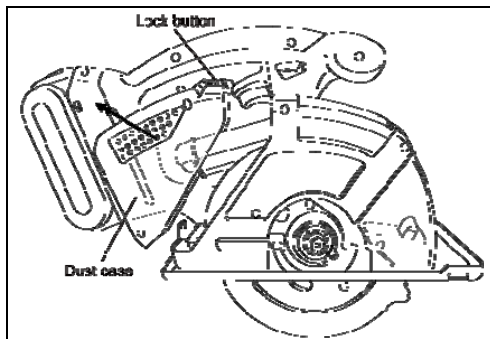


Fig. 5

## Installing Blade

Follow these steps:

1. Remove the battery pack from the tool.
2. Remove any cutting debris from blade area.
3. Use the retracting handle to retract (open) the lower guard.
4. Install the blade as illustrated. (See Fig. 6)  
Make sure that both the direction arrow on the blade and the direction arrow on the upper blade cover point in the same direction.
5. Set the outer washer in place.
6. Insert the hex bolt.
7. Hold the spindle lock button down. This prevents the blade from rotating.
8. Tighten the hex bolt securely with the provided hex wrench. Store the hex wrench.

**NOTE:**

Keep the hex wrench in the storage slot on the cutter's body when not using it.

**⚠WARNING**

Failure to follow these instructions can result in serious personal injury.

## Removing Blade

**CAUTION:**

The blade will be hot right after cutting. Be sure to let the blade cool down before removing it.

**Follow these steps:**

1. Remove the battery pack from the tool.
2. Hold the spindle lock button down. This prevents the blade from rotating.
3. Use the provided hex wrench to loosen the hex bolt.
4. Remove the hex bolt and outer washer.
5. Use the retracting handle to retract (open) the lower guard.
6. Carefully remove the blade.
7. Clean the tool if necessary.

**CAUTION:**

Be careful to avoid cutting your hands on the blade.

- When disposing of a blade, secure it inside heavy or corrugated paper. This will help prevent anyone from being cut by the discarded blade.

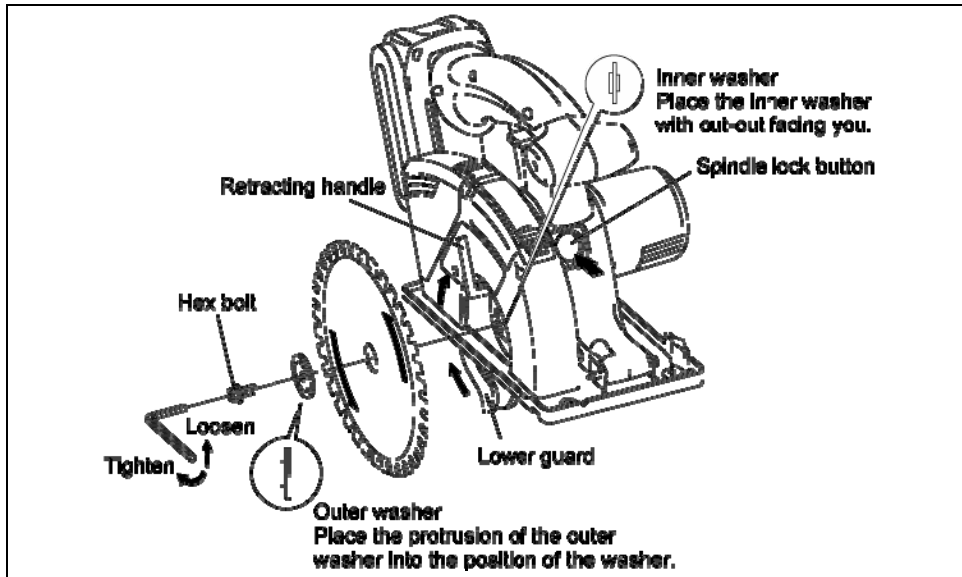


Fig. 6

## Using the Tool

### CAUTION:

To reduce the risk of injury read the Safety Instructions at the front of this manual before using the tool.

### ⚠WARNING

To reduce the risk of injury, wear safety goggles or glasses with side shields while using the cutter. Additionally, wear a dust mask when cutting materials that generate excessive particulate matter. Do not use cutter in the rain. Doing so may result in electric shock or cause the cutter to emit smoke.

