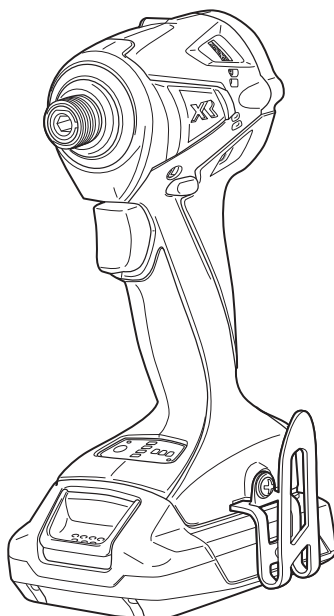
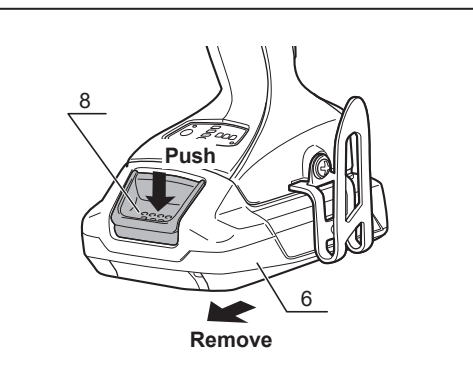
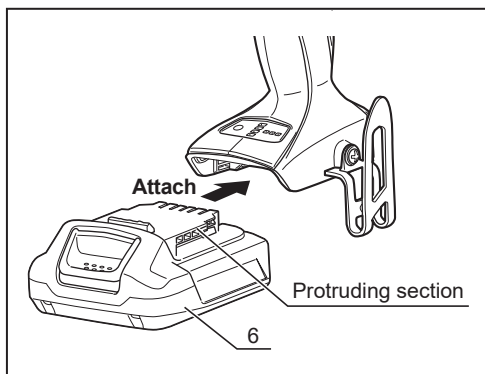
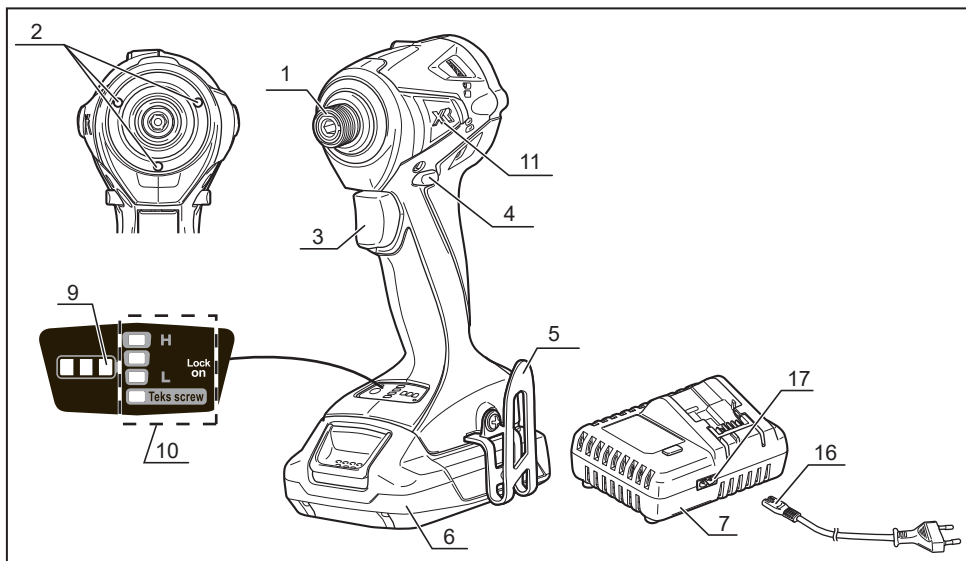


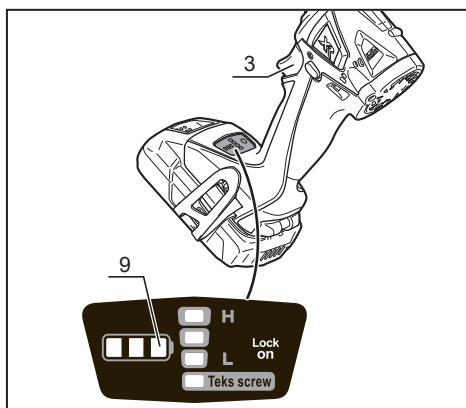
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 OWNER'S OPERATING MANUAL

