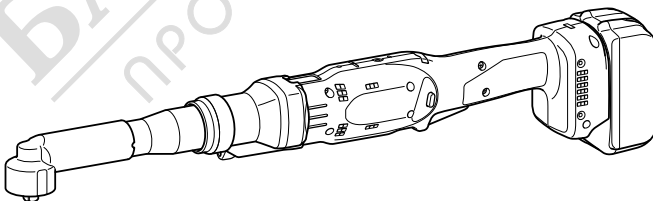
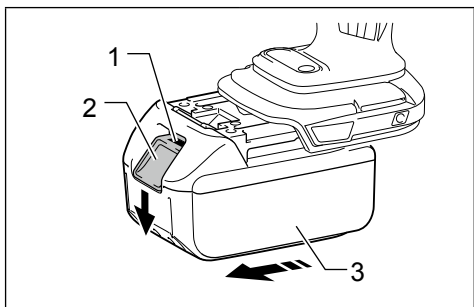




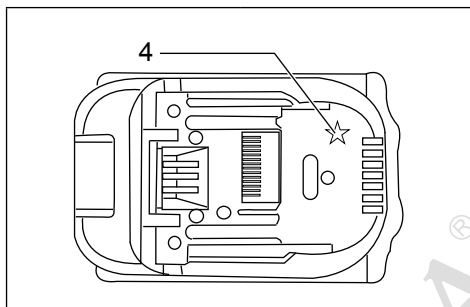
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<b>F</b>	<b>Visseuse Industrielle à Renvoi d'Angle</b>	<b>Manuel d'instructions</b>
<b>D</b>	<b>Akku- Winkelschrauber</b>	<b>Bedienungsanleitung</b>
<b>I</b>	<b>Avvitatore angolare a batteria</b>	<b>Istruzioni per l'uso</b>
<b>NL</b>	<b>Snoerloze haakse schroevendraaier</b>	<b>Gebruiksaanwijzing</b>
<b>E</b>	<b>Atornillador Angular Inalámbrico</b>	<b>Manual de instrucciones</b>
<b>P</b>	<b>Parafusadeira Angular a Bateria</b>	<b>Manual de instruções</b>
<b>DK</b>	<b>Akku-vinkelskruetrækker</b>	<b>Brugsanvisning</b>
<b>GR</b>	<b>Ασύρματο γωνιακό κατσαβίδι</b>	<b>Οδηγίες χρήσεως</b>
<b>TR</b>	<b>Akülü Açılı Vidalama Makinesi</b>	<b>Kullanma kılavuzu</b>

**DFL651F**

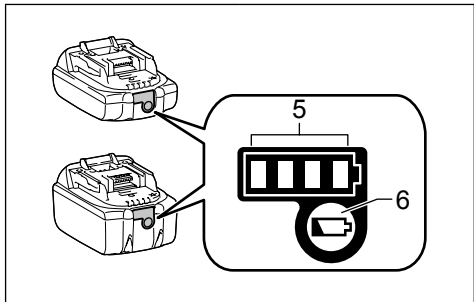




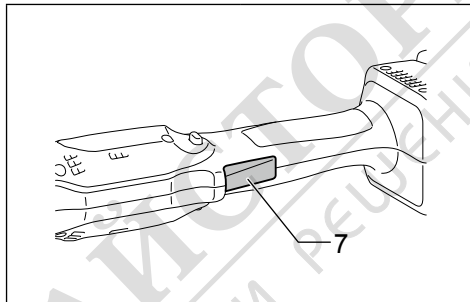
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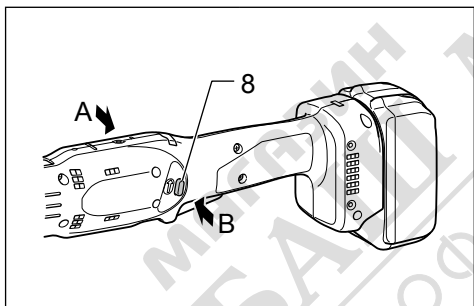
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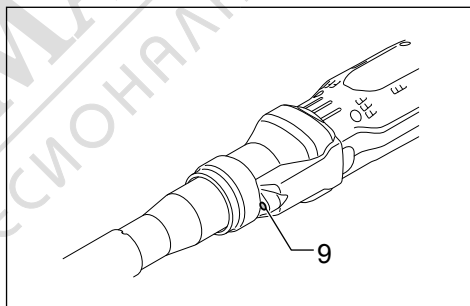
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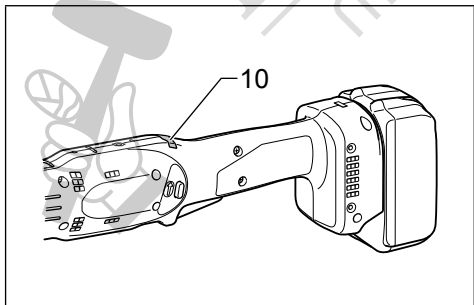
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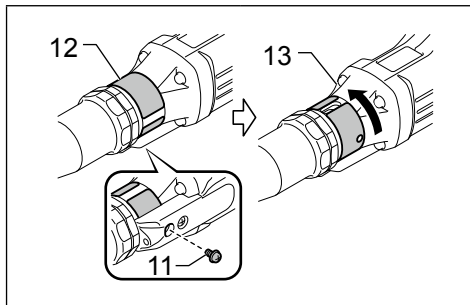
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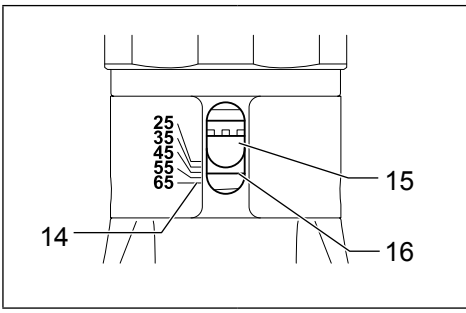
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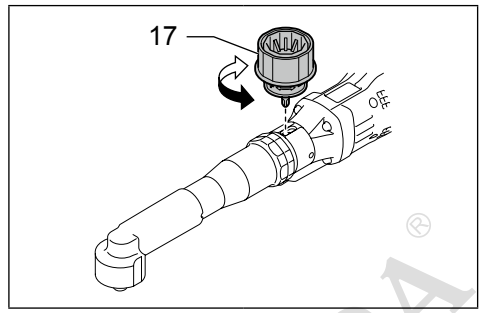


