

Panasonic

Cordless Impact Driver/Cordless Impact Wrench
Perceuse à impact sans fil/Perceuse à impact sans fil
Destornillador de impacto inalámbrico/Destornillador de impacto inalámbrico

Operating Instructions
Instructions d'utilisation
Manual de instrucciones

Model No: EY75A1/EY75A2



IMPORTANT

This manual contains safety information. Read manual completely before first using this product and save this manual for future use.

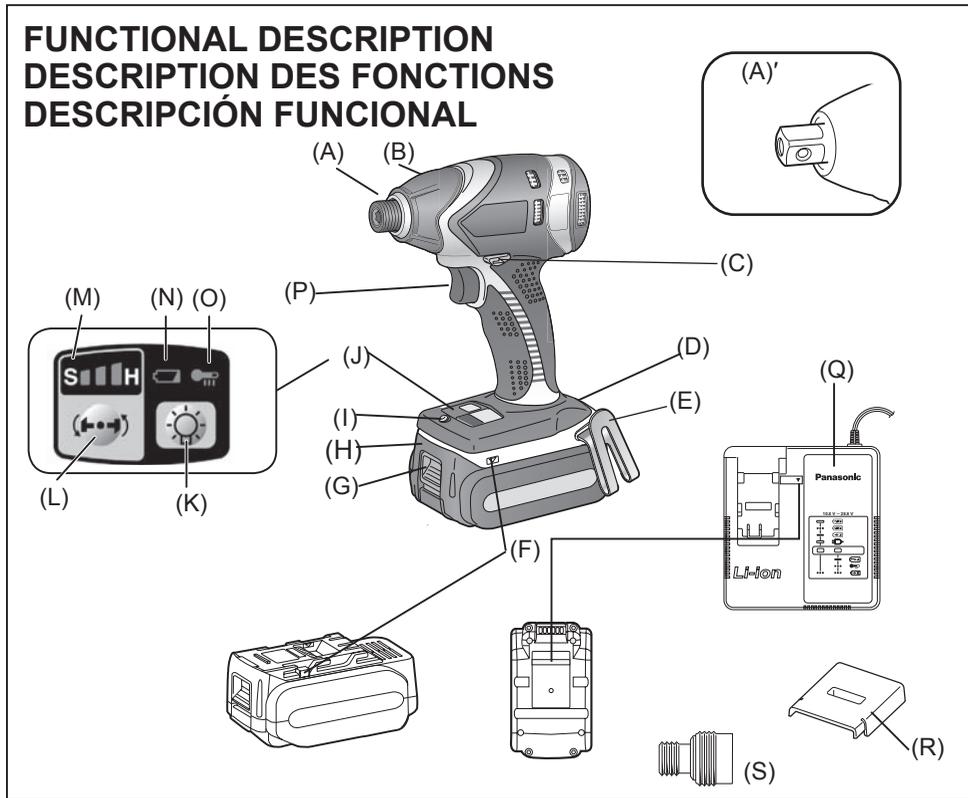
IMPORTANT

Ce mode d'emploi contient des informations sur la sécurité. Lisez-le en entier avant d'utiliser le produit et conservez-le pour référence.

IMPORTANTE

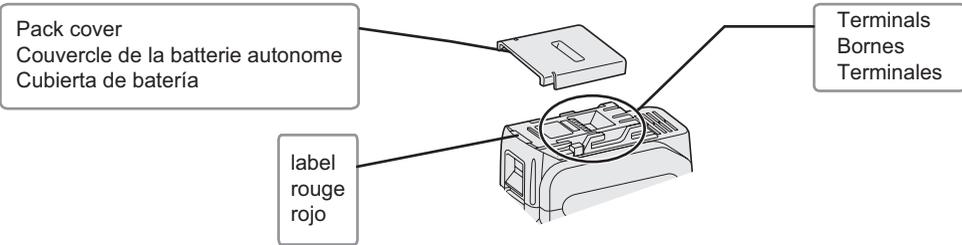
Este manual contiene información de seguridad. Lea completamente este manual antes de utilizar por primera vez este producto, y guárdelo para poder consultarlo en el futuro.