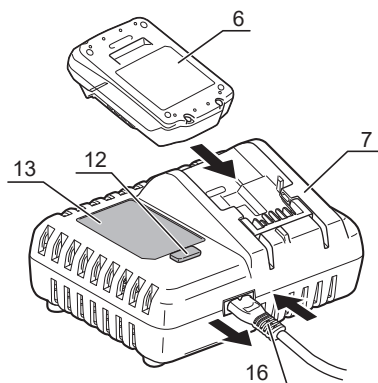




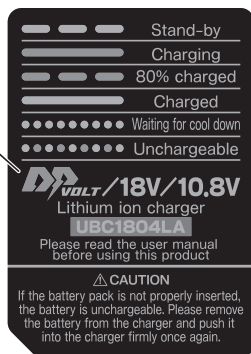
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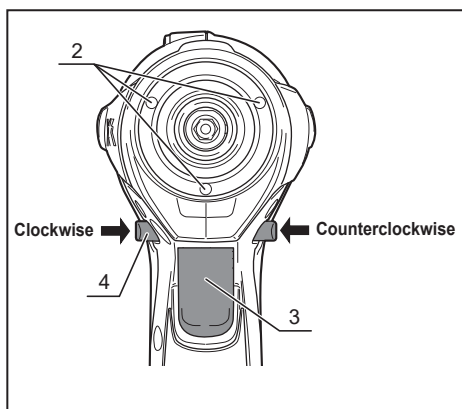
Lamp display

Table 1

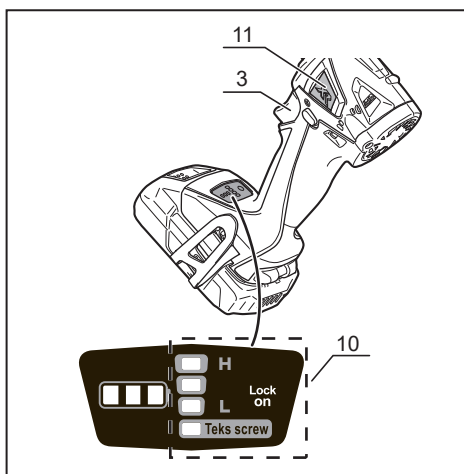
Display mode	Lamp color	Flashing speed	Meaning
Stand-by	Green	Flashing	The charger is plugged into the outlet.
Charging	Red	Solid	Charging
80% charged	Red	Flashing	80% fully charged
Charged	Green	Solid	Charging completed
Waiting for cool down	Green	Fast flashing	The battery pack is too hot for charging. • Charging will start automatically when the temperature is back to normal.
Unchargeable	Green, Red	Fast flashing (Alternately)	The battery cannot be charged. • Battery is damaged or at the end of its service life.

- Battery packs that have been purchased for the first time or have been stored for a long time may take longer to charge.
- The lamp might indicate inappropriately if the battery is not inserted properly.

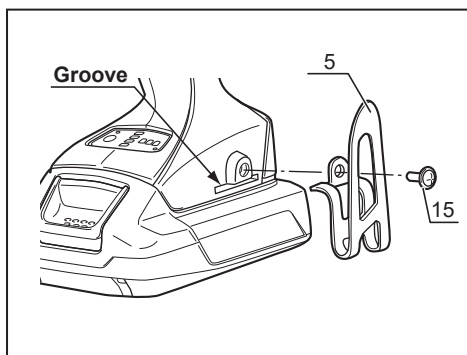
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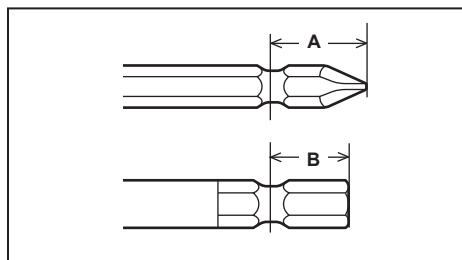
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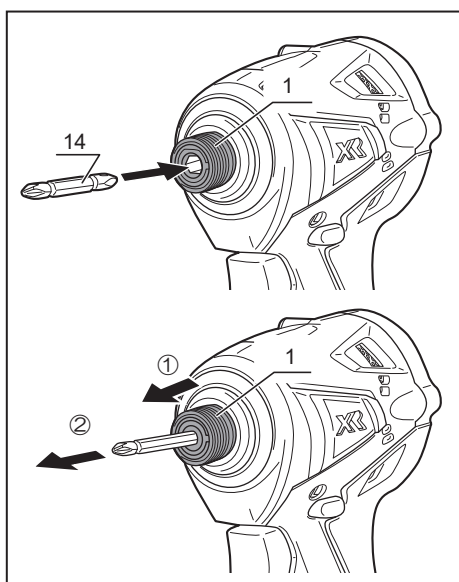
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6



8



7

THANK YOU FOR BUYING OUR PRODUCT.

