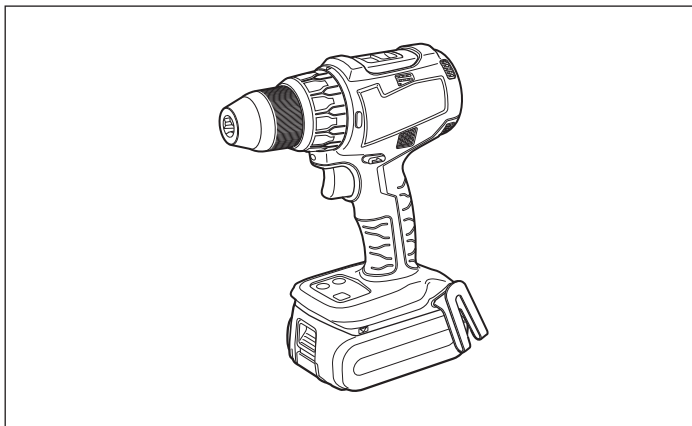


**Operating Instructions  
Bedienungsanleitung  
Instructions d'utilisation  
Istruzioni per l'uso  
Gebruiksaanwijzing  
Manual de instrucciones  
Brugsvejledning  
Driftsföreskrifter  
Bruksanvisning  
Käyttöohjeet  
Çalıştırma Talimatları  
Instrukcja obsługi  
Provozní pokyny  
Használati utasítás**

# Panasonic

Cordless Drill & Driver / Cordless Hammer Drill & Driver

**Model No: EY74A2 / EY79A2**



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.

Lire entièrement les instructions suivantes avant de faire fonctionner l'appareil et conserver ce mode d'emploi à des fins de consultation ultérieure.

Prima di usare questa unità, leggere completamente queste istruzioni e conservare il manuale per uso futuro.

Lees deze gebruiksaanwijzing aandachtig door voor u het apparaat in gebruik neemt en bewaar de gebruiksaanwijzing voor eventuele naslag.

Antes de usar este aparato por primera vez, lea todas las instrucciones de este manual y guarde el manual para poderlo consultar en el futuro.

Gennemlæs denne betjeningsvejledning før brugen og gem den til fremtidig brug.

Läs igenom hela bruksanvisningen innan verktyget tas i bruk. Spara bruksanvisningen för senare användning.

Før enheten tas i bruk, vennligst les disse alle anvisningene og oppbevar deretter bruksanvisningen for senere bruk.

Lue ohjeet huolella ennen laitteen käyttöönottoa ja säilytä tämä käyttöohje tallessa tulevaa tarvetta varten.

Bu cihazı çalıştırmadan önce lütfen bu talimatları dikkatli bir şekilde okuyun ve bu kılavuzu gelecekte kullanmak üzere saklayın.

Przed przystąpieniem do obsługi omawianego urządzenia należy przeczytać w całości niniejszą instrukcję i zachować ją do wglądu na przyszłość.

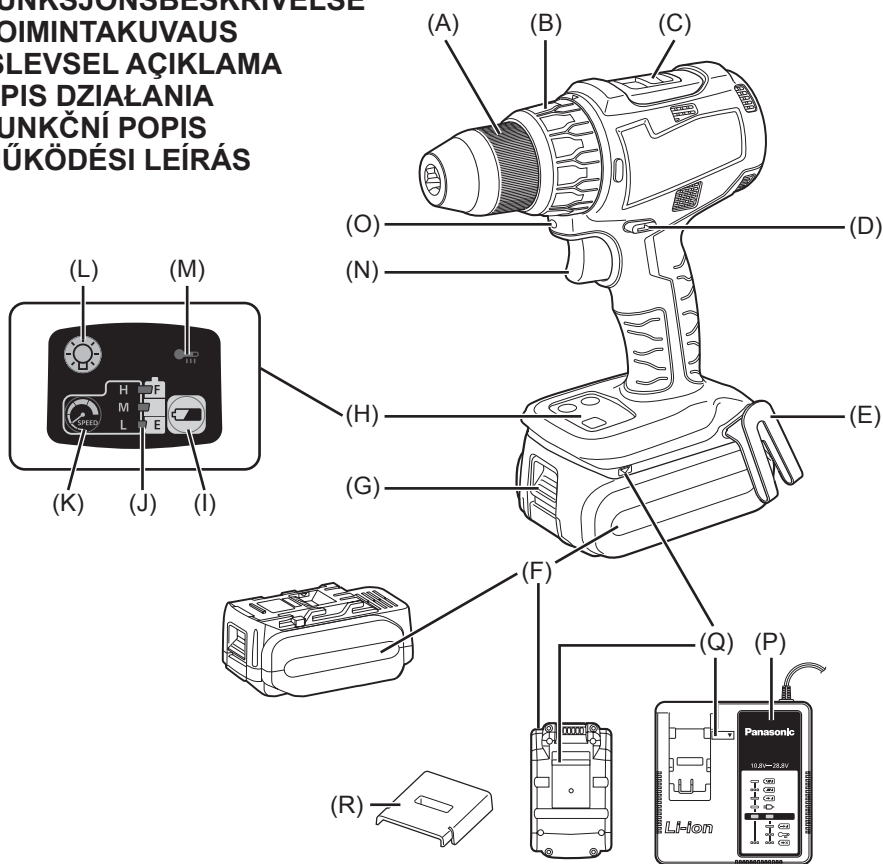
Před zahájením práce s jednotkou si přečtěte v úplnosti tyto pokyny a příručku uchovejte pro pozdější použití.