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(A)	6.35 mm (1/4") hex quick connect chuck	Mandrin de connexion rapide hexagonal de 6,35 mm (1/4")	Mandril hexagonal de conexión rápida de 6,35 mm (1/4")
(A')	Square drive (ball detent)	Mandrin	Portabroca
(B)	Nose protector	Protection du bec	Protector del morro
(C)	Forward/Reverse lever	Levier d'inversion marche avant/marche arrière	Palanca de avance/marcha atrás
(D)	Belt hook lock lever	Levier de verrouillage du crochet de ceinture	Palanca de bloqueo del gancho de cinturón
(E)	Belt hook	Crochet de ceinture	Gancho del cinturón
(F)	Alignment marks	Marques d'alignement	Marcas de alineación
(G)	Battery pack release button	Bouton de libération de batterie autonome	Botón de liberación de batería
(H)	Battery pack	Batterie autonome	Batería
(I)	LED light	Lumière DEL	Luz indicadora
(J)	Control panel	Panneau de commande	Panel de control
(K)	LED light ON/OFF button	Bouton Marche/Arrêt de la lumière DEL	Botón ON/OFF de luz LED
(L)	Impact power mode button	Bouton du mode de puissance de percussion	Botón de modo de potencia de impacto
(M)	Impact power mode display	Affichage du mode de puissance de percussion	Indicación de modo de potencia de impacto
(N)	Battery low warning lamp	Témoin d'avertissement de batterie basse	Luz de aviso de baja carga de batería
(O)	Overheat warning lamp (motor/battery)	Témoin d'avertissement de surchauffe (moteur/batterie)	Luz de advertencia de sobrecalentamiento (motor/batería)
(P)	Variable speed control trigger	Gâchette de commande de vitesse	Disparador del control de velocidad variable
(Q)	Battery charger	Chargeur de batterie	Cargador de batería
(R)	Pack cover	Couvercle de la batterie autonome	Cubierta de batería
(S)	6.35 mm (1/4") hex quick change chuck (EY9HX110E)	Mandrin hexagonal de 6,35 mm (1/4") de changement rapide (EY9HX110E)	Portabroca de 6,35 mm (1/4") cambio rápido hexagonal (EY9HX110E)

Recommendations for use / Recommandations concernant l'utilisation / Recomendaciones par el uso



GB Be sure to use the Pack cover

- When the battery pack is not being used, store the battery in a way that foreign substances such as dust and water etc. do not contaminate the terminals. Be sure to attach the battery pack cover to protect the battery terminals.
- 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.

⚠ CAUTION: To protect the motor or battery, be sure to note the following when carrying out this operation.

- If the motor or battery becomes hot, the protection function will be activated and the motor or battery will stop operating.
The overheat warning lamp on the control panel illuminates or flashes when this feature is active.

For safe use

- The battery pack is designed to be installed by proceeding two steps for safety. Make sure the battery pack is installed properly to the main body before use.
- If the battery pack is not inserted firmly when the switch is switched on, the overheat warning lamp and the battery low warning lamp will flash to indicate that safe operation is not possible, and the bit will not rotate normally. Insert the battery pack into the body of the tool until the red label disappears.

F **Veillez à utiliser le couvercle de la batterie autonome**

- Lorsque le couvercle de la batterie autonome n'est pas utilisé, rangez la batterie de façon à ce qu'aucun corps étranger comme de la poussière et de l'eau ne contamine les bornes. Veillez à fixer le couvercle de la batterie autonome afin de protéger les bornes de la batterie.
- Lors de la charge de la batterie autonome, assurez-vous que les bornes du chargeur de batterie sont libres de tout corps étranger comme de la poussière et de l'eau, etc. Nettoyez les bornes avant de charger la batterie autonome si des corps étrangers se trouvent sur les bornes.
La durée de vie des bornes de la batterie autonome peut être affectée par des corps étrangers comme de la poussière et de l'eau, etc. pendant le fonctionnement.

⚠ MISE EN GARDE: Pour protéger le moteur ou la batterie, veillez à bien noter les points suivants lorsque vous effectuez cette opération.

- Si le moteur ou la batterie deviennent chauds, la fonction de protection sera activée et le moteur ou la batterie cesseront de fonctionner. Le témoin d'avertissement de surchauffe s'allume ou clignote sur le panneau de commande lorsque cette caractéristique est active.

Pour un usage sans risque

- La batterie est conçue pour être installée en procédant en deux étapes pour des raisons de sécurité. Assurez-vous que la batterie est mise en place correctement avant d'utiliser l'outil.
- Lorsque la batterie autonome n'est pas fermement insérée, le témoin d'avertissement de surchauffe et le témoin d'avertissement de batterie basse clignotent et la machine ne fait pas tourner la mèche comme habituellement pour nous signaler que la machine ne fonctionne pas en toute sécurité même si un interrupteur a été enclenché. Insérez la batterie autonome dans le corps de l'outil jusqu'à ce que l'indicateur rouge disparaisse.

E**Asegúrese de utilizar la cubierta de la caja de batería**

- Cuando no utilice la caja de batería, guarde la batería de tal forma que las materias extrañas tales como polvo y agua, etc. ensucien los terminales. Asegúrese de colocar la cubierta de la caja de batería de tal forma de proteger los terminales de la batería.
- Cuando cargue la caja de batería, confirme que los terminales en el cargador de batería estén libres de materias extrañas tales como polvo y agua, etc. Limpie los terminales antes de cargar la caja de batería si hay materias extrañas en los terminales.

La vida de los terminales de la caja de batería puede verse afectada por materias extrañas tales como polo y agua, etc. durante su funcionamiento.

⚠ PRECAUCIÓN: Para proteger el motor o la batería, asegúrese de observar lo siguiente cuando efectúe esta operación.

