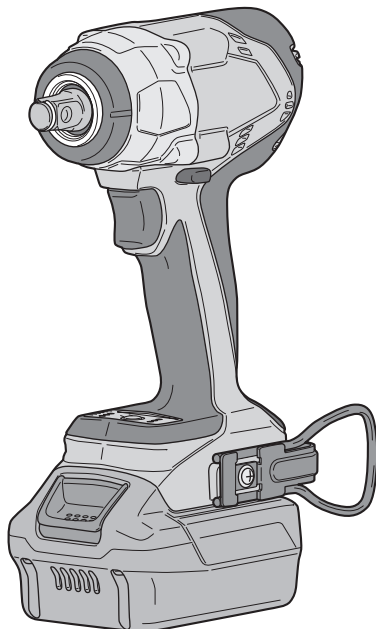
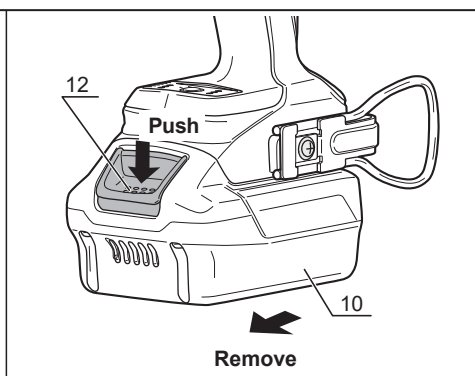
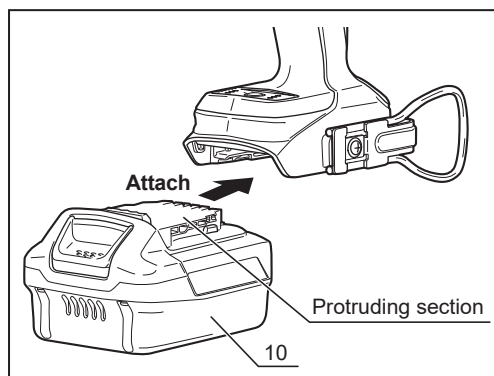
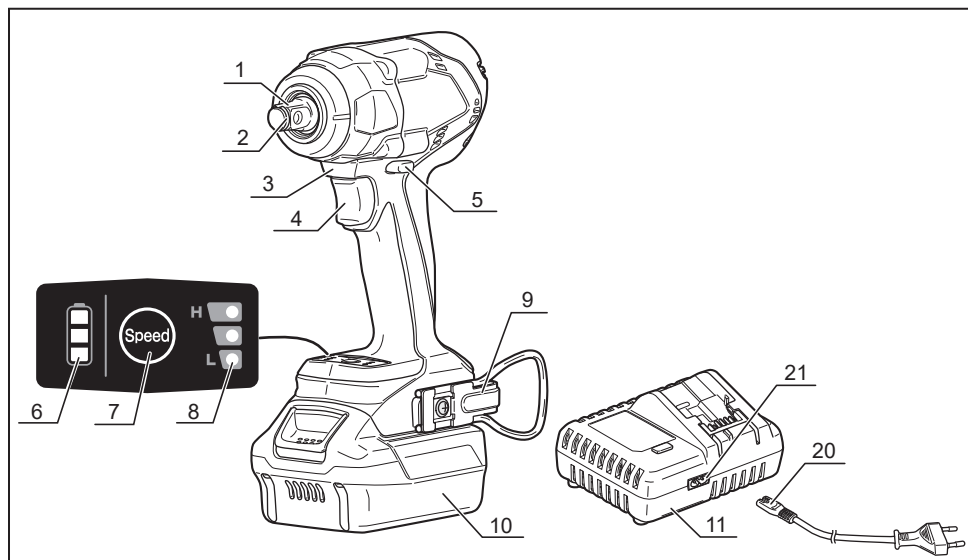