To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

General power tool safety warnings

⚠ WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Battery tool use and care

- a) **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.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **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.



- d) **Under abusive conditions, liquid may be ejected from the 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.
 - e) **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury
 - f) **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
 - g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
- 6) Service**
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
 - b) **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

CORDLESS IMPACT DRIVER DRILL SAFETY PRECAUTIONS

1. Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
2. Be aware that since this tool does not have to be plugged into an electrical outlet, it is always in operating condition.
3. First, charge the battery.
4. Be sure the battery holder is securely snapped in place.
5. When not in use, lock the trigger.
6. When operating at high places, be aware of things below you.
7. Make sure that the bit is securely mounted. An incorrectly mounted bit is extremely dangerous since it can fly off or break during operating.
8. Do not wear cloth gloves or a necktie since they could become caught in a rotating bit.
9. Hold the tool securely.

INSTRUCTIONS FOR SAFE HANDLING

1. Make sure that the tool is only connected to the voltage marked on the name plate.
2. Never use the tool if its cover or any bolts are missing. If the cover or bolts have been removed, replace them prior to use. Maintain all parts in good working order.
3. Never touch the blade, drill bit, grinding wheel or other moving parts during use.
4. Never start a tool when its rotating component is in contact with the workpiece.
5. Never lay a tool down before its moving parts have come to a complete stop.
6. Check that the work piece is properly supported.
7. Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first disconnect the tool from the mains supply (use nonmetallic objects) and avoid damaging internal parts.

8. **ACCESSORIES** : The use of accessories or attachments other than those recommended in these instructions might present a hazard.
9. **REPLACEMENT PARTS** : When servicing use only identical replacement parts.

DISPOSAL OF THE EXHAUSTED BATTERY

Li-ion batteries must be recycled.

Take the battery to the shop from which it was purchased as soon as battery life becomes too short for practical use.

Do not discard the exhausted battery.

DESCRIPTION

1. Bit holder
2. LED
3. Trigger
4. Forward / Reverse switch
5. Belt hook
6. Battery pack
7. Charger
8. Push button
9. Battery level indicator
10. Mode display lamps
11. Mode switch button
12. Charger lamp
13. Label
14. Driver bit
15. Screw
16. Connector
17. Connector Junction

SPECIFICATIONS

Bit shank size	1/4" Hex.	
Capacity	Screw	M4 - M8
	Bolt	M5 - M14
	High strength bolt	M5 - M12
Max.torque	165N·m	
Voltage	DC18V (Li-ion)	
Battery type	B-1850LA (5,000 mAh) B-1815LA (1,500 mAh) UBC1804LA	
Charger type	Approx. 54min (5,000 mAh) Approx. 21min (1,500 mAh)	
No load speed	(High)	0-2,900 min ⁻¹
	(Middle)	0-2,000 min ⁻¹
	(Low)	0- 900 min ⁻¹
	(Tek's screw)	0-2,900 min ⁻¹
	(Lock-on)	0-2,500 min ⁻¹
Impacts per minute	(High)	0-4,400 min ⁻¹
	(Middle)	0-3,300 min ⁻¹
	(Low)	0-1,500 min ⁻¹
	(Tek's screw)	0-1,800 min ⁻¹
Dimension	99.4x79x237mm(5,000 mAh)	
(Length x width x Height)	99.4x79x217mm(1,500 mAh)	
Weight	1.4 kg (5,000 mAh)	
	1.1 kg (1,500 mAh)	

STANDARD ACCESSORIES

Carrying case, Belt hook,
Charger, Battery pack (5,000 mAh x 1 / 1,500 mAh x 1)

APPLICATIONS

(Use only for the purposes listed below.)

1. Fastening / removing screws and bolts.

REMOVING AND ATTACHING THE BATTERY PACK (Fig. 1)

(Attachment)

Align the protruding section of the battery pack (6) with the groove on the body, and slide the battery pack all the way into the groove in the direction of the arrow to attach securely.

(Removal)

Push and hold the push button (8) while pulling the battery pack (6) straight out in the direction of the arrow.

CHECKING THE BATTERY LEVEL (Fig. 2)

Pull the trigger (3) and the battery level indicator (9) will light up or flash for approximately 30 seconds. The battery level can be determined by the indicator state. Indicator display details are as follows.