Do not cut materials on which there is any paint thinner, gasoline, oil, or similar build-up. Doing so may cause the dust case to crack, resulting in injury.

Follow these steps:

Hold the tool with both hands. (See Fig. 8) Do not attempt to remove cut material when blade is moving.

1. Line up the sight line on shoe with your cutting line. (See Fig. 7)

### Alignment with cutting line

•Position the notch on the shoe over the cutting line, aligning the top and bottom corners of the diamond-shaped opening with the line.

As the cutting position may differ depending on the blade, do a trial cut beforehand.

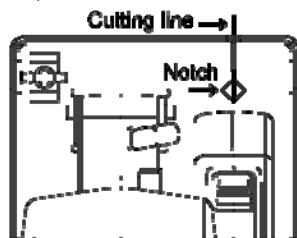


Fig. 7

2. Press the switch lock lever down, then squeeze the power switch to start the motor, and then release the switch lock lever.

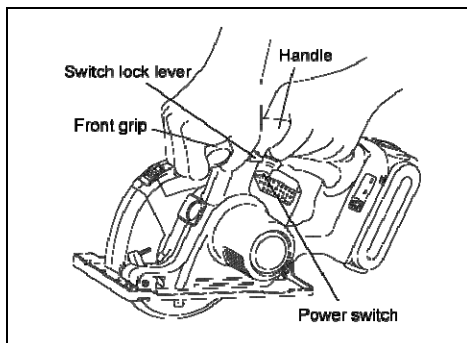


Fig. 8

### CAUTION:

- Check that the switch lock lever works. If power switch can be activated without depressing the switch lock lever, discontinue use immediately. Take the tool to an authorized service center.

- Always hold the handle with one hand and the front grip with the other. (See Fig. 8) Maintain a firm grip and depress the switch fully.

- The blade should not touch the cutting material before you start the motor. Wait until the blade reaches full speed before starting a cut.

- This tool has no provision to lock the power switch in the "ON" position, and you must not attempt to secure it in the "ON" position.

3. Start cutting when the blade reaches full speed.

4. During cutting, keep your cutting line straight. Move the tool forward at a steady speed, while looking at the tip of the blade through the transparent guard.

### ⚠WARNING

- To prevent dangerous kickback, keep the shoe of the tool flat on the surface of the material being cut.

- Never force the tool. Use light and continuous pressure.

5. If the motor starts to feel too warm, stop cutting. Let the tool cool down before continuing work.

6. It is always a safe practice to remove the battery pack after use and before storing the tool.

## Cutting depth adjustment

- Remove battery pack.

- Loosen the depth adjustment nut and adjust the cutting depth, using the graduations on the lower guard to gauge the depth. Once finished adjusting the depth, tighten the depth adjust-

ment nut securely.

- \* When wood material is 10 mm (3/8") or less thick, adjust the cutting depth so that the blade protrudes approx. 5 mm (3/16") from the bottom of the material.

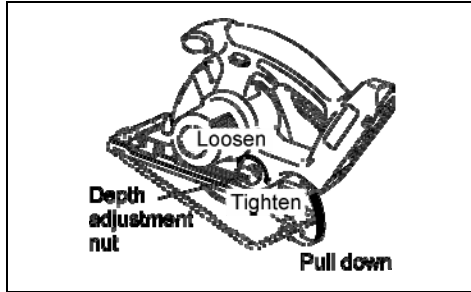


Fig. 9

## Rip fence (EY3500B7727)

(Available as an accessory, not included)

Rip fence is convenient for rip cuts and repeated cuts of uniform width.

- Remove battery pack.
- Insert rip fence and adjust cutting width. (See Fig. 10)
- Fasten screw securely to fix rip fence.

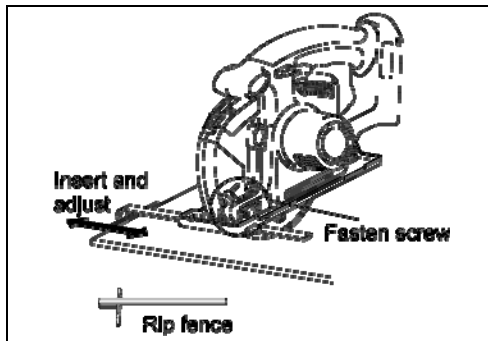


Fig. 10

## Collecting Dust

### ⚠WARNING

- \* Before cutting metal materials, always empty the dust case, open the front cover and remove the dust.
  - Use the cutter with the flammable materials in the dust case to cut metal materials may result in fire.
- \* When cutting metal materials, always use the cutter with the dust case attached.
  - Flying sparks and metal chips may cause in-

jury.