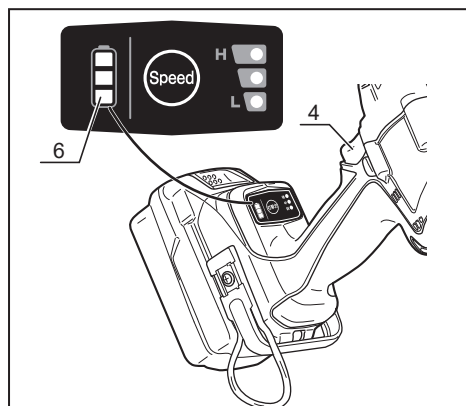
DIW183

Ⓒ OWNER'S OPERATING MANUAL

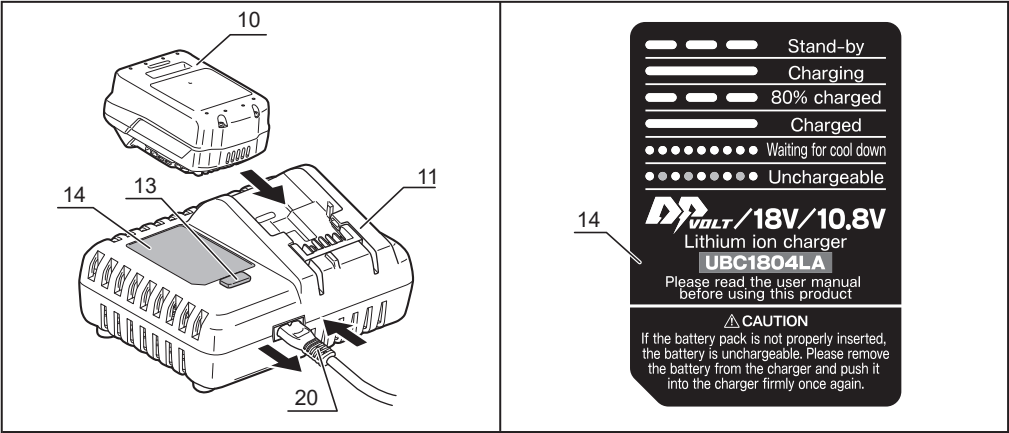




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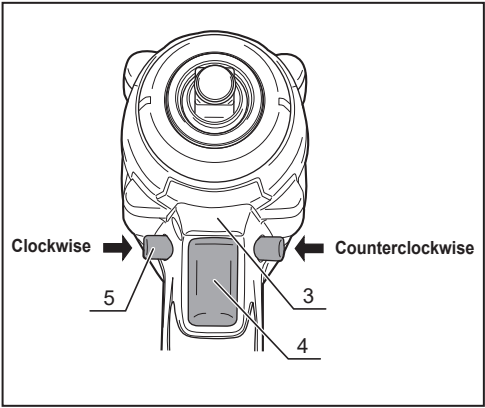
Lamp display

Table 1

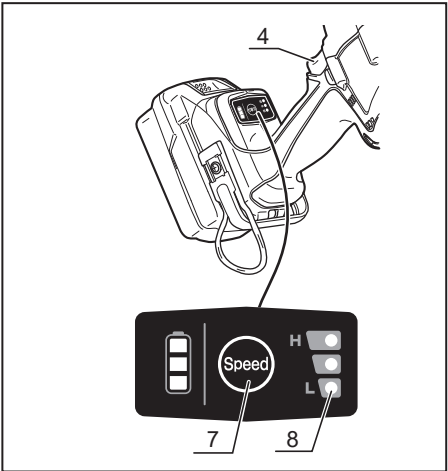
Display mode	Lamp color	Flashing speed	Meaning
Stand-by	Green	Flashing	The charger is plugged into the outlet.
Charging	Red	Solid	Charging
80% charged	Red	Flashing	80% fully charged
Charged	Green	Solid	Charging completed
Waiting for cool down	Green	Fast flashing	The battery pack is too hot for charging. • 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.