Display	Battery condition
■■■ 3 lit	Battery fully charged
■■□ 2 lit	Battery half charged
■□□ 1 lit	Charge soon
☼-□□ 1 flashing	Charge immediately

CHARGING

The battery pack (6) must be charged before you use the tool.

The batteries are affected by temperature, so do not charge them outside or in a location exposed to direct sunlight. Doing so will shorten the charging time and result in less than the full charge.

HOW TO CHARGE (Fig. 3)

The charger (7) may become a little warm while charging, but this does not affect its performance.

The charging condition is indicated by the flashing lamps on the charger r (UBC1804LA). (Fig.3, Table 1)

1. Securely insert the connector (16) of the power cord into the connector junction (17) of the charger.
2. Insert the electric plug of the charger into the outlet.
3. Firmly insert the battery pack (6) into the charger.
4. When the charging is complete, remove the battery pack from the charger (7).
5. Remove the electric plug of the charger from the outlet.
6. Remove the connector (16) from the connector junction (17) on the charger.

Note1: Lithium ion batteries can be charged when the battery packs are between 0°C and 40°C, but the charging time will be longer if the battery pack temperature is lower than 10°C.

Note2: The charging time will be longer when the battery level is low.

HOW TO EXTEND THE LIFE OF THE BATTERY PACK

Do not recharge a fully charged battery pack.

When the battery pack is not going to be used for an extended period of time (6 months or longer), store it with the battery fully charged.

Before storing the battery pack, remove it from the charger.

TRIGGER (Fig. 4)

This tool is started and stopped by pulling and releasing the trigger (3).

The rotating speed is variable by controlling the trigger-squeezing force.

To change the direction of rotation, stop the tool by releasing the trigger and push the forward / reverse switch (4) to the opposite side.

When the forward / reverse switch is set to the "R" mark, the direction of rotation will be clockwise when viewed from the handle end of the tool.

When the reversing switch is set to the "L" mark, the direction of rotation will be counter-clockwise.

The trigger can be locked by positioning the forward / reverse switch in the center.

Lock the trigger whenever the tool is not in use.

LED LIGHT (Fig. 4)

LED (2) is lit by pulling the trigger.

The LED continues to illuminate for 30 sec. after releasing the trigger.

OPERATION MODE SWITCH FUNCTION (Fig. 5)

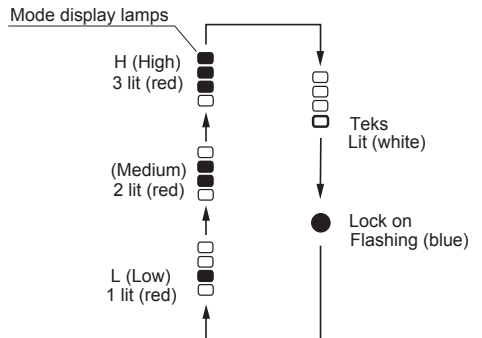
Push the mode switch button (11) to switch operation modes.

The impact strength (fastening torque, RPMs, impacts per minute) can be switched between 4 levels based on screw fastening applications.

The Lock on mode is convenient for continuous operation such as mixing.

(Switching method)

1. Pull the trigger (3).
2. The mode display lamps (10) will light up for approximately 30 seconds. (The mode display lamp for the previously set mode will light up.)
3. Push the mode switch button while the mode display lamps are lit up to switch modes as shown in the figure below.



Recommended applications**H (High): Lit red**

Suited to work fastening thick screws and long screws efficiently

(Medium): Lit red

Suited to work fastening thin screws and short screws as well as steel frame assembly using M12 bolts

L (Low): Lit red

Suited to finishing and other work requiring precise positioning, and work fastening screws in plaster board and fastening small screws

Teks: Lit white

Suited to work fastening Teks screws

*Rotates at high speed until striking starts, then automatically reduces rotation speed when striking starts for drilling pilot holes in steel sheets and other applications, making it less likely to bend screws or strip screw heads.

Lock on: Flashing blue

Suited to continuous operation work such as using commercial attachments to drill pilot holes, stir using mixers, remove caulking, etc.

*Striking can occur during Lock on mode as well depending on load.

LOCK ON MODE OPERATION METHOD (Fig. 5)

1. Push the mode switch button (11) to select "Lock on".

*The mode switch button and mode display lamps (10) will "flash" blue.