A készülék használatá előtt olvassa el ezeket az utasításokat, és őrizze meg a jelen útmutatót a későbbi használat céljából.

**Index/Index/Index/Indice/Index/Indice/Indeks/Index/Indeks/Hakemisto/Dizin/Indeks/Rejstřík/Tárgymutató**

English:	Page	9	Svenska:	Sid	80
Deutsch:	Seite	20	Norsk:	Side	90
Français:	Page	30	Suomi:	Sivu	100
Italiano:	Pagina	40	Türkçe:	Sayfa	110
Nederlands:	Bladzijde	50	Polski:	Strona	120
Español:	Página	60	Česky:	Strana	131
Dansk:	Side	70	Magyar:	Oldal	141

**FUNCTIONAL DESCRIPTION  
FUNKTIONSBECHREIBUNG  
DESCRIPTION DES FONCTIONS  
DESCRIZIONE DELLE FUNZIONI  
FUNCTIEBESCHRIJVING  
DESCRIPCIÓN FUNCIONAL  
FUNKTIONSBEKRIWELSE  
FUNKTIONSBEKRIWNING  
FUNKSJONSBEKRIWELSE  
TOIMINTAKUVAUS  
İŞLEVSEL AÇIKLAMA  
OPIS DZIAŁANIA  
FUNKČNÍ POPIS  
MŰKÖDÉSI LEÍRÁS**



(A)	<p>Keyless drill chuck  Schlüsselloses Bohrfutter  Mandrin porte-foret sans fil  Mandrino autoserrante  Boorkop zonder sleutel  Mandril sin llave  Nøglefri borepatron  Nyckellös borrchuck  Nøkkelfri drillchuck  Avaimeton poran kiinnityslaite  Anahtarsız matkap kovanı  Bezkluczykowy uchwył wiertarski  Skličidlo s beznástrojovým upínáním  Kulcs nélküli fúrótokmány</p>	(B)	<p>Clutch handle  Kupplungsring  Poignée de l'embrayage  Impugnatura frizione  Koppelingshandgreep  Mango de embrague  Koblinghåndtag  Kopplingshandtag  Koblingshåndtak  Kytkimen kahva  Kavrama tutamağı  Pierścień sprzęła  Rukojeť spojky  Tengelykapcsolókar</p>
(C)	<p>Speed selector switch  Bereichsschalter  Interrupteur de sélection de vitesse  Regolatore di velocità  Snelheidskeuzeschakelaar  Interruptor selector de velocidad  Hastighedsvælger  Hastighetsomkopplare  Hastighetskontroll  Nopeuden valintakytkin  Hız seçimi anahtarı  Przełącznik wyboru prędkości  Přepínač rychlosti  Fordulatszám-választó kapcsoló</p>	(D)	<p>Forward/Reverse lever  Rechts/Linkslauf Schalter  Levier d'inversion marche avant-marche arrière  Leva di avanzamento/inversione  Voorwaarts/achterwaarts-hendel  Palanca de avance/inversión  Greb til forlæns/baglæns retning  Riktningssomkopplare  Forover/Revers bryter  Eteenpäin/taaksepäin vipu  İleri/Geri kolu  Dźwignia prawo/lewo  Páčka Dopředu/dozadu  Írányváltó kar</p>
(E)	<p>Belt hook  Riemenhaken  Crochet de ceinture  Gancio da cintura  Riemclip  Gancho del cinturón  Bæltekrog  Bälteskrok  Beltekrok  Vyölenkki  Kayış kancası  Zaczep paska  Hák na opasek  Övkampó</p>	(F)	<p>Battery pack  Akku  Batterie autonome  Pacco batteria  Accu  Bateria  Batteripakning  Batteri  Batteripakke  Akku  Pil takımı  Akumulator  Blok baterie  Akkumulátoregység</p>