- Si el motor o la batería se calienta, se activará la función de protección y el motor o la batería dejará de funcionar. La lámpara de advertencia de sobrecalentamiento en el panel de control se ilumina o destella cuando esta característica está activada.

Para un uso más seguro

- La batería está diseñada para instalarse siguiendo dos pasos por motivos de seguridad. Compruebe que la batería está instalada correctamente en el cuerpo principal antes de utilizar la herramienta.
- Si la batería no ha quedado bien introducida, la luz de advertencia de sobrecalentamiento y la luz de aviso de baja carga de batería parpadearán, y la broca no girará del modo habitual para alertar al operario de que la máquina no funcionará de manera segura si se acciona algún interruptor. Introduzca la batería en el cuerpo de la herramienta hasta que el indicador rojo desaparezca.

This tool, as a complete unit with a battery pack, satisfies appropriate IP Degrees of Protection based on the IEC regulations.

Definition of IP code

IP5X: Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the tool or to impair safety (In case that the talcum powder under 75 μm intrudes inside the tool).

IPX6: Water projected in powerful jets against the tool from any direction shall have no harmful effects (In case that, with a nozzle of 12.5 mm inner diameter, approximately 100 L/min of normal temperature water is injected to the tool for 3 minutes from 3 meter distance).

LIMITED WARRANTY

The rating of IP56 qualifies this tool for the minimum impact of water or dust, but not for the assurance of performance in such conditions. See Safety and Operating Instructions for further details for proper operation.

I. GENERAL SAFETY RULES

⚠ WARNING! Read all instructions

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool and battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

Work Area Safety

- 1) **Keep work area clean and well lit.**
Cluttered or dark areas invite accidents.
- 2) **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.
- 3) **Keep children and bystanders away while operating a power tool.**
Distractions can cause you to lose control.

Electrical Safety

- 1) **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.
- 2) **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.
- 3) **Do not expose power tools to rain or wet conditions.**
Water entering a power tool will increase the risk of electric shock.
- 4) **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.
- 5) **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.

Personal Safety

- 1) **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 personal injury.
- 2) **Use safety equipment. Always wear eye protection.**
Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 3) **Avoid accidental starting. Ensure the switch is in the off position before plugging in.**
Carrying power tools with your finger on the switch or plugging in the power tools that have the switch on invites accidents.
- 4) **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.

- 5) **Do not overreach. Keep proper footing and balance at all times.**

This enables better control of the power tool in unexpected situations.

- 6) **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.

- 7) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.**

Use of these devices can reduce dust related hazards.

Power Tool Use and Care

- 1) **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.

- 2) **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.

- 3) **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.

- 4) **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.

- 5) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.**

Many accidents are caused by poorly maintained power tools.

- 6) **Keep cutting tools sharp and clean.**

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

- 7) **Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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.

Battery Tool Use and Care

- 1) **Ensure the switch is in the off position before inserting battery pack.**

Inserting battery pack into power tools that have the switch on invites accidents.

- 2) **Recharge only with the charger specified by the manufacturer.**

A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

- 3) **Use power tools only with specifically designated battery packs.**

Use of any other battery packs may create a risk of injury and fire.

- 4) **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 burns, or a fire.

- 5) **Under abusive conditions, liquid may be ejected from battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.**

Liquid ejected from the battery may cause irritation or burns.

Service

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

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

II. SPECIFIC SAFETY RULES

- 1) **Wear ear protection.** Exposure to noise can cause hearing loss.

- 2) Be aware that this tool is always in an operating condition, since it does not have to be plugged into an electrical outlet.
- 3) **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring.**
Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
- 4) If the bit becomes jammed, immediately turn the trigger switch off to prevent an overload which can damage the battery pack or motor. Use reverse motion to loosen jammed bits.
- 5) Do NOT operate the Forward/Reverse lever when the trigger switch is on. The battery will discharge rapidly and damage to the unit may occur.
- 6) When storing or carrying the tool, set the Forward/Reverse lever to the center position (switch lock).
- 7) Do not strain the tool by holding the speed control trigger halfway (speed control mode) so that the motor stops. The protection circuit will activate and may prevent speed control operation. If this happens, release the speed control trigger and squeeze again for normal operation.
- 8) Be careful not to get dust inside the chuck.
- 9) Do not touch the rotating parts to avoid injury.
- 10) Do not use the tool continuously for a long period of time. Stop using the tool from time to time to avoid temperature rise and heat overload of the motor.
- 11) Do not drop the tool.

Symbol	Meaning
V	Volts
---	Direct current
n_0	No load speed
$\dots \text{min}^{-1}$	Revolutions or reciprocations per minutes
Ah	Electrical capacity of battery pack
	To reduce the risk of injury user must read and understand instruction manual.

WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically-treated lumber.