2. Pull the trigger (3) until the tool reaches your desired rotation speed, then push the mode switch button again.

The rotation speed will be locked and the tool will continue operating at that speed even if you release your finger from the trigger.

*When the rotation speed is locked, the mode switch button and mode display lamps will "light up" blue.

*The motor will stop after 5 minutes of continuous operation. To continue operation, repeat from step 2 above.

3. Pulling the trigger again will release the rotation speed lock and stop operation, returning to the state in step 1 above.

*Striking can occur during Lock on mode as well depending on load.

If continuous operation is carried out at loads where striking occurs, it can cause motor burn out, so do not use continuous operation under such loads.

BELT HOOK (Fig.6)

The belt hook (5) can be attached to either the left- or right-hand side.

Follow the steps outlined below to remove or attach the belt hook.

(Removing)

Loosen the screw (15), and remove the belt hook.

(Attaching)

Insert the belt hook in the groove on the body, and tighten the screw.

MOUNTING AND REMOVING THE BIT (Fig.7)**When mounting the bit:**

Insert the bit (14) into the bit holder (1) until it clicks firmly in place.

When removing the bit:

1. Push forward the bit holder.
2. Remove the bit from the bit holder.

NOTE : The size of the bit which can be used on this unit is either A=16 mm or B=13 mm.(Fig.8)

CAUTION : Use the bit that matches the screw or bolt size. Do not use a damaged bit.

FASTENING TORQUE

The proper fastening torque differs due to type of material. Therefore, do not force the impact drive.

The fastening torque will change based on the fastening condition.

Fastening torque will be reduced as the battery becomes weaker.

NOTE : To avoid any reduction of the fastening torque, keep the battery properly charged.

FACTORS AFFECTING THE FASTENING TORQUE**1. Voltage**

When the battery pack is on the verge of discharging, the voltage and fastening torque drop.

2. Fastening time

The fastening torque increases with the fastening time, but does not increase after a certain amount of time.

The suitable fastening torque for the screws/bolts varies with their material, size, and grade. If screws/bolts are fastened with a high fastening torque, they may be stretched or broken. Fasten with a fastening time and fastening torque suitable for the screws/bolts.

3. When the material into which objects are fastened is different

When fastening a screw/bolt into a soft material such as wood, the fastening torque is much lower than when doing so into a hard material such as steel.

4. When the screw/bolt diameter is different

When the diameter of the screw/bolt is different, so is the fastening torque. Generally, when the diameter is large, so is the fastening torque. The fastening torque also varies with the torque coefficient, grade, and length of the screw/bolt.

5. Trigger position

When the trigger is not pulled fully back (when not at full power), the fastening torque is lower.

6. Driver bit

The fastening torque is lower if a driver bit which is not suitable for the screw/bolt is used.

STORING THE TOOL

Store the tool in a dry place that does not get too hot. Avoid places which can be reached by children or from where the tool may fall.

Pay attention to the following when storing the battery pack for an extended period of time.

- a. Store lithium ion batteries when they are charged.
- b. Recharge the stored battery pack every 6 months.
- c. Avoid high temperatures. Do not store for an extended period of time in places that are 45°C or hotter.



- d. Do not store in places that are -20°C or colder.
- e. Do not store in places that are near to heat sources or places that are subject to direct sunlight.
- f. Do not store in places which have large changes in temperature and may have condensation.
- g. Do not store in humid places.
- h. Do not allow it come in contact with water.
- i. Store in a dry place.
- j. Do not subject it to large vibrations or allow it to fall when moving it.
- k. In order to avoid short circuits, do not allow it come in contact with metal objects.
- l. Before storing the battery pack, remove it from the charger.

MAINTENANCE

After use, check the tool to make sure that it is in top condition. It is recommended that you take this tool to an Authorized Service Center for a thorough cleaning and lubrication at least once a year.

DO NOT MAKE ANY ADJUSTMENTS WHILE THE MOTOR IS IN MOTION.

ALWAYS REMOVE THE BATTERY FROM THE TOOL BEFORE CHANGING REMOVABLE OR EXPENDABLE PARTS (BIT...ETC.), LUBRICATING OR WORKING ON THE UNIT.

WARNING!

To ensure safety and reliability, all repairs should be performed by an **AUTHORIZED SERVICE CENTER** or other **QUALIFIED SERVICE ORGANIZATION**.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.



WARNING To reduce the risk of injury, user must read instruction manual "

KYOCERA Industrial Tools Corporation
2-2-54 Matsuhama-cho, Fukuyama-shi,
Hiroshima-ken, 720-0802 Japan

NOTE

NOTE