<p>(G) Battery pack release button          Akku-Entriegelungsknopf          Bouton de libération de batterie autonome          Tasto di rilascio pacco batteria          Accu-ontgrendeltoets          Botón de liberación de batería          Udløserknapp til batteripakning          Frigöringsknapp för batteri          Utløserknapp for batteripakke          Akkupaketin irrotuspainike          Pil takimi serbest bırakma düğmesi          Przycisk zwolnienia blokady akumulatora          Tlačítko uvolnění bloku baterie          Akkumulátoregység kioldógombja</p>	<p>(H) Control panel          Bedienfeld          Panneau de commande          Pannello di controllo          Bedieningspaneel          Panel de controle          Kontrolpanel          Kontrollpanel          Kontrollpanel          Säättöpaneeli          Kumanda paneli          Panel sterowaniaik wyboru prędkości          Ovládací panel          Kezelőpanel</p>
<p>(I) Battery level button          Akkustandsanzeigegeknopf          Bouton de niveau de la batterie          Tasto di livello della batteria          Knop accuniveau          Botón de nivel de la batería          Batteriniveaunapp          Batterinivåknapp          Batterinivåknapp          Akun lataustaso          Pil seviyesi düğmesi          Przycisk poziomu naładowania akumulatora          Tlačítko stavu baterie          Akkumulátor töltésjelzőjének gombja</p>	<p>(J) Battery level indicator/Speed setting indicator          Akkustandsanzeige/Drehzahleinstellungsanzeige          Indicateur de niveau de la batterie/Indicateur de réglage de la vitesse          Indicatore di livello della batteria/Indicatore di impostazione della velocità          Indicator accuniveau/Indicator snelheidsinstelling          Indicador de nivel de la batería/Indicador de ajuste de la velocidad          Batteriniveauindikator/Hastighedsindikator          Batterinivåindikator/Varvtalsindikator          Batterinivåindikator/Indikator for hastighetsinnstilling          Akun lataustason ilmaisn/Nopeusasetuksen ilmaisn          Pil seviyesi göstergesi/Hız ayar göstergesi          Wskaźnik poziomu naładowania akumulatora/Wskaźnik ustawienia prędkości          Indikátor stavu baterie/Indikátor nastavení rychlosti          Akkumulátor töltésjelzője/Fordulatszám-beállítás kijelzője</p>

(K)	(L)
(M)	(N)
(O)	(P)

(Q)	Alignment marks Ausrichtmarkierungen Marques d'alignement Marcatura allineamento Uitlijntekens Marcas de alineación Flugtemærker Anpassningsmärken Opprettingsmerke Sovitusmerkit Hizalama işaretleri Znaczniki Rovnací značky Pozíciójelölések	(R)	Pack cover Akkuabdeckung Couvercle de la batterie autonome Coperchio pacco Accudeksel Cubierta de batería Pakningsdæksel Batteriskydd Pakkedeksel Akkukotelon kansi Pil takımı kapağı Oslona akumulatora Kryt bloku Az akkumulátoregység fedele
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NOTE: Not all battery packs display the alignment mark (Q).

HINWEIS: Nicht auf allen Akkus ist eine Ausrichtungsmarkierung (Q) zu sehen.

REMARQUE: Certaines batteries autonomes ne présentent pas de marque d'alignement (Q).

NOTA: Non tutti i pacchi batteria riportano la marcatura di allineamento (Q).

OPMERKING: Op niet alle accu's wordt het uitlijningsteken (Q) weergegeven.

NOTA: No todas las baterías muestran la marca de alineamiento (Q).

BEMÆRK: Ikke alle batteripakninger er udstyret med flugtemærke (Q).

OBSERVERA: Alla batterier har inte Anpassningsmärken (Q).

MERK: Ikke alle batteripakker viser justeringsmerket (Q).

HUOMAUTUS: Kaikissa akuissa ei ole kohdistusmerkintää (Q).

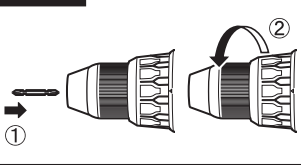
NOT: Tüm pil takımlarında hizalama işareti (Q) bulunmaz.

UWAGA: Nie na wszystkich akumulatorach występują znaczniki (Q).

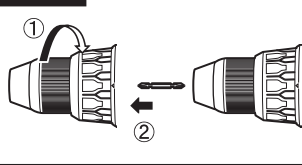
POZNÁMKA: Rovnací značka (Q) není vyznačena na všech blocích baterie.

MEGJEGYZÉS: Nem minden akkumulátoregységen látható pozíciójelölés (Q).

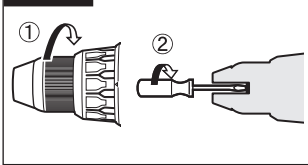
[Fig. 1]



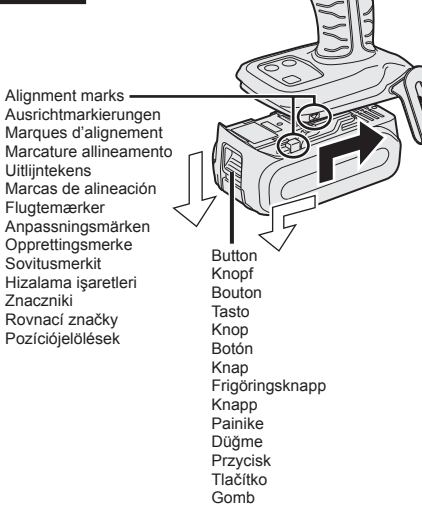
[Fig. 2]