- \* When cutting metal materials, do not attach a vacuum cleaner.

Sparks and hot metal chips may cause the vacuum to be caught in fire. Operate the vacuum cleaner in accordance with its instructions.

- (1) Collect dust in the dust case.

- \* Empty the dust case when it is filled up with dust.
- \* Empty the dust case before storing the cutter.
- \* Dust case capacity
  - When cutting electrical conduit with a diameter of 25 mm (1"), approximately xx cuts
  - When cutting 45 mm (25/32") x 45 mm (25/32") lumber, approximately xx cuts

### NOTE

The unique physical properties of some materials may cause dust to become clogged inside the front cover when cutting those materials.

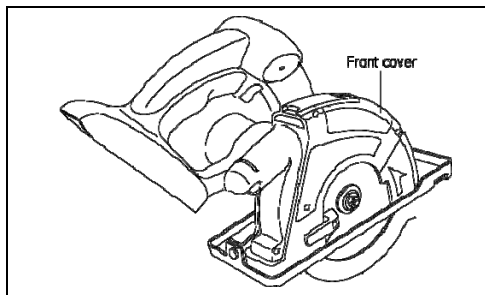


Fig. 11

- (2) Use with vacuum cleaner to collect dust.

- \* Connect the cutter to the hose using the EY9X012E vacuum cleaner hose adapter (sold separately).  
Compatible hose inner diameter: 25 mm (1") to 38 mm (2/1")
- \* Operate the vacuum cleaner obeying its instructions.

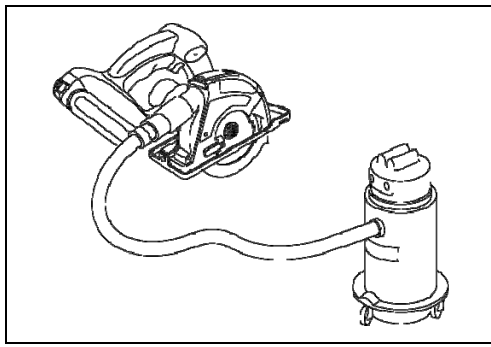


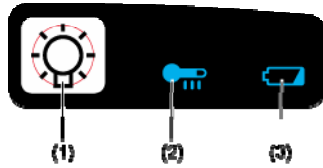
Fig. 12

**NOTE**

When the cutter has difficulty ejecting or collecting dust.

The cutter outlet may be clogged with dust. Open the front cover and remove any dust.

**Control Panel**



**(1) LED light**

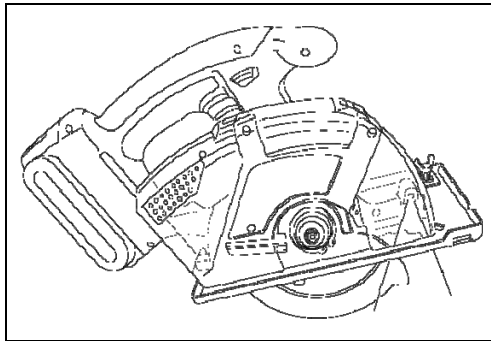


Fig. 13

Pressing (1) (LED light ON/OFF button) toggles the LED light on and off.

The light illuminates with very low current, and it does not adversely affect the performance of the tool during use or its battery capacity.

**CAUTION:**

- The built-in LED light is designed to illuminate the small work area temporarily.
- Do not use it as a substitute for a regular

flashlight, since it does not have enough brightness.

- Power automatically turns off immediately after the battery pack is installed or when the LED light is on and the driver has not been used for 5 minutes or more or when the LED light is turned off and the driver has not been used for 1 minute or more. Please depress the switch to operate the drill again.

This tool has the built-in LED light.



This tool is classified into "Class 1 LED Product" to IEC (EN) 60825-1:2001.

Class 1 LED Product

**Caution: DO NOT STARE INTO BEAM.**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



**(2) Overheat warning lamp**

	▶	
<p>Off (normal operation)</p>		<p>Flashing: Overheat Indicates operation has been halted due to battery overheating.</p>

The overheating protection feature halts tool operation to protect the battery pack in the event of overheating. The overheat warning lamp on the control panel flashes when this feature is active.