To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

III. FOR BATTERY CHARGER & BATTERY PACK

Important Safety Instructions

- 1) **SAVE THESE INSTRUCTIONS** -This manual contains important safety and operating instructions for battery charger.
- 2) Before using battery charger, read all instructions and cautionary markings on battery charger, battery pack, and product using battery pack.
- 3) **CAUTION** -To reduce the risk of injury, charge only Panasonic Battery Pack as shown in last page.
Other types of batteries may burst causing personal injury and damage.
- 4) Do not expose charger and battery pack to rain or snow.
- 5) To reduce risk of damaging the electric plug and cord, pull by plug rather than cord when disconnecting charger.
- 6) Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- 7) An extension cord should not be used unless absolutely necessary.
Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure that:
 - a. pins on plug of extension cord are the same number, size and shape as those of plug on charger.

- b. extension cord is properly wired and in good electrical condition.
- c. wire size is large enough for ampere rating of charger as specified below.

RECOMMENDED MINIMUM AWG SIZE OF EXTENSION CORDS FOR BATTERY CHARGERS			
AC Input Rating.	Amperes	AWG Size of Cord	
Equal to or greater than	But less than	Length of Cord, Feet	
		25	50 100 150
0	2	18 18	18 16

- 8) Do not operate charger with damaged cord or plug-replace them immediately.
- 9) Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified service personnel.
- 10) Do not disassemble charger; take it to a qualified service personnel when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- 11) To reduce the risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
- 12) The charger and battery pack are specifically designed to work together. Do not attempt to charge any other cordless tool or battery pack with this charger.
- 13) Do not attempt to charge the battery pack with any other charger.
- 14) Do not attempt to disassemble the battery pack housing.
- 15) Do not store the tool and battery pack in locations where the temperature may reach or exceed 50°C (122°F) (such as a metal tool shed, or a car in the summer), which can lead to deterioration of the storage battery.
- 16) Do not charge battery pack when the temperature is BELOW 0°C (32°F) or ABOVE 40°C (104°F). This is very important in order to maintain optimal condition of the battery pack.
- 17) Do not incinerate the battery pack. It can explode in a fire.
- 18) Avoid dangerous environment. Do not use charger in damp or wet locations.
- 19) The charger is designed to operate on standard household electrical power only. Do not attempt to use it on any other voltage!

- 20) Do not abuse cord. Never carry charger by cord or yank it to disconnect from outlet. Keep cord away from heat, oil and sharp edges.
- 21) Charge the battery pack in a well ventilated place, do not cover the charger and battery pack with a cloth, etc., while charging.
- 22) Use of an attachment not recommended may result in a risk of fire, electric shock, or personal injury.
- 23) Do not short the battery pack. A battery short can cause a large current flow, over heating and create the risk of fire or personal injury.
- 24) NOTE: If the supply cord of this appliance is damaged, it must only be replaced by a repair shop authorized by the manufacturer, because special purpose tools are required.
- 25) TO REDUCE THE RISK OF ELECTRIC SHOCK, THIS APPLIANCE HAS A POLARIZED PLUG (ONE BLADE IS WIDER THAN THE OTHER). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

⚠ WARNING:

- Do not use other than the Panasonic battery packs that are designed for use with this rechargeable tool.
- Panasonic is not responsible for any damage or accident caused by the use of the recycled battery pack and the counterfeit battery pack.
- 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 pack cover. Otherwise, the battery contacts could be shorted, leading to a risk of fire.
- When the Battery Pack Has Deteriorated, Replace It with a New One.
Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

IV. ASSEMBLY

Attaching or Removing Bit

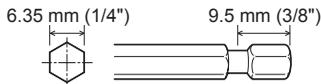
NOTE:

- When attaching or removing a bit, disconnect battery pack from tool or place the switch in the center position (switch lock).
1. Hold the collar of quick connect chuck and pull it out from the driver.
 2. Insert the bit into the chuck. Release the collar.
 3. The collar will return to its original position when it is released.
 4. Pull the bit to make sure it does not come out.
 5. To remove the bit, pull out the collar in the same way.

CAUTION:

- If the collar does not return to its original position or the bit comes out when pulled on, the bit has not been properly attached. Make sure the bit is properly attached before use.

Use 6.35 mm (1/4") hexagonal bits. To ensure proper securement of the bit, use only hexagonal bits with 9.5 mm (3/8") detent.

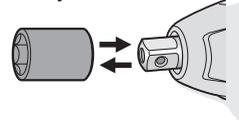


Attaching or Removing Socket

1. Attaching Socket

Attach the socket by sliding the female detent on the bottom of the socket to the square drive on the body.

Make sure the socket is firmly connected to the body.



2. Removing Socket

Pull out the socket.

NOTE:

Attaching or Removing Original Options and Sockets

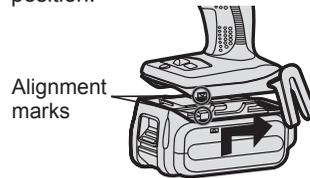
Keep the body above freezing point (0°C 32°F) when attach or detach original options and sockets to the square drive on the body. The cushion rubber in the square drive to push up the ball may get hard under freezing point. This requires extra force in detaching and attaching sockets.