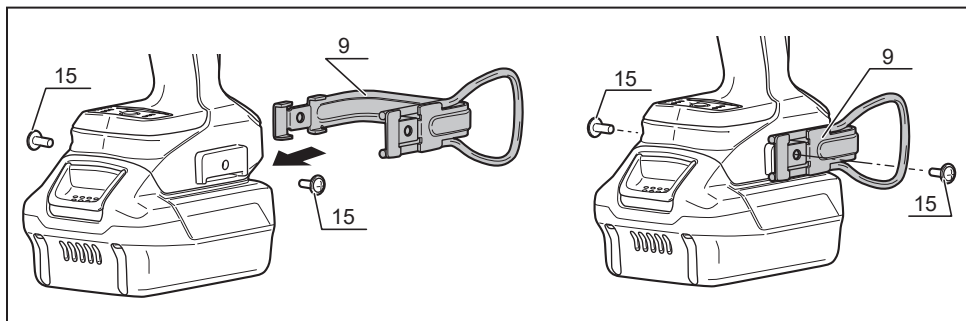
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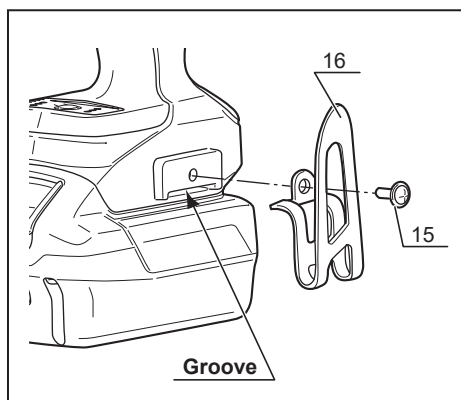
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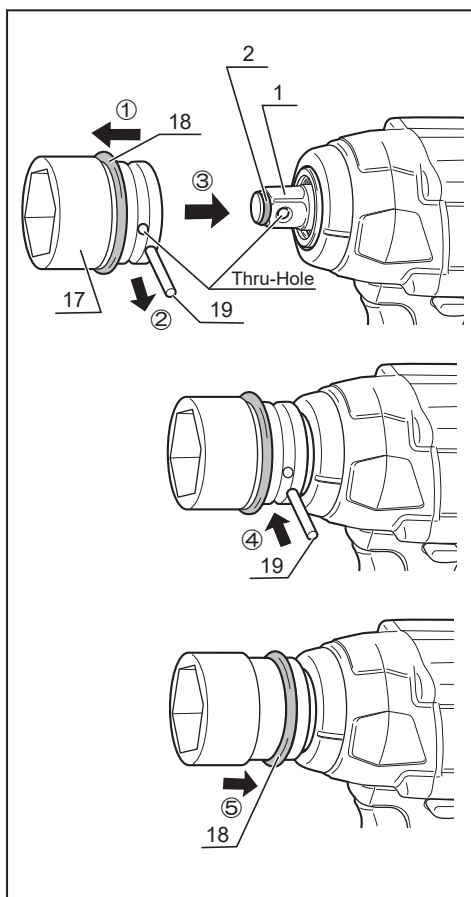
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6



7



8

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 WRENCH SAFETY PRECAUTIONS

1. Be aware that since this tool does not have to be plugged into an electrical outlet, it is always in operating condition.
2. First, charge the battery.
3. Be sure the battery pack is securely snapped in place.
4. When not in use, lock the trigger.
5. When operating at high places, be aware of things below you.
6. Make sure the socket is securely mounted. An incorrectly mounted socket is extremely dangerous since it can fly off or break during operation.
7. Do not wear cloth gloves or a necktie since they could become caught in a rotating socket.
8. 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. Anvil
2. Friction Ring
3. LED
4. Trigger
5. Forward / Reverse switch
6. Battery level indicator
7. Mode switch button
8. Mode display lamps
9. Carabiner hook ring
10. Battery pack
11. Charger
12. Push button
13. Charger lamp
14. Label
15. Screw
16. Belt hook
17. Socket
18. O-ring
19. Pin
20. Connector
21. Connector Junction

SPECIFICATIONS

Bit Shank size	12.7mm (1/2")	
Capacity	Bolt	M10 - M20
	High strength bolt	M12 - M16
Max.torque	300N·m	
No load speed	(High)	0-2,650 min ⁻¹
	(Middle)	0-1,600 min ⁻¹
	(Low)	0-1,450 min ⁻¹
Impact rate	(High)	0-3,400 min ⁻¹
	(Middle)	0-2,900 min ⁻¹
	(Low)	0-2,700 min ⁻¹
Voltage	DC18V (Li-ion)	
Dimension (Length x width x Height)	145x79x253mm (with 5,000mAh battery)	
Weight	1.7 kg (with 5,000mAh battery)	

STANDARD ACCESSORIES

• DIW183L5

Battery pack (B-1850LA, 5000mAh) x 2,
Charger (UBC1804LA), Belt hook, Carabiner hook ring,
Carrying case

* UBC1804LA Charging time Approx.54min (5,000 mAh)

• DIW183 (Tool only)

Belt hook, Carabiner hook ring

APPLICATIONS

(Use only for the purposes listed below.)