- If the overheating protection feature activates, allow the tool to cool thoroughly (at least 30 minutes). The tool is ready for use when the overheat warning lamp goes out.
- Avoid using the tool in a way that causes the overheating protection feature to activate repeatedly.

**(3) Battery low warning lamp**

	▶	
<p>Off (normal operation)</p>		<p>Flashing (No charge) Battery protection feature active</p>

Excessive (complete) discharging of lithium

ion batteries shortens their service life dramatically. The tool includes a battery protection feature designed to prevent excessive discharging of the battery pack.

- The battery protection feature activates immediately before the battery loses its charge, causing the battery low warning lamp to flash.
- If you notice the battery low warning lamp flashing, charge the battery pack immediately.

### For Proper Use (Further Detail)

#### **⚠WARNING**

To prevent the risk of serious personal injury:

- It is important to use an appropriate device to hold the material being cut properly, and to hold the cutter firmly with both hands to prevent loss of control which could cause personal injury.

- Figure 14 shows proper cutting position.
- Note that hands are kept away from cutting area.
- Make sure bystanders are away from work area and from underneath of workpiece.
- When cutting, do not try to hold the material with your hand.

#### **Cutting large sheets;**

Support large sheets. Be sure to set the depth of the cut so that you only cut through the workpiece, not through the supports. (See Fig. 15)

Large sheets sag or bend if they are not correctly supported. If you attempt to cut without levelling and properly supporting the workpiece, the blade will tend to bind, causing kickback. (See Fig. 16)

- Don't support the material away from the cut.

#### **Cutting thin or corrugated materials;**

Cut thin and corrugated materials at least 1" from the edge of the workpiece to avoid injury or damage to the tool caused by thin strips of metal being pulled into the upper guard.

- Use sharp blades only. Clean and sharp blades minimize stalling and kickback.

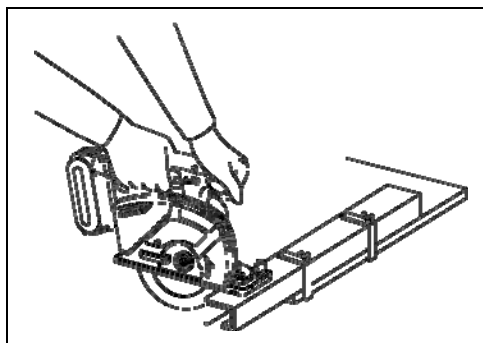


Fig. 14

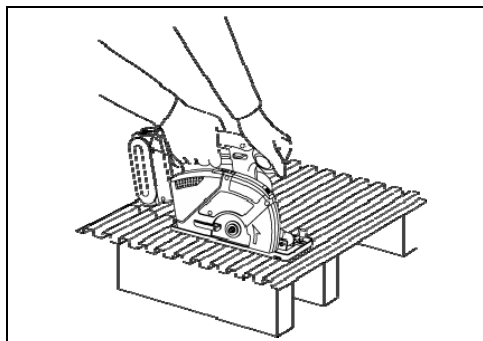


Fig. 15

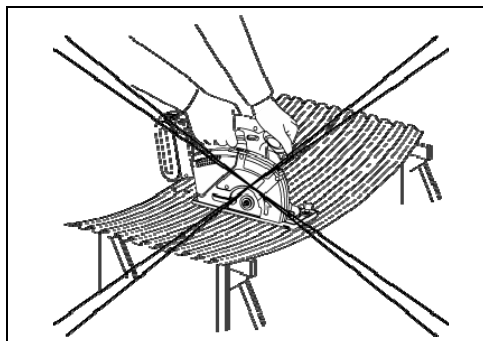


Fig. 16

**⚠WARNING**

To prevent the risk of serious personal injury:

- When making an incomplete cut or cutting is interrupted, or blade is binding or cutter is stalling; release the power switch immediately and hold the cutter motionless in the material until the blade comes to a complete stop.
- To avoid kickback, never attempt to remove the cutter from the work or pull the cutter backward while the blade is in motion. Make sure the blade has come to a complete stop, then remove cutter from cut.
- To resume cutting, start cutter, allow the blade to reach full speed, reenter the cut slowly and resume cutting.