Attaching or Removing Battery Pack

1. To connect the battery pack:

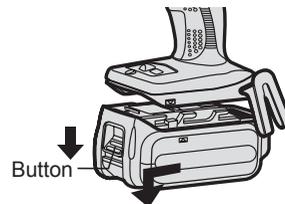
Line up the alignment marks and attach the battery pack.

- Slide the battery pack until it locks into position.



2. To remove the battery pack:

Pull the button from the front to release the battery pack.



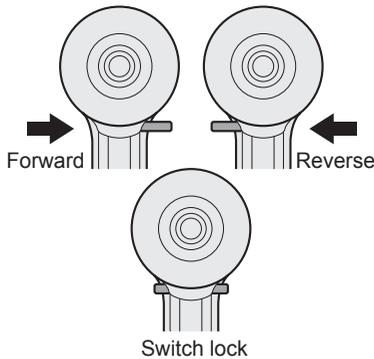
V. OPERATION

⚠ WARNING!

- Do not inhale any smoke emitted from the tool or battery pack as it may be harmful.

[Main Body]

Switch and Forward/Reverse Lever Operation



CAUTION:

To prevent damage, do not operate Forward/Reverse lever until the bit comes to a complete stop.

Forward Rotation Switch Operation

1. Push the lever for forward rotation.
2. Depress the trigger switch slightly to start the tool slowly.
3. The speed increases with the amount of depression of the trigger for efficient tightening of screws. The brake operates and the bit stops immediately when the trigger is released.
4. After use, set the lever to its center position (switch lock).

Reverse Rotation Switch Operation

1. Push the lever for reverse rotation. Check the direction of rotation before use.
2. Depress the trigger switch slightly to start the tool slowly.
3. After use, set the lever to its center position (switch lock).

CAUTION:

- To eliminate excessive temperature increase of the tool surface, do not operate the tool continuously using two or more battery packs. Tool needs cool off time before switching to another pack.

How to Use the Belt Hook

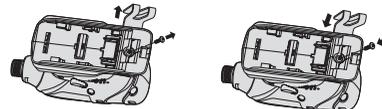
⚠ WARNING!

- Be sure to attach the belt hook securely to the main unit with the screw firmly fastened. When the belt hook is not firmly attached to the main unit, the hook may disconnect and the main unit may fall. This may result in an accident or injury.
- Periodically check screw for tightness. If found to be loose, tighten firmly.
- Be sure to attach the belt hook firmly and securely onto a waist belt or other belt. Pay attention that the unit does not slip off the belt. This may result in an accident or injury.
- When the main unit is held by the belt hook, avoid jumping or running with it. Doing so may cause the hook to slip and the main unit may fall. This may result in an accident or injury.
- When the belt hook is not used, be sure to return it to the storing position. The belt hook may catch on something. This may result in an accident or injury.
- When the unit is hooked onto the waist belt by the belt hook, do not attach driver bits to the unit. A sharp edge object, such as a drill bit, may cause injury or an accident.

To Change the Belt Hook Location Side

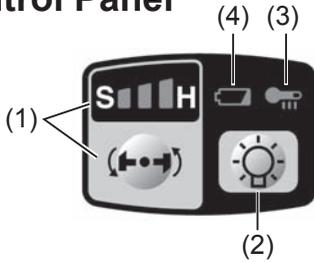
The belt hook can be attached to either side of the unit.

1. Removing the hook
 - (1) Remove the nut.
 - (2) Draw out the hook.



2. Attaching the hook to the other side
 - (1) Insert the hook in the other side.
 - (2) Tighten the nut fully so that it securely fastened.

Control Panel



(1) Impact Power Mode Select

- Selecting the impact power among 3 modes (Soft, Medium, Hard).

Press the impact power mode button to set it. The mode changes to hard, medium, or soft each time the button is pressed.

The driver is preset to “hard” impact mode setting when shipped from the manufacturer.

Recommended work guideline table

Impact Power mode Display	Recommended Application
<p>H</p>  <p>0 – 2300 r.p.m./ 0 – 2500 i.p.m. and 0 – 3000 i.p.m./ 0 – 3300 i.p.m./ 0 – 3500 i.p.m.</p>	<p>Jobs requiring a high level of torque where there is no possibility of the screw breaking, its top shearing off, or the bit coming loose. (This setting provides maximum torque.) Suitable applications include:</p> <ul style="list-style-type: none"> • Tightening M8 and larger bolts • Tightening long screws during interior finishing work
<p>M</p>  <p>0 – 1400 r.p.m. and 0 – 2800 i.p.m.</p>	<p>Jobs requiring limited torque where there is a possibility of the screw breaking or its top shearing off. (This setting limits torque.) Suitable applications include:</p> <ul style="list-style-type: none"> • Tightening bolts with smaller diameters (M6) • Tightening metalwork screws when installing fixtures
<p>S</p>  <p>0 – 1000 r.p.m. and 0 – 2000 i.p.m.</p>	<p>Jobs requiring limited torque where there is a possibility of the screw breaking, its top shearing off, or the bit coming loose and damaging a finished exterior surface. (This setting limits torque.) Suitable applications include:</p> <ul style="list-style-type: none"> • Tightening bolts smaller than M6 that may shear easily • Tightening screws into molded plastic • Installing gypsum wallboard

* i.p.m. = Impact per minute.

