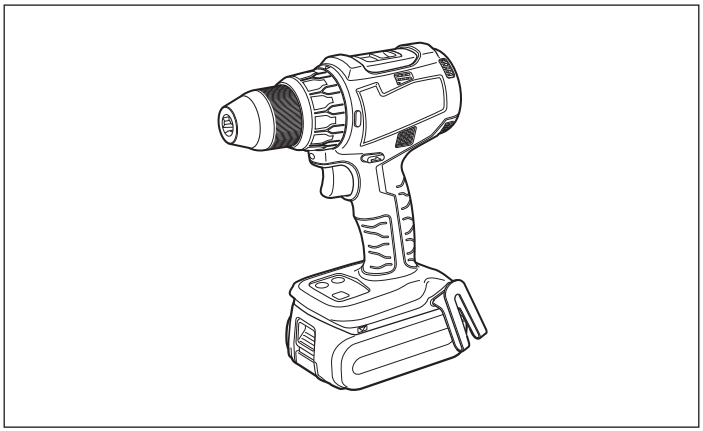
Operating Instructions
Bedienungsanleitung
Instructions d'utilisation
Istruzioni per l'uso
Gebruiksaanwijzing
Manual de instrucciones
Brugsvejledning
Driftsföreskrifter
Bruksanvisning
Käyttöohjeet
Çalıştırma Talimatları
Instrukcja obsługi
Provozní pokyny
Használati utasítás

Panasonic

Cordless Drill & Driver / Cordless Hammer Drill & Driver

Model No: EY74A2 / EY79A2

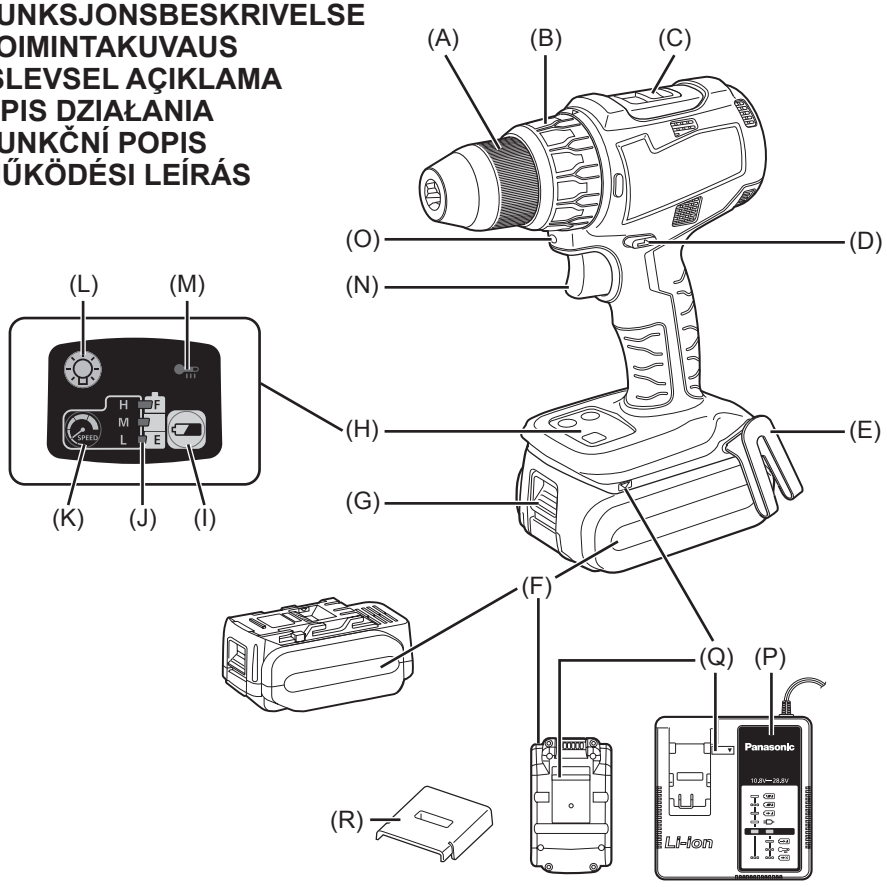


Before operating this unit, please read these instructions completely and save this manual for future use.
Vor Inbetriebnahme des Gerätes die Betriebsanleitung bitte gründlich durchlesen und diese Broschüre zum späteren Nachschlagen sorgfältig aufbewahren.
Lire entièrement les instructions suivantes 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 usi futuri.
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 használata 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
FUNKTIONSBESCHREIBUNG
DESCRIPTION DES FONCTIONS
DESCRIZIONE DELLE FUNZIONI
FUNCTIEBESCHRIJVING
DESCRIPCIÓN FUNCIONAL
FUNKTIONSBESKRIVELSE
FUNKTIONSBESKRIVNING
FUNKSJONSBESKRIVELSE
TOIMINTAKUVAUS
İŞLEVSEL AÇIKLAMA
OPIS DZIAŁANIA
FUNKČNÍ POPIS
MŰKÖDÉSI LEÍRÁS