[Fig. 3]



[Fig. 4]



Alignment marks  
 Ausrichtmarkierungen  
 Marques d'alignement  
 Marcature allineamento  
 Uitlijntekens  
 Marcas de alineación  
 Flugtemærker  
 Anpassungsmärken  
 Opprettingsmerke  
 Sovitusmerkit  
 Hizalama işaretleri  
 Znaczniki  
 Rovnači značky  
 Pozíciójelölések

Button  
 Knopf  
 Bouton  
 Tasto  
 Knop  
 Botón  
 Knap  
 Frigöringsknapp  
 Knapp  
 Painike  
 Düğme  
 Przycisk  
 Tlačítko  
 Gomb

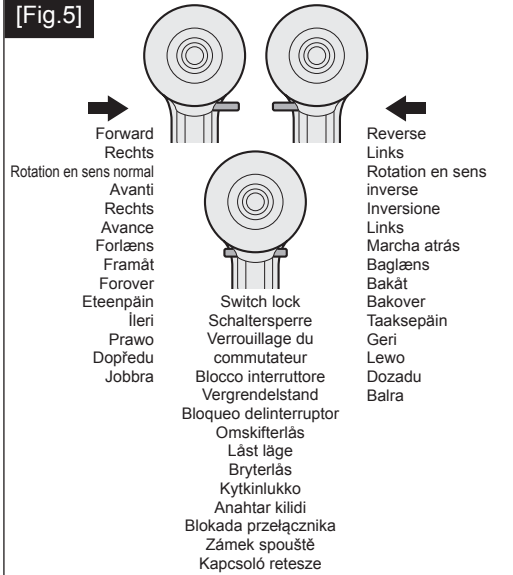


Attaching  
 Anbringen  
 Connexion  
 Collegamento  
 Bevestigen  
 Acoplamiento  
 Pásætning  
 Montering  
 Monterig  
 Kiinnittäminen  
 Takma  
 Mocowanie  
 Nasazení  
 Csatlakoztatás



Removing  
 Entfernen  
 Retrait  
 Rimozione  
 Verwijderen  
 Desacoplamiento  
 Aftagning  
 Lossdragning  
 Demontering  
 Irrottaminen  
 Çıkarma  
 Wyciąganie  
 Sejmutí  
 Eltávolítás

[Fig. 5]

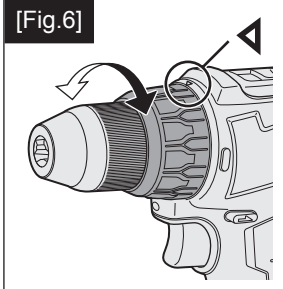


Forward  
 Rechts  
 Rotation en sens normal  
 Rechts  
 Avance  
 Forlæns  
 Framåt  
 Forover  
 Eteenpäin  
 İleri  
 Prawo  
 Dopředu  
 Jobbra

Reverse  
 Links  
 Rotation en sens inverse  
 Inversione  
 Links  
 Marcha atrás  
 Baglæns  
 Bakåt  
 Bakover  
 Taaksepäin  
 Geri  
 Lewo  
 Dozadu  
 Balra

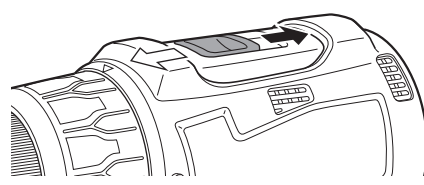
Switch lock  
 Schaltersperre  
 Verrouillage du commutateur  
 Blocco interruttore  
 Vergrendelstand  
 Bloqueo delinterruptor  
 Omskifterlås  
 Låst läge  
 Bryterlås  
 Kytकिनlukko  
 Anahtar kilidi  
 Blokada przełącznika  
 Zámek spouště  
 Kapcsoló retesze

[Fig. 6]



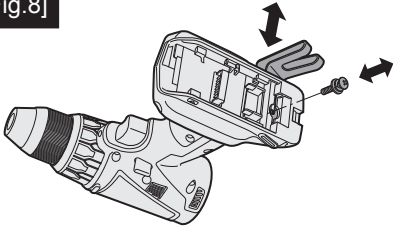
[Fig. 7]

←  
 LOW  
 NIEDRIG  
 BAS  
 BASSO  
 LAAG  
 BAJA  
 LAV  
 LÁGA VARVTAL  
 LAV  
 PIENI  
 DÜŞÜK  
 LOW  
 NÍZKÝ  
 ALACSONY