Avoid repeatedly depressing the switch when the bolts and screws are securely fastened.

Not doing so may cause a delay in rotation starting, or the Impact Power mode display to flash and prevent rotation from starting for circuit protection.

(2) LED light



Pressing the  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 driver 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.

This product has the built-in LED light.

This product 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.

(3) Overheat warning lamp



Off (normal operation)

▶

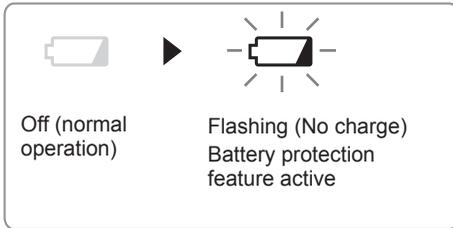


Flashing: Overheat
Indicates operation has been halted due to motor or battery overheating.

The overheating protection feature halts driver operation to protect the motor and 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 driver to cool thoroughly (at least 30 minutes). The driver is ready for use when the overheat warning lamp goes out.
- Avoid using the driver in a way that causes the overheating protection feature to activate repeatedly.

(4) Battery low warning lamp



Excessive (complete) discharging of lithium ion batteries shortens their service life dramatically. The driver 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.

Recommended Grip

Use the grip to hold and operate the driver with one hand. If the job requires additional force, you can push against the rear end of the driver with your other hand.

[Battery Pack] For Appropriate Use of Battery Pack

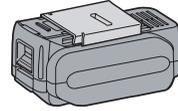
Li-ion Battery Pack

- 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 Li-ion Battery Pack

A Li-ion battery that is recyclable powers the product you have purchased. Please call **1-800-8-BATTERY** for information on how to recycle this battery.



[Battery Charger] Charging

CAUTION:

- If the temperature of the battery pack falls approximately below -10°C (14°F), charging will automatically stop to prevent degradation of the battery.
- The ambient temperature range is between 0°C (32°F) and 40°C (104°F). If the battery pack is used when the battery temperature is below 0°C (32°F), the tool may fail to function properly.
- When charging a cool battery pack (below 0°C (32°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.

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

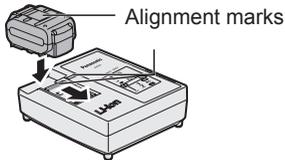
- Do not use power source from an engine generator.
- Do not cover vent holes on the charger and the battery pack.
- Unplug the charger when not in use.

NOTE:

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

Battery charger

1. Plug the charger into the AC outlet.
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 in green color will turn off.
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. Consult an authorized dealer if the charging lamp (green) does not turn off.
8. If a fully charged battery pack is inserted into the charger again, the charging lamp lights up. After several minutes, the charging lamp in green color will turn off.
9. Remove the battery pack while the battery pack release button is held up.



LAMP INDICATIONS

		Charging is completed. (Full charge.)
		Battery is approximately 80% charged.
		Now charging.
		Charger is plugged into the AC outlet. Ready to charge.
<input type="checkbox"/> (Green)	<input type="checkbox"/> (Orange)	Charging Status Lamp. Left: green Right: orange will be displayed.
		Battery pack is cool. The battery pack is being charged slowly to reduce the load on the battery.
		Battery pack is warm. Charging will begin when temperature of battery pack drops. If the temperature of the battery pack is -10° or less, the charging status lamp (orange) will also start flashing. Charging will begin when the temperature of the battery pack goes up"
		Charging is not possible. Clogged with dust or malfunction of the battery pack.

Turn off

Lit

Flashing

VI. MAINTENANCE

- Use only a dry, soft cloth for wiping the unit. Do not use a damp cloth, thinner, benzene, or other volatile solvents for cleaning.
- In the event that the inside of the tool or battery pack is exposed to water, drain and allow to dry as soon as possible. Carefully remove any dust or iron filings that collect inside the tool. If you experience any problems operating the tool, consult with a repair shop.

VII. TIGHTENING TORQUE

The power required for tightening a bolt will vary, according to bolt material and size, as well as the material being bolted. Choose the length of tightening time accordingly. Reference values are provided below. (They may vary according to tightening conditions.)

Factors Affecting Tightening Torque

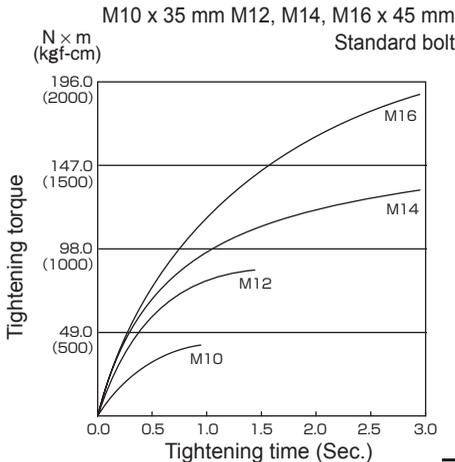
The tightening torque is affected by a wide variety of factors including the followings. After tightening, always check the torque with a torque wrench.