EY74A2_EU.indb 2 2015/07/17 9:24:28

(A)	Keyless drill chuck Schlüsselfreies 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 uchwyt wiertarski Sklíčidlo s beznástrojovým upínáním Kulcs nélküli fúrótokmány	(B)	Clutch handle Kupplungsring Poignée de l'embrayage Impugnatura frizione Koppelingshandgreep Mango de embrague Koblinghåndtag Kopplingshandtag Koblingshåndtak Kytkimen kahva Kavrama tutamağı Pierścień sprzęgła Rukoje spojky Tengelykapcsolókar
(C)	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	(D)	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 Riktningsomkopplare Forover/Revers bryter Eteenpäin/taaksepäin vipu İleri/Geri kolu Dźwignia prawo/lewo Páčka Dopředu/dozadu Irányváltó kar
(E)	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	(F)	Battery pack Akku Batterie autonome Pacco batteria Accu Batería Batteripakning Batteri Batteripakke Akku Pil takımı Akumulator Blok baterie Akkumulátoregység

EY74A2_EU.indb 3 2015/07/17 9:24:28

(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 Udløserknap til batteripakning Frigöringsknapp för batteri Utløserknapp for batteripakke Akkupaketin irrotuspainike Pil takımı serbest bırakma düğmesi Przycisk zwolnienia blokady akumulatora Tlačítko uvolnění bloku baterie Akkumulátoregység kioldógombja	(H)	Control panel Bedienfeld Panneau de commande Pannello di controllo Bedieningspaneel Panel de controle Kontrolpanel Kontrollpanel Kontrollpanel Säätöpaneeli Kumanda paneli Panel sterowaniaik wyboru prędkości Ovládací panel Kezelőpanel
(I)	Battery level button Akkustandsanzeigeknopf Bouton de niveau de la batterie Tasto di livello della batteria Knop accuniveau Botón de nivel de la batería Batteriniveauknap Batterinivåknapp Batterinivåknapp Akun lataustaso Pil seviyesi düğmesi Przycisk poziomu naładowania akumulatora Tlačítko stavu baterie Akkumulátor töltésjelzőjének gombja	(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 ilmaisin/Nopeusasetuksen ilmaisin Pil seviyesi göstergesi/Hız ayar göstergesi Wskaźnik poziomu naładowania akumulatora/Wskaźnik ustawienia prędkości Indikátor stavu baterie/Indikátor nastavení rychlosti Akkumulátor töltésjelzője/Fordulatszám-beállítás kijelzője

EY74A2_EU.indb 4 2015/07/17 9:24:28

(K)	Speed setting button Drehzahleinstellungsknopf Bouton de réglage de la vitesse Tasto di impostazione della velocità Snelheidsinstellingsknop Botón de ajuste de la velocidad Hastighedsvælgerknap Varvtalsregleringsknapp Knapp for hastighetsinnstilling Nopeusasetuspainike Hız ayar düğmesi Przycisk ustawiania prędkości Tlačítko nastavení rychlosti Fordulatszám-beállító gomb	(L)	Light button Leuchtentaste Bouton d'éclairage Tasto della luce Lichtknop Botón de la luz Lysknap Lampknapp Lysknapp Valopainike Işık düğmesi Przycisk oświetlenia Tlačítko osvětlení Világításkapcsoló gomb
(M)	Overheat warning lamp (motor/battery) Überhitzungs-Warnlampe (Motor/Akku) Témoin d'avertissement de surchauffe (moteur/batterie) Spia avvertenza surriscaldamento (motore/batteria) Oververhitting-waarschuwingslampje (motor/accu) Luz de advertencia de sobrecalentamiento (motor/batería) Advarselslamp til overophedning (motor/batteri) Varningslampa för överhettning (motor/batteri) Varsellampe for overoppheting (motor/batteri) Ylikuumenemisen varoituslamppu (moottori/akku) Aşırı ısınma uyarı lambası (motor/batarya) Lampka ostrzegawcza przegrzania (silnik/akumulator) Kontrolka přehřátí (motor/baterie) Túlmelegedésre figyelmeztető lámpa (motor/akkumulátor)	(N)	Variable speed control trigger Betriebsschalter Gâchette de commande de vitesse Grilletto di controllo velocità variable Startschakelaar variabele snelheid Disparador del control de velocided variable Kontroludløser for variabel hastighed Steglös varvtalsreglerare Hovedbryter, trinnløs Nopeudensäätökytkin Değişken hızlı kumanda tetikleyici Język spustowy z płynną regulacją prędkości Spoušť proměnlivé rychlosti Fordulatszám-szabályozós indítókapcsoló
(O)	LED light LED-Leuchte Lumière DEL Luce LED LED-lampje Luz indicadora LED-lys LED-ljus LED-lys LED-valo LED ışığı Lampka LED LED osvětlení LED-lámpa	(P)	Battery charger Ladegerät Chargeur de batterie Caricabatterie Acculader Cargador de batería Batterioplader Batteriladdare Batterilader Akkulaturi Pil şarj cihazı Ładowarka Nabíječka baterie Akkumulátortöltő