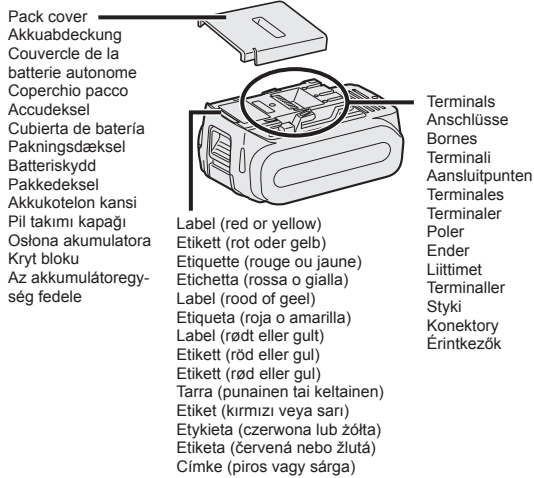


→  
 HIGH  
 HOCH  
 HAUT  
 ALTO  
 HOOG  
 ALTA  
 HØJ  
 HÖGA VARVTAL  
 HØY  
 SUURI  
 YÜKSEK  
 HIGH  
 VYSOKÝ  
 MAGAS

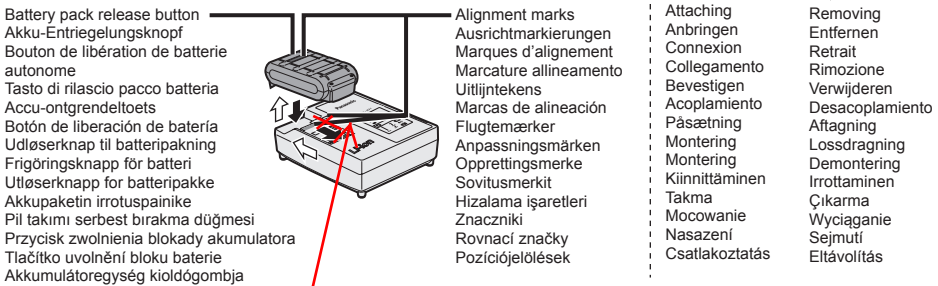
[Fig.8]



[Fig.9]



[Fig.10]



この線不要



**Original instructions: English**  
**Translation of the original instructions:**  
**Other languages**

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

## I. INTENDED USE

**These tools can be used to tighten screws in clutch mode and to drill holes in wood and metal in drill mode. Additionally, model EY79A2 can be used to drill holes in soft concrete and similar materials in hammer mode.**

## II. ADDITIONAL SAFETY RULES

- 1) 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.
- 2) 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.
- 3) During charging, the charger may become slightly warm. This is normal. Do NOT charge the battery for a long period.
- 4) Do not strain the tool by holding the speed control trigger halfway (speed control mode) so that the motor stops.
- 5) To prevent injury during use, hold the tool steady at all times and avoid waving it around.
- 6) Make certain that there are no hidden gas or water pipes, or electrical wires in the area where you will be working. Coming into contact with hidden pipes or wires could result in electric shock, or water or gas leaks.
- 7) Make sure to hold the object you are working on steady.
- 8) Check for damaged parts.
  - Check thoroughly for damage to the protective cover and other parts before operating.
  - Check to make sure the tool and all of its functions are working properly.
  - Check the adjustment of all movable parts, and check all fixed parts to make sure they are fitted properly and free of damage. Check all parts of the tool for abnormal function.
- 9) When attempting to repair the protective cover or other parts, please follow the instructions in the user manual. In cases where there are no instructions in the manual, please take it back to the store to have it repaired.
- 10) If the tool gets exceptionally hot during use, please take it in for service and repair.
- 11) To avoid potential injury, keep face and hands away from the drill bit and any shavings.
- 12) Do not wear gloves when operating the tool, as they may get caught by the drill, leading to injury.
- 13) Battery terminals, screw shavings, and tool accessories such as drill bits will be very hot immediately after operation. Do not touch them as there is a risk of burning yourself.

Symbol	Meaning
V	Volts
— — —	Direct current
$n_0$	No load speed
... min <sup>-1</sup>	Revolutions or reciprocations per minutes
Ah	Electrical capacity of battery pack
	Rotation only
	Read the operating instructions before use.
	For indoor use only.

**⚠ 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 recycled or counterfeit battery pack.
- Do not dispose of the battery pack in a fire, or expose it to excessive heat.
- 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.
- 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.
- To prevent leakage, overheating, smoke generation, fire, and rupturing from occurring, follow these instructions when handling our rechargeable power tools (tool main unit battery pack/ charger).
  - Do not allow material cuttings or dust to fall onto the battery pack.
  - When storing, remove any material cuttings and dust from the battery pack, and place the battery pack separately from metal objects (screws, nails, etc.) when storing in the tool case.
- Do not handle the rechargeable power tools in the following way. (There is a hazard of smoke generation, fire, and rupturing)
  - Use or leave in places exposed to rain or moisture
  - Use submerging in water

**III. 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).

This tool is equipped with a keyless drill chuck.