1) Voltage

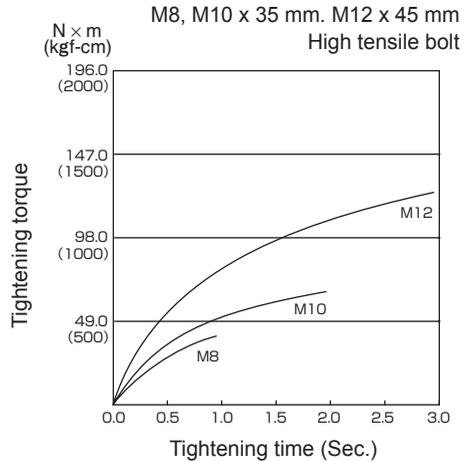
When the battery pack becomes nearly discharged, the voltage decreases and the tightening torque drops.

Bolt Tightening Conditions

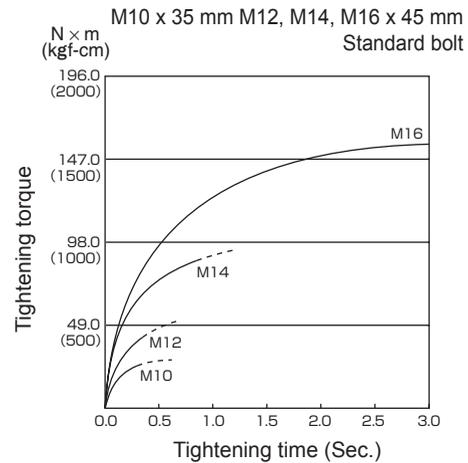
EY75A1 14.4V



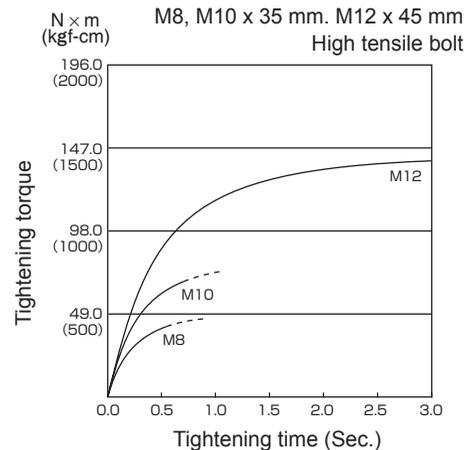
EY75A1 14.4V



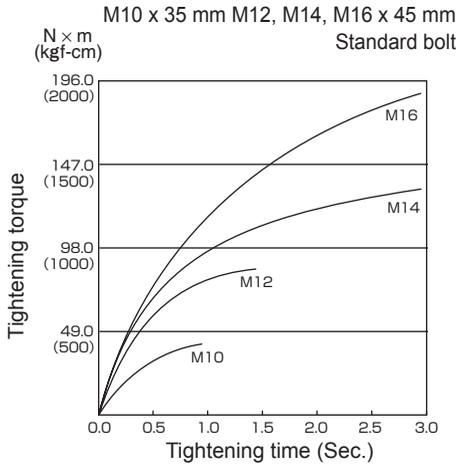
EY75A2 14.4V



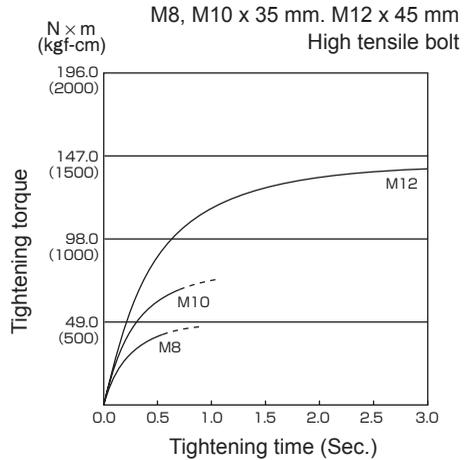
EY75A2 14.4V



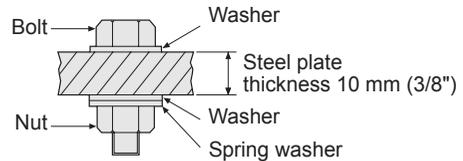
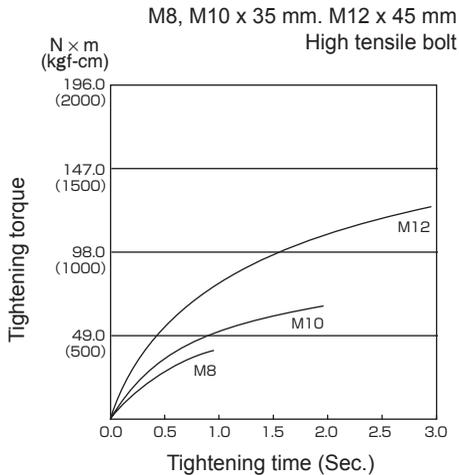
EY75A1 18V