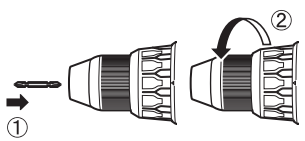
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(Q)	Alignment marks Ausrichtmarkierungen Marques d'alignement Marcature allineamento Uitlijntekens Marcas de alineación Flugtemærker Anpassningsmärken Opprettingsmerke Sovitusmerkit Hizalama işaretleri Znaczniki Rovnací značky Pozíciójelölések	(R)	Pack cover Akkuabdeckung Couvercle de la batterie autonome Coperchio pacco Accudeksel Cubierta de batería Pakningsdæksel Batteriskydd Pakkedeksel Akkukotelon kansi Pil takımı kapağı Osłona akumulatora Kryt bloku Az akkumulátoregység fedele

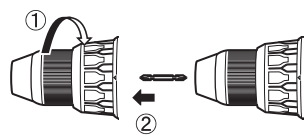
NOTE: Not all battery packs display the alignment mark (Q).
HINWEIS: Nicht auf allen Akkus ist eine Ausrichtungsmarkierung (Q) zu sehen.
REMARQUE: Certaines batteries autonomes ne présentent pas de marque d'alignement (Q).
NOTA: Non tutti i pacchi batteria riportano la marcatura di allineamento (Q).
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).

EY74A2_EU.indb 6 2015/07/17 9:24:28

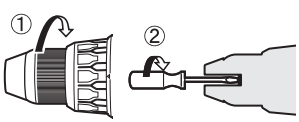
[Fig.1]



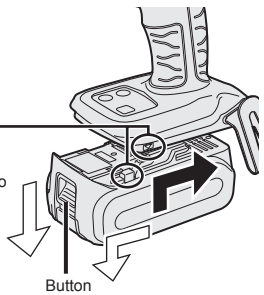
[Fig.2]



[Fig.3]



[Fig.4]



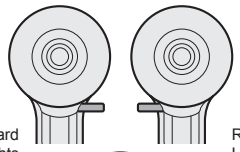
Alignment marks
Ausrichtmarkierungen
Marques d'alignement
Marcature allineamento
Uitlijntekens
Marcas de alineación
Flugtemærker
Anpassningsmärken
Opprettingsmerke
Sovitusmerkit
Hizalama işaretleri
Znaczniki
Rovnací značky
Pozíciójelölések

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

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

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

[Fig.5]

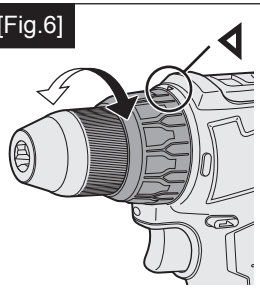


Forward
Rechts
Rotation en sens normal
Avanti
Rechts
Avance
Forlæns
Framåt
Forover
Eteenpäin
İleri
Prawo
Dopředu
Jobbra

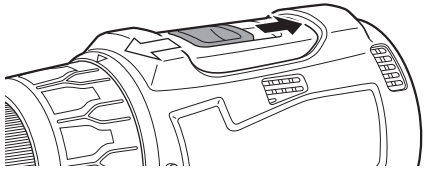
Switch lock
Schaltersperre
Verrouillage du commutateur
Blocco interruttore
Vergrendelstand
Bloqueo delinterruptor
Omskifterlås
Låst läge
Bryterlås
Kytkinlukko
Anahtar kilidi
Blokada przełącznika
Zámek spouště
Kapcsoló retesze