1. Place the wider part of the shoe on the part of the work piece which is solidly supported (See Fig. 17), never on the section that will fall off when the cut is made. (See Fig. 18)  
Hold the cutter firmly to prevent loss of control. Working carelessly can cause severe personal injury.

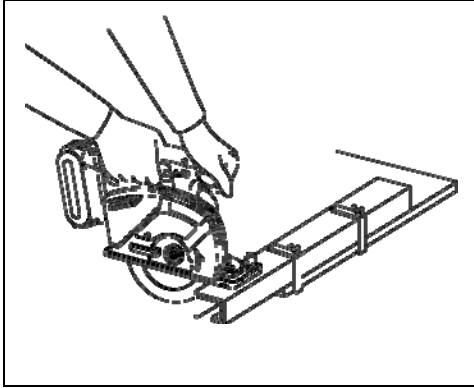


Fig. 17

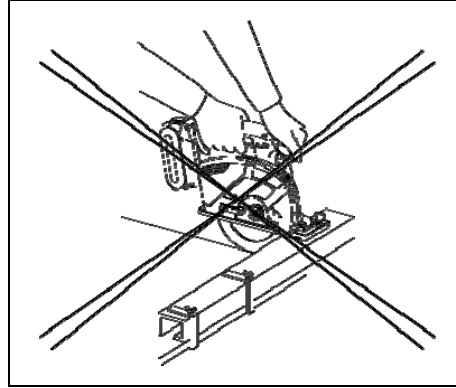


Fig. 18

2. Make sure the blade stops.

Even though your tool has a brake, before setting the tool down, make sure the blade has come to a complete stop and the lower guard has closed.

3. Do not use if anything seem unusual. Remove battery pack immediately.

If the tool body becomes very hot, or does not work properly, remove the battery pack and do not use. Have it checked by an authorized service center.

**⚠WARNING**

To prevent the risk of serious personal injury or fire, do not try to repair the tool by yourself. Never disassemble or modify the tool body. There are no user-repairable parts inside.

4. NEVER ALLOW THE CUTTER TO COME IN CONTACT WITH YOUR BODY.

After completing a cut, do not allow the cutter to brush against your leg or side.

Since the lower guard is retractable, it could catch on your clothing and expose the blade. Keep clothing away from tool. Be aware of the exposed blade sections that exist in both the upper and lower guard areas.

**⚠WARNING**

Because cutting metal creates sparks;

- Always use safety goggles.
- Do not use tool near any flammable substance or in an area where flammable substances are used. Fire and burn injury could result.

5. Never engage the spindle lock while blade is running, or engage in an effort to stop the tool. Never turn the switch on when the spindle lock is engaged. Serious damage to your tool will result.

## [Battery Pack]

### For Appropriate Use of Battery pack

#### Li-ion Battery pack (EY9L40)

- For optimum battery life, store the Li-ion battery pack following use without charging it.
- When charging the battery pack, confirm that the terminals on the battery charger are free of foreign substances such as dust and water etc. Clean the terminals before charging the battery pack if any foreign substances are found on the terminals.  
The life of the battery pack terminals may be affected by foreign substances such as dust and water etc. during operation.
- When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.  
Shorting the battery terminals together may cause sparks, burns or a fire.
- When operating the battery pack, make sure the work place is well ventilated.
- When the battery pack is removed from the main body of the tool, replace the battery pack cover immediately in order to prevent dust or dirt from contaminating the battery terminals and causing a short circuit.



#### Battery Pack Life

The rechargeable batteries have a limited life. If the operation time becomes extremely short after recharging, replace the battery pack with a new one.

#### Battery Recycling

##### ATTENTION:

For environmental protection and recycling of materials, be sure that it is disposed of at an officially assigned location, if there is one in your country.

## [Battery Charger]

### Charging

#### Cautions for the Li-ion Battery Pack

- If the temperature of the battery pack falls approximately below  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ), charging will automatically stop to prevent degradation of the battery.

#### Common Cautions for the Li-ion/Ni-MH/Ni-Cd Battery Pack

- The ambient temperature range is between  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ) and  $40^{\circ}\text{C}$  ( $104^{\circ}\text{F}$ ).  
If the battery pack is used when the battery temperature is below  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ), the tool may fail to function properly.
- When charging a cool battery pack (below  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ )) in a warm place, leave the battery pack at the place and wait for more than one hour to warm up the battery to the level of the ambient temperature.
- Cool down the charger when charging more than two battery packs consecutively.
- Do not insert your fingers into contact hole, when holding charger or any other occasions.