1. Tightening and Loosening the various bolts and nuts.



REMOVING AND ATTACHING THE BATTERY PACK

(Fig. 1)

(Attachment)

Align the protruding section of the battery pack (10) 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 (12) while pulling the battery pack (10) straight out in the direction of the arrow.

CHECKING THE BATTERY LEVEL (Fig. 2)

Pull the trigger (4) and the battery level indicator (6) 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 (10) 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 (11) 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 (UBC1804LA). (Fig.3, Table 1)

1. Securely insert the connector (20) of the power cord into the connector junction (21) of the charger.
2. Insert the electric plug of the charger into the outlet.
3. Firmly insert the battery pack (10) into the charger.
4. When the charging is complete, remove the battery pack from the charger (11).
5. Remove the electric plug of the charger from the outlet.
6. Remove the connector (20) from the connector junction (21) 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 (4).

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 (5) 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(3) is lit by pulling the trigger.

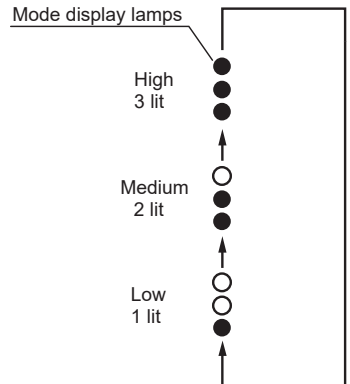
The LED continues to illuminate for 30 min. after releasing the trigger.

IMPACT POWER CONTROL (Fig. 5)

3 settings for impact power control (Fastening torque, No load speed, Impact rate) for versatile work.

(Switching method)

1. Pull the trigger (4).
2. The mode display lamps (8) will light up for approximately 30 seconds. (The mode set just before will light up.)
3. Pressing the mode switch button (7) while the mode display lamp (8) is lit switches the impact power in the order shown below.



Recommended applications

High : Efficient tightening of large diameter bolt

Medium : Work that requires less power than in high mode

Low : Tightening of small diameter bolt

CARABINER HOOK RING (Fig.6)

It can be hooked to a carabiner on the waist belt. The carabiner hook ring (9) can be reversed left or right.

(Removing)

Loosen the two screws (15) on both sides and remove the carabiner hook ring (9).

(Attaching)

Attach the carabiner hook ring (9) from the rear of the body and fasten the two screws (15) on both sides to secure.

BELT HOOK (Fig.7)

Remove the carabiner hook ring (9) when attaching the belt hook (16). The belt hook and carabiner hook ring cannot be used at the same time.

The belt hook (16) can be attached to either the left- or right-hand side.

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

(Attaching)

Insert the belt hook (16) in the groove on the body, and tighten the screw (15).

(Removing)

Loosen the screw, and remove the belt hook.

MOUNTING AND REMOVING THE SOCKET (Fig.8)

Hex socket (Type : Pin, O-ring)

(Mounting)

1. Shift the O-ring (18) which is placed in the groove of the socket (17), to the direction of the tip of the socket.
2. Remove pin (19) from the socket.
3. Align the socket with the Thru-Hole of the anvil (1) and insert the socket into the anvil.
4. Insert the pin into the socket.
5. Place the O-ring back in the groove.
 - When moving the O-ring to the tip of the socket, do not lose the pin.
 - The friction ring (2) can temporarily hold the pin in place so that it will not fall out when inserted into the socket, but be sure to insert the pin and attach the O-ring before use.

(Removing)

For removal, follow the reverse procedure of attachment.

TIGHTENING TORQUE

Since the suitable tightening torque varies with the material, size, and condition of the material into which objects are tightened, use a tightening time which is appropriate for the work conditions.

Since bolts may be stretched or broken if the tightening time is long, confirm the tightening time and tightening torque before starting the work.

The tightening torque varies with the condition of the battery pack. Since the striking force will become weaker, the striking times will become fewer, and the tightening torque will suddenly drop if the battery pack is on the verge of complete discharge, recharge the battery pack at regular intervals.

FACTORS AFFECTING THE TIGHTENING TORQUE

1. Voltage

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

2. Tightening time

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

The suitable tightening torque for the bolts varies with their material, size, and grade. If bolts are tightened with a high tightening torque, they may be stretched or broken. Tighten with a tightening time and tightening torque suitable for the bolts.

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

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

4. When the bolt diameter is different

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

5. Trigger position

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

6. Socket

The tightening torque is lower if a socket which is not suitable for the 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 ”

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