**1. Attachment**

Insert the bit and turn the lock collar clockwise (looking from the front) to tighten firmly until it stops clicking. [Fig.1]

**2. Removal**

Turn the lock collar counterclockwise (looking from the front), then remove the bit. [Fig.2]

**NOTE:**

If excessive play occurs in the chuck, secure the drill in place and open the chuck jaws by turning the lock collar and tighten the screw (left-handed screw) with a screwdriver by turning it counterclockwise (viewed from the front). [Fig.3]

**Attaching or Removing Battery Pack****NOTE:**

When the battery pack is removed from the main unit, the control panel lamp may light up briefly. This is not a malfunction.

**1. To attach the battery pack: [Fig.4 →]**

Align the highlighted marker points and attach battery pack.  
Slide the battery pack until it locks into position.

**2. To remove the battery pack: [Fig.4 ⇐]**

Push the button and slide the battery pack forward.

**IV. OPERATION****⚠ WARNING!**

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

## [Main Unit]

### CAUTION

- When storing or carrying the tool, set the Forward/Reverse lever to the center position (switch lock).

### NOTE:

Exercise caution to ensure no objects come into contact with the tool's trigger switch.

If an object comes into contact with the tool's trigger switch, even while the Forward/Reverse lever is in the center position (locked), a small amount of electric current may continue flowing, which may cause an excessive discharge from the battery pack and subsequent battery pack failure.

## Switch and Forward/Reverse Lever Operation [Fig.5]

1. Push the lever for forward or reverse rotation. Check the direction of the lever before using.
2. Depress the trigger switch slightly to start the tool slowly.
3. Speed will increase by pressing the trigger. The tool stops working immediately by releasing the trigger.
4. When done with an application, lock the switch by centering the lever.

### NOTE:

When the brake operates, a braking sound may be heard. This is normal.

### CAUTION:


When operating the tool by pulling the trigger, there may be a momentary lag before rotation starts. This does not signal a malfunction.

\* This lag occurs as the tool's circuitry starts up when the trigger is pulled for the first time after installing a battery pack or after the tool has not been used for at least 1 minute (or at least 5 minutes when the LED is on). Rotation will start without any lag during second and subsequent operations.

### ⚠ CAUTION:

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

## Clutch Torque Setting

Adjust the torque to one of the 18 clutch settings or “” position.

### ⚠ CAUTION:

- Set the clutch setting at this mark [Fig.6] before actual operation.
- If the clutch handle cannot be set at “drilling” or “hammering” mode after driving with clutch function, set the clutch handle at position 1 and operate the clutch for a second.

## Speed Selection

Choose a low or high speed to suit the use. [Fig.7]

The more the variable speed control trigger is pulled, the higher the speed becomes.

### ⚠ CAUTION:

- Check the speed selector switch before use.
- Use at low speed when high torque is needed during operation. (Using at high speed when high torque is required may cause a motor breakdown.)
- To prevent excessive temperature increase of the tool surface, do not operate the tool continuously using two or more battery packs. The tool needs cool-off time before switching to another pack.
- Do not close up vent holes on the sides of the body during operation. Otherwise, the machine function is adversely affected to cause a failure.
- Do NOT strain the tool (motor). This may cause damage to the unit.
- Use the tool in such a way as to prevent the air from the body vent holes from blowing directly onto your skin. Otherwise, you may get burned.

## Speed Control Function

Setting the maximum speed.

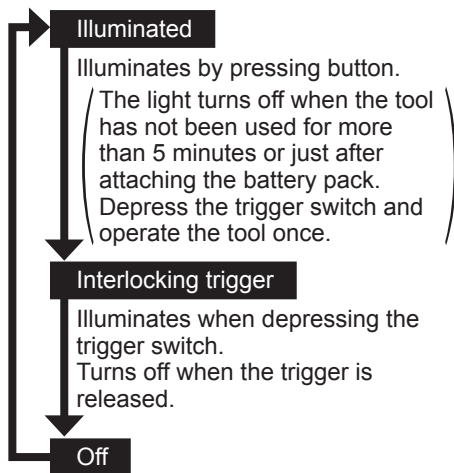
1. Press the speed setting button and select a speed.  
The speed changes to H, M, L and OFF (the light is off) in this order.
2. Select OFF to release it.

Display	Low mode	High mode
H	Approx. 300 min <sup>-1</sup> (rpm)	Approx. 1000 min <sup>-1</sup> (rpm)
M	Approx. 200 min <sup>-1</sup> (rpm)	Approx. 670 min <sup>-1</sup> (rpm)
L	Approx. 150 min <sup>-1</sup> (rpm)	Approx. 500 min <sup>-1</sup> (rpm)
OFF	Ordinary speed 18 V Approx. 470 min <sup>-1</sup> (rpm) 14.4 V Approx. 400 min <sup>-1</sup> (rpm)	Ordinary speed 18 V Approx. 1580 min <sup>-1</sup> (rpm) 14.4 V Approx. 1350 min <sup>-1</sup> (rpm)

- Default setting: OFF
- The speed is the same at both 18 V and 14.4 V in this setting.
- If a high mode is chosen, the speed is set as the table above.