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

[Fig.6]



[Fig.7]

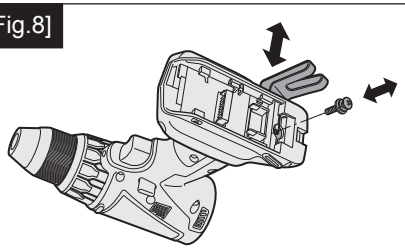


LOW
NIEDRIG
BAS
BASSO
LAAG
BAJA
LAV
LÅGA VARVTAL
LAV
PIENI
DÜŞÜK
LOW
NÍZKÝ
ALACSONY

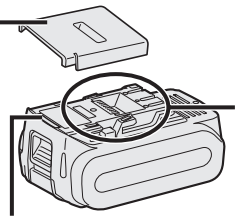
HIGH
HOCH
HAUT
ALTO
HOOG
ALTA
HØJ
HÖGA VARVTAL
HØY
SUURI
YÜKSEK
HIGH
VYSOKÝ
MAGAS

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[Fig.8]



[Fig.9]

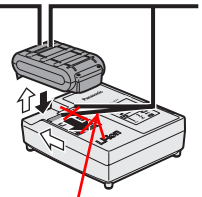


Pack cover
Akkuabdeckung
Couvercle de la batterie autonome
Coperchio pacco
Accudeksel
Cubierta de batería
Pakningsdæksel
Batteriskydd
Pakkedeksel
Akkukotelon kansi
Pil takımı kapağı
Osłona akumulatora
Kryt bloku
Az akkumulátoregység fedele

Terminals
Anschlüsse
Bornes
Terminali
Aansluitpunten
Terminales
Terminaler
Poler
Ender
Liittimet
Terminaller
Styki
Konektory
Érintkezők

Label (red or yellow)
Etikett (rot oder gelb)
Etiquette (rouge ou jaune)
Etichetta (rossa o gialla)
Label (rood of geel)
Etiqueta (roja o amarilla)
Label (rødt eller gult)
Etikett (röd eller gul)
Etikett (rød eller gul)
Tarra (punainen tai keltainen)
Etiket (kırmızı veya sarı)
Etykieta (czerwona lub żółta)
Etiketa (červená nebo žlutá)
Címke (piros vagy sárga)

[Fig.10]



Battery pack release button
Akku-Entriegelungsknopf
Bouton de libération de batterie autonome
Tasto di rilascio pacco batteria
Accu-ontgrendeltoets
Botón de liberación de batería
Udløserknap til batteripakning
Frigöringsknapp för batteri
Utløserknapp for batteripakke
Akkupaketin irrotuspainike
Pil takımı serbest bırakma düğmesi
Przycisk zwolnienia blokady akumulatora
Tlačítko uvolnění bloku baterie
Akkumulátoregység kioldógombja

Alignment marks
Ausrichtmarkierungen
Marques d'alignement
Marcature allineamento
Uitlijntekens
Marcas de alineación
Flugtemærker
Anpassningsmärken
Opprettingsmerke
Sovitusmerkit
Hizalama işaretleri
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Lossdragning
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Çıkarma
Wyciąganie
Sejmutí
Eltávolítás

この線不要

EY74A2_EU.indb 8 2015/07/17 9:24:28

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^{-1}	Revolutions or reciprocations per minutes
Ah	Electrical capacity of battery pack
	Rotation only
	Read the operating instructions before use.
	For indoor use only.

EY74A2_EU.indb 9 2015/07/17 9:24:29

EN

⚠ 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.

EY74A2_EU.indb 10 2015/07/17 9:24:29

[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.

EY74A2_EU.indb 11 2015/07/17 9:24:29

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Speed Control Function

Setting the maximum speed.

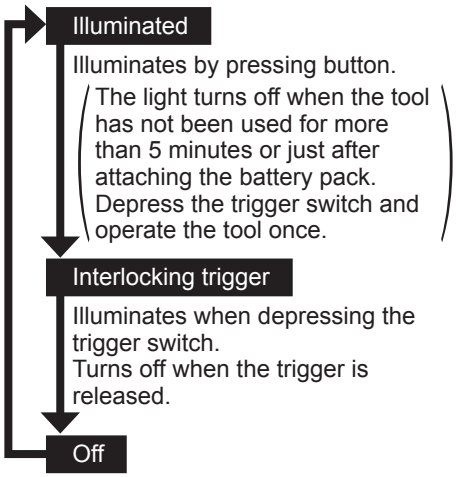
1. Press the speed setting button and select a speed.
   The speed changes to H, M, L and OFF (the light is off) in this order.
2. Select OFF to release it.