##### CAUTION:

To prevent the risk of fire or damage to the battery charger.

- Do not use power source from an engine generator.
- Do not cover vent holes on the charger and the battery pack.
- Unplug the charger when not in use.

#### Li-ion Battery Pack

##### NOTE:

Your battery pack is not fully charged at the time of purchase. Be sure to charge the battery before use.

##### Battery charger (EY0L80)

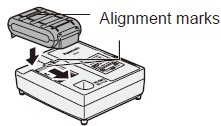
1. Plug the charger into the AC outlet.

##### NOTE:

Sparks may be produced when the plug is inserted into the AC power supply, but this is not a problem in terms of safety.

2. Insert the battery pack firmly into the charger.

1. Line up the alignment marks and place the battery onto the dock on the charger.
2. Slide forward in the direction of the arrow.



3. During charging, the charging lamp will be lit. When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging.
  - Charging will not start if the battery pack is warm (for example, immediately after heavy-duty operation). The orange standby lamp will be flashing until the battery cools down. Charging will then begin automatically.
4. The charge lamp (green) will flash slowly once the battery is approximately 80% charged.
5. When charging is completed, the charging lamp will start flashing quickly in green color.
6. If the temperature of the battery pack is 0°C or less, charging takes longer to fully charge the battery pack than the standard charging time. Even when the battery is fully charged, it will have approximately 50% of the power of a fully charged battery at normal operating temperature.
7. If the power lamp does not light immediately after the charger is plugged in, or if after the standard charging time the charging lamp does not flash quickly in green, consult an authorized dealer.
8. If a fully charged battery pack is inserted into the charger again, the charging lamp lights up. After several minutes, the charging lamp may flash quickly to indicate the charging is completed.

## Ni-MH/Ni-Cd Battery Pack

### NOTE:

When you charge the battery pack for the first time, or after prolonged storage, charge it for about 24 hours to bring the battery up to full capacity.

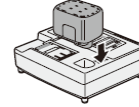
### Battery charger (EY0L80)

1. Plug the charger into the AC outlet.

### NOTE:


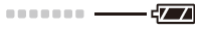


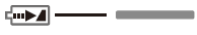



Sparks may be produced when the plug is inserted into the AC power supply, but this is not a problem in terms of safety.

2. Insert the battery pack firmly into the charger.



3. During charging, the charging lamp will be lit. When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging.
  - Charging will not start if the battery pack is warm (for example, immediately after heavy-duty operation). The orange standby lamp will be flashing until the battery cools down. Charging will then begin automatically.
4. When charging is completed, the charging lamp will start flashing quickly in green color.
5. If the charging lamp does not light immediately after the charger is plugged in, or if after the standard charging time the charging lamp does not flash quickly in green, consult an authorized dealer.
6. If a fully charged battery pack is inserted into the charger again, the charging lamp lights up. After several minutes, the charging lamp may flash quickly to indicate the charging is completed.

## LAMP INDICATIONS

	Green Lit Charger is plugged into the AC outlet. Ready to charge.
	Green Flashing Quickly Charging is completed. (Full charge.)
	Green Flashing Battery is approximately 80% charged. (Usable charge. Li-ion only.)
	Green Lit Now charging.
	Orange Lit Battery pack is cool. The battery pack is being charged slowly to reduce the load on the battery. (Li-ion only.)
	Orange Flashing Battery pack is warm. Charging will begin when temperature of battery pack drops. If the temperature of the battery pack is $-10^{\circ}\text{C}$ or less, the charging status lamp (orange) will also start flashing. Charging will begin when the temperature of the battery pack goes up (Li-ion only).
	Charging Status Lamp Left: green Right: orange will be displayed.
	Both Orange and Green Flashing Quickly Charging is not possible. Clogged with dust or malfunction of the battery pack.

### Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.



For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### [Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

### Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

## V. MAINTENANCE

### **⚠WARNING**

To avoid severe personal injury, always remove the battery pack from the tool before starting any maintenance procedure.

### **CAUTION:**

To assure product SAFETY and RELIABILITY, servicing should be performed by an authorized service center. Always insist on genuine Panasonic replacement parts.