## LED Light

Press the light button and set illumination condition.



The light illuminates with very low current, and it does not adversely affect the performance 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.

### 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.

## Battery Level Indicator





Press the battery level button.

Battery level indicator shows battery level in three levels while pressing the button.

### NOTE:

The indicator will not show the battery level even the button is pressed in the following cases.

- The main unit is powered off.
- Just after attaching the battery pack
- The main unit or battery level button is not operated for approx. five minutes. Press the battery level button again after depressing the trigger switch.
- If the battery temperature is high, stop the operation and wait until the battery temperature is low.

Indicator	Battery status	
	3 lamps illuminated	Charged enough
	2 lamps illuminated	Approx. 60% remaining
	One lamp illuminated	Battery level is low. Need to be charged soon
	3 lamps flashing	Empty. Need to be charged immediately

Battery level indication is just guide. The indication may change due to the condition of battery or ambient temperature.


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.

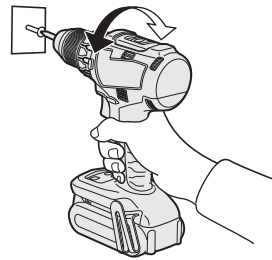
## Bit-locking Function

EN

1. With the trigger switch not engaged and a screwdriver bit locked in place, the tool can be used as a manual screwdriver (up to 22.6 N•m, 230 kgf•cm, 199 in•lbs).

There will be a little play in the chuck, but this is not a malfunction.

2. This feature is handy for tightening screws that require more torque than the maximum torque of the driver (position  on the clutch), for confirming the tightness of a screw or to loosen an extremely tight screw.



## Changing the Belt Hook Location Side [Fig.8]

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.

**⚠ WARNING!**

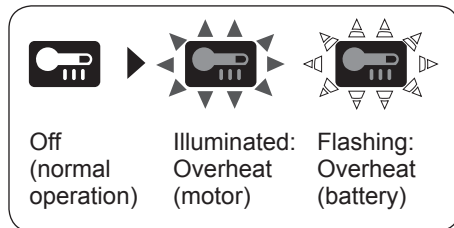
- Be sure to attach the belt hook securely to the main unit with the screw firmly fastened. When the belt hook is not firmly attached to the main unit, the hook may disconnect and the main unit may fall. This may result in an accident or injury.
- Periodically check screw for tightness. If found to be 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 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.

- 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.
- If the tool is operated continuously under high-load conditions or if it is used in hot-temperature conditions (such as during summer), the overheating protection feature may activate frequently.
- If the tool is used in cold-temperature conditions (such as during winter) or if it is frequently stopped during use, the overheating protection feature may not activate.  
The performance of the EY9L42 deteriorates significantly at and below 10°C due to work conditions and other factors.

**(2) Voltage Reduction Warning**

One lamp flashing

If the tool is subject to a sudden load during use that causes the motor to lock up, the overdischarge prevention sensor may be triggered, and the battery low warning lamp may flash. The lamp will stop flashing once you address the cause of the motor's locking up and cycle the trigger.

**(3) Overload Warning****Warning Function****(1) Overheat Warning**

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

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.

If the tool is subject to a sudden load during use that causes the motor to lock up, the overcurrent prevention sensor may be triggered, the voltage reduction warning lamp may illuminate and flash. (Bottom of it illuminates and middle and top flashes.)

The lamp will stop illuminating and flashing once you address the cause of the motor's locking up and cycle the trigger.

## [Battery Pack]

### For Appropriate Use of Battery Pack [Fig.9]

- The rechargeable batteries have a limited life.
- For optimum battery life, store the Li-ion battery pack following use without charging it.
- When operating the battery pack, make sure the work place is well ventilated.

### 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 unit before use.
- If the battery pack is not connected 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 main unit will not rotate normally. Connect the battery pack into the unit of the tool until the red or yellow label disappears.

## [Battery Charger]

### Charging

#### CAUTION:

- 1) 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.

- 2) 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.

- 3) Use the charger at temperatures between  $0^{\circ}\text{C}$  and  $40^{\circ}\text{C}$ , and charge the battery at a temperature similar to that of the battery itself. (There should be no more than a  $15^{\circ}\text{C}$  difference between the temperatures of the battery and the charging location.)
- 4) 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.
- 5) Cool down the charger when charging more than two battery packs consecutively.
- 6) Do not insert your fingers into contact hole, when holding charger or any other occasions.
- 7) 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.

#### How to charge

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. Connect the battery pack firmly into the charger.

- 1 Line up the alignment marks and place the battery onto the dock on the charger.