EY75A2 18V



EY75A1 18V



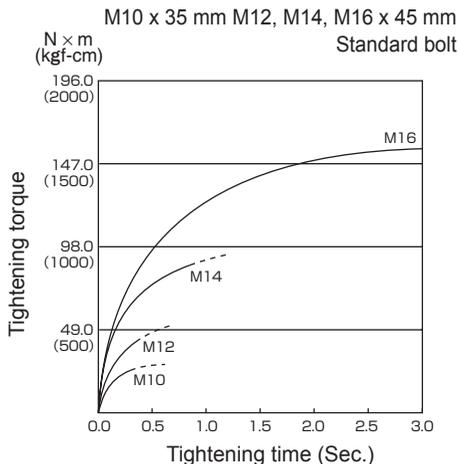
Tightening conditions

- The following bolts are used.
Standard bolts: Strength type 4.8
High tensile type 12.9

Explanation of the strength type

4.8	→ Bolt yield point (80% of tensile strength) 32 kgf/mm ² (45000 psi)
	→ Bolt tensile strength 40 kgf/mm ² (56000 psi)

EY75A2 14.4V



2) Tightening time

Longer tightening time results in increased tightening torque. Excessive tightening, however, adds no value and reduces the life of the tool.

3) Different bolt diameters

The size of the bolt diameter affects the tightening torque. Generally, as the bolt diameter increases, tightening torque rises.

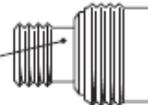
4) Tightening conditions

- Tightening torque will vary, even with the same bolt, according to grade, length, and torque coefficient (the fixed coefficient indicated by the manufacturer upon production).
- Tightening torque will vary, even with the same bolting material (e.g. steel), according to the surface finish.

- Torque is greatly reduced when the bolt and nut start turning together.
- 5) Socket play
Torque is lowered as the six-sided configuration of the socket of the wrong size is used to tighten a bolt.
 - 6) Switch (Variable speed control trigger)
Torque is lowered if the unit is used with the switch not fully depressed.
 - 7) Effect of Connecting Adaptor
The tightening torque will be lowered through the use of a universal joint or a connecting adaptor.

VIII. ACCESSORIES

Use only suitable size of bit.
Panasonic original Optional Quick change chuck (EY9HX110E).
Chuck Size: 6.35 mm (1/4") hex



IX. APPENDIX

MAXIMUM RECOMMENDED CAPACITIES

Model		EY75A1	EY75A2
Screw draiving	Wood screw	φ 3.5mm- φ 9.5mm	
	Self-drilling screw	φ 3.5mm- φ 6mm	
Bolt fastening		Standard bolt:M6-M16 High tensile bolt:M6-M12	

X. SPECIFICATIONS

MAIN UNIT

Model No.		EY75A1		EY75A2	
Motor voltage		14.4V DC	18V DC	14.4V DC	18V DC
No load speed	soft mode	0-1000min ⁻¹			
	medium mode	0-1400min ⁻¹			
	hard mode	0-2500min ⁻¹		0-2300min ⁻¹	
Maximum torque		150N·m	155N·m	200N·m	205N·m
Impact per minute	soft mode	0-2000min ⁻¹			
	medium mode	0-2800min ⁻¹			
	hard mode	0-3300min ⁻¹		0-3500min ⁻¹	
Overall length		143mm		155mm	
Weight (with battery pack:EY9L44)		1.55kg	1.6kg		-
Weight (with battery pack:EY9L45)		1.55kg	1.6kg		-
Weight (with battery pack:EY9L50)		-	-	1.65kg	1.7kg
Weight (with battery pack:EY9L51)		-	-	1.65kg	1.7kg
Noise,Vibration		See the included sheet			

BATTERY PACK

Model	EY9L41	EY9L42	EY9L44	EY9L45	EY9L50	EY9L51
Storage battery	Li-ion Battery					
Battery voltage	14.4V DC (3.6V x 4 cells)		14.4V DC (3.6V x 8 cells)		18V DC (3.6V x 10 cells)	

BATTERY CHARGER

Model	EY0L81					
Electrical rating	See the rating plate on the bottom of the charger					
Weight	0.93 kg					
Charging time	EY9L41	EY9L42	EY9L44	EY9L45	EY9L50	EY9L51
	Usable:45min Full:60min	Usable:30min Full:35min	Usable:50min Full:65min	Usable:65min Full:80min	Usable:50min Full:65min	Usable:65min Full:80min

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

NOTE : For the dealer name and address, please see the included warranty card.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, install and use in accordance with provided instructions. Use only the battery pack specified in the instructions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

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