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

EY74A2_EU.indb 12 2015/07/17 9:24:29

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

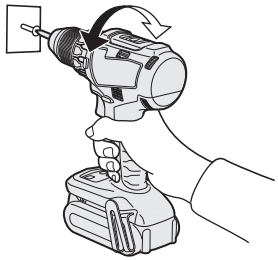
Battery level indication is just guide. The indication may change due to the condition of battery or ambient temperature.

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

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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.

EY74A2_EU.indb 13 2015/07/17 9:24:29

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⚠ 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.

Warning Function

(1) Overheat Warning



Off (normal operation)	Illuminated: Overheat (motor)	Flashing: Overheat (battery)

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 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



EY74A2_EU.indb 14 2015/07/17 9:24:29

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°C (14°F), charging will automatically stop to prevent degradation of the battery.
2) 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.
3) Use the charger at temperatures between 0°C and 40°C, and charge the battery at a temperature similar to that of the battery itself. (There should be no more than a 15°C difference between the temperatures of the battery and the charging location.)
4) 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.
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.

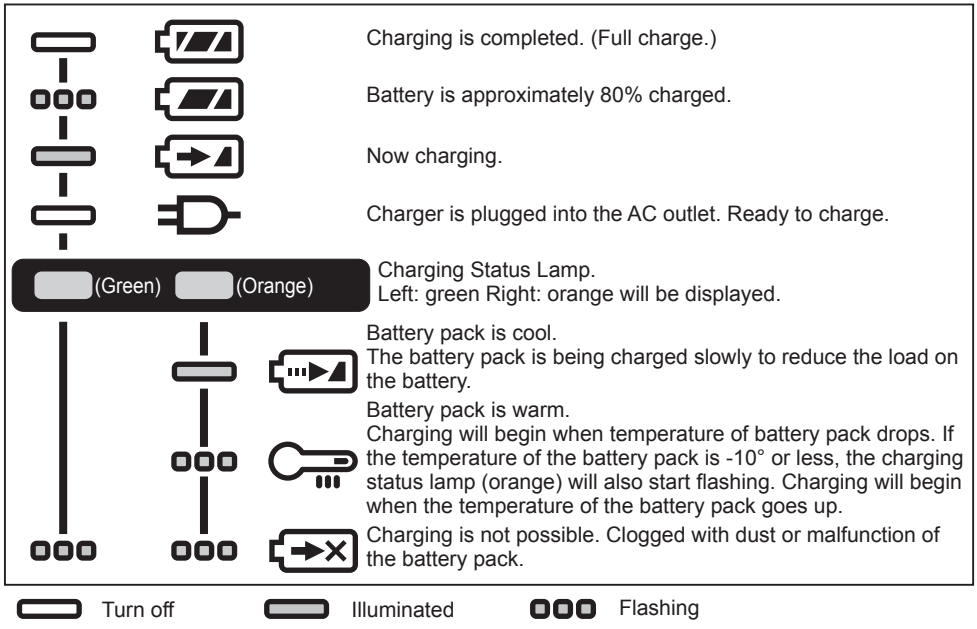
NOTE:
Not all battery packs display the alignment mark (Q) (on page 2).

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

EY74A2_EU.indb 15 2015/07/17 9:24:29

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.

EY74A2_EU.indb 16 2015/07/17 9:24:29

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○	
	Wood screw	Φ 6.8 mm	Φ 8 mm	Φ ○ mm	Φ ◯ mm
Drilling	Self-drilling screw	Φ 6 mm		Φ ○ mm	
	For Wood	Φ 35 mm	Φ 38 mm	Φ ○ mm	Φ ○ mm
	For Metal	Φ 13 mm		Φ ○ mm	
	For Masonry	—		Φ ○ mm	Φ ○ mm

EY74A2_EU.indb 17 2015/07/17 9:24:30

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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^{-1} (rpm)	30 – 470 min^{-1} (rpm)	● – ● min^{-1} (rpm)	● – ● min^{-1} (rpm)
	High	70 – 1350 min^{-1} (rpm)	70 – 1580 min^{-1} (rpm)	● – ● min^{-1} (rpm)	● – ● min^{-1} (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			

EY74A2_EU.indb 18 2015/07/17 9:24:30

EY74A2_EU.indb 151 2015/07/17 9:24:47

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EY74A2_EU.indb 152 2015/07/17 9:24:47