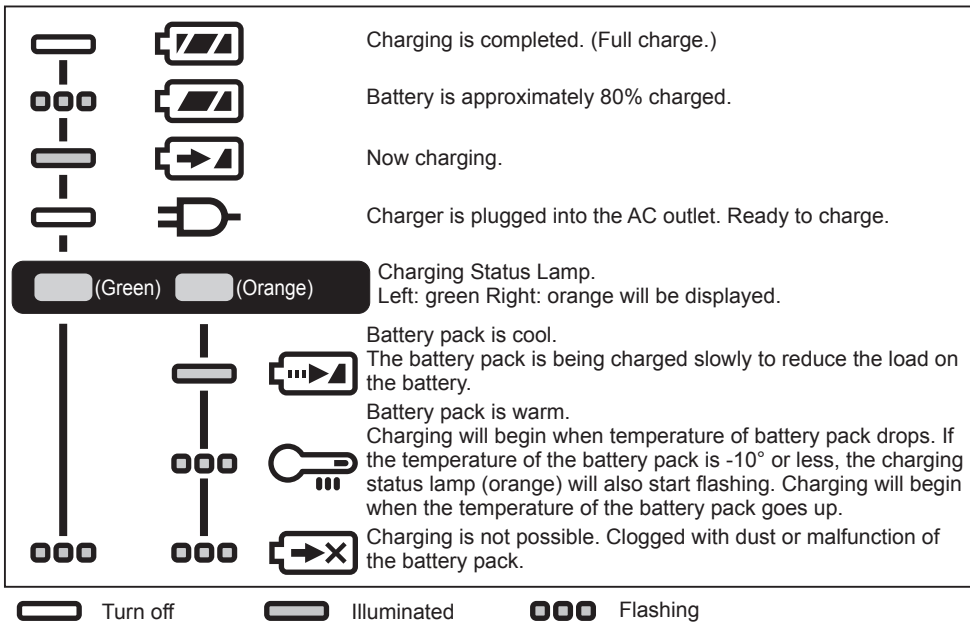
#### NOTE:

Not all battery packs display the alignment mark (Q) (on page 2).

- 2 Slide forward in the direction of the arrow. [Fig.10 

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 hot (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. [Fig.10 ⇨]

## LAMP INDICATIONS



## 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.



## 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 2012/19/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.

## V. MAINTENANCE

- Use only a dry, soft cloth for wiping the unit.  
Do not use a damp cloth, thinner, benzine, 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.

## VI. ACCESSORIES

Use only bits suitable for size of drill's chuck.

## VII. APPENDIX

### MAXIMUM RECOMMENDED CAPACITIES

Model No.		EY74A2		EY79A2	
Motor voltage		14.4 V DC	18 V DC	14.4 V DC	18 V DC
Screw driving	Machine screw	M5		M $\circ$	
	Wood screw	$\Phi$ 6.8 mm	$\Phi$ 8 mm	$\Phi$ $\circ$ mm	$\Phi$ $\circ$ mm
Drilling	Self-drilling screw	$\Phi$ 6 mm		$\Phi$ $\circ$ mm	
	For Wood	$\Phi$ 35 mm	$\Phi$ 38 mm	$\Phi$ $\circ$ mm	$\Phi$ $\circ$ mm
	For Metal	$\Phi$ 13 mm		$\Phi$ $\circ$ mm	
	For Masonry	—		$\Phi$ $\circ$ mm	$\Phi$ $\circ$ mm

## WARRANTY SUPPLEMENT

- The breakdown and damage caused by usage consistent for a long time (e.g.: factory work on the assembly line, etc.) is out of warranty.
- 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.

## VIII. SPECIFICATIONS

**NOTE:** Weight indication

Greater than or equal to 1 kg: indicated by 0.05 kg.

Less than 1 kg: indicated by 0.01 kg.

### MAIN UNIT

Model No.		EY74A2		EY79A2	
Motor voltage		14.4 V DC	18 V DC	14.4 V DC	18 V DC
No load speed	Low	30 – 400 min <sup>-1</sup> (rpm)	30 – 470 min <sup>-1</sup> (rpm)	● – ● min <sup>-1</sup> (rpm)	● – ● min <sup>-1</sup> (rpm)
	High	70 – 1350 min <sup>-1</sup> (rpm)	70 – 1580 min <sup>-1</sup> (rpm)	● – ● min <sup>-1</sup> (rpm)	● – ● min <sup>-1</sup> (rpm)
Chuck capacity		Φ 1.5 mm – Φ 13 mm		Φ ● mm – Φ ● mm	
Clutch torque		Approx. 0.5 N•m – 4.4 N•m		Approx. ● N•m – ● N•m	
Overall length		178 mm		● mm	
Weight	With battery pack: EY9L45	1.90 kg	—	● kg	—
	With battery pack: EY9L47	1.70 kg	—	● kg	—
	With battery pack: EY9L51	—	2.05 kg	—	● kg
	With battery pack: EY9L52	—	1.80 kg	—	● kg
	With battery pack: EY9L53	—	1.80 kg	—	● kg
	With battery pack: EY9L54	—	2.05 kg	—	● kg
Noise, Vibration		See the included sheet			



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