### **Cleaning Tool**

Keep your tool clean for good cutting performance, and to help keep it safe to use.

Follow these steps:

1. Remove the battery pack from the tool.
2. Wipe the tool with a dry, soft cloth. Do not use a wet cloth or cleaning liquids. They could damage the cutter's finish.
3. Be sure to rub off any oil or grease which could make the tool slippery or hard to handle.
4. Remove the blade and brush off any dust.

### **CAUTION:**

To avoid injury or damage to the unit, never immerse any part of the tool in a liquid.

### **Transparent Guard**

### **⚠WARNING**

If the guard is cracked, or is broken, take the tool to an authorized service center for replacement. Do not attempt to operate cutter. It could result in serious personal injury. Never use your tool with a damaged transparent guard or without the transparent guard installed. Flying chips could result in serious injury.

## VI. ACCESSORIES

### **⚠WARNING**

- The use of any accessories not specified in this manual may result in fire, electric shock, or personal injury. Use recommended accessories only.
- Use of a blade on material that is thicker or thinner than that recommended for that blade will result in a rough cut, and could increase the risk of "kickback" or other injury.

Carbide-tipped Blade for Metal

- EY9PM13C  
For cutting unhardened ferrous material

Carbide-tipped Blade for Thin Metal (Optional accessory)

- EY9PM13D  
For cutting unhardened thin ferrous material

Carbide-tipped Blade for Wood (Optional accessory)

- EY9PW13A  
For cutting wood

Carbide-tipped Blade for Thin Wood (Optional accessory)

- EY9PW13B  
For cutting thin wood

Carbide-tipped Blade for Plastic (Optional accessory)

- EY9PP13B  
For cutting plastic material

Vacuum hose adaptor (Optional accessory)

- EY9X012E

Rip Fence (Optional accessory)

- EY3500B7727  
For convenience of rip cuts and repeated cut of uniform width

## VII. SPECIFICATIONS

Motor voltage	14.4 V DC
Blade speed	XX min <sup>-1</sup> (rpm)
Blade size	
Outside diameter	135 mm (5-5/16")
Arbor size	20 mm (25/32")
Maximum cutting depth	0 – 46 mm (0" – 1-13/16") (φ 165 mm blade)
Overall length	329 mm (12-61/64")
Weight (with battery pack)	2.6 kg (5.7 lbs)

### BATTERY PACK

Model	EY9L40
Storage battery	Li-ion Battery
Battery voltage	14.4 V DC (3.6 V × 4 cells)
Capacity	3 Ah

### BATTERY CHARGER

Model	EY0L80
Electrical rating	See the rating plate on the bottom of the charger.
Weight	0.95 kg (2.1 lbs)

#### [Li-ion battery pack]

Charging time	3 Ah	14.4 V	21.6 V	28.8 V
		EY9L40	EY9L60	EY9L80
		Usable: 35 min.	Usable: 45 min.	Usable: 55 min.
Full: 50 min.	Full: 60 min.	Full: 70 min.		

**[Ni-Cd/Ni-MH battery pack]**

		7.2 V	9.6 V	12 V	15.6 V	18 V	24 V
Charging time	1.2 Ah	EY9065 EY9066	EY9080 EY9086	EY9001			
	20 min.						
	1.7 Ah		EY9180 EY9182	EY9101 EY9103			
	25 min.						
	2 Ah	EY9168	EY9188	EY9106 EY9107 EY9108	EY9136		EY9116 EY9117
30 min.							60 min.
3 Ah			EY9200	EY9230		EY9210	
45 min.							90 min.
3.5 Ah			EY9201	EY9231	EY9251		
55 min.							65 min.

**NOTE:** This chart may include models that are not available in your area.  
Please refer to the latest general catalogue.



**ONLY FOR U.K.**

**VIII. ELECTRICAL PLUG INFORMATION**

**FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY**

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amp and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

**IMPORTANT:**

The wires in this mains lead are coloured in accordance with the following code:


Blue: Neutral

Brown: Live

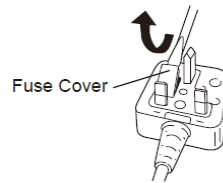
As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

**How to replace the fuse:** Open the fuse compartment with a screwdriver and replace the fuse and fuse cover if it is removable.



**Panasonic Electric Works Co., Ltd.**  
1048, Kadoma, Osaka 571-8686, Japan

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