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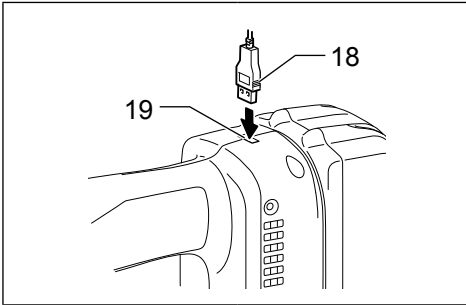
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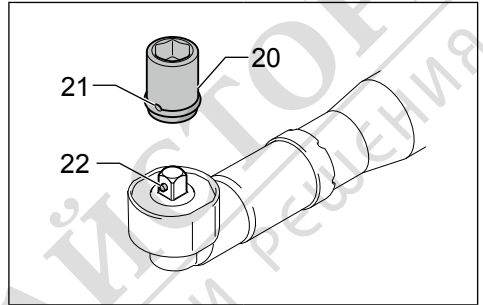
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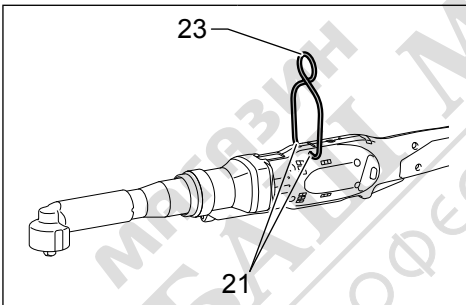
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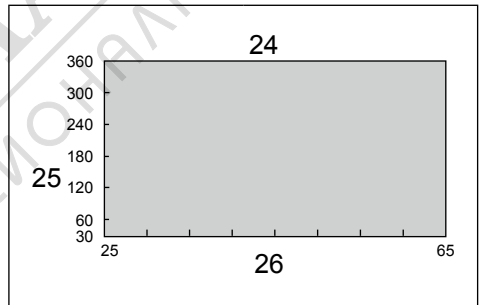


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**Explanation of general view**

1 Red indicator	10 LED indicator	19 USB port
2 Button	11 Screw	20 Socket
3 Battery cartridge	12 Ring	21 Hole
4 Star marking	13 Clutch case	22 Pin
5 Indicator lamps	14 Scale	23 Hook
6 Check button	15 Hole for adjusting grip	24 Range of fastening capacity
7 Switch trigger	16 Yellow line	25 Revolution angle (°)
8 Reversing switch lever	17 Adjusting grip	26 Torque N•m
9 Lamp	18 USB cable	

**SPECIFICATIONS**

Model		DFL651F
Fastening torque	Hard joint	25 – 65 N•m
	Soft joint	
Square drive		9.5 mm or 12.7 mm
No load speed *1		80 – 200 min <sup>-1</sup>
Overall length (Depending on the battery)		583 mm – 600 mm
Net weight		2.5 – 2.9 kg
Rated voltage		D.C. 18 V
Applicable USB cable		661432-2

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge. The lightest and heaviest combination, according to EPTA-Procedure 01/2014, are shown in the table.
- \*1 No load speed is adjustable with exclusive application.

**Applicable battery cartridge and charger**

Battery cartridge	BL1815N / BL1820B / BL1830B / BL1840B / BL1850B / BL1860B
Charger	DC18RC / DC18RD / DC18RE / DC18SD / DC18SE / DC18SF / DC18SH

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

**⚠ WARNING: Only use the battery cartridges and chargers listed above.** Use of any other battery cartridges and chargers may cause injury and/or fire.

ENE033-1

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**Intended use**

The tool is intended for screw driving in wood, metal and plastic.

GEA010-2

**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.

**Cordless screwdriver safety warnings**

1. **Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring.** Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
2. **Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.**
3. **Hold the tool firmly.**
4. **Keep hands away from rotating parts.**
5. **Do not touch the bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.**
6. **Always secure workpiece in a vise or similar hold-down device.**

7. Make sure there are no electrical cables, water pipes, gas pipes etc. that could cause a hazard if damaged by use of the tool.

### SAVE THESE INSTRUCTIONS.

#### **WARNING:**

**DO NOT** let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product.

**MISUSE** or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

ENC007-16

### Important safety instructions for battery cartridge


1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble or tamper with the battery cartridge. It may result in a fire, excessive heat, or explosion.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
  - (1) Do not touch the terminals with any conductive material.
  - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - (3) Do not expose battery cartridge to water or rain.

A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. Do not store and use the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge. Such conduct may result in a fire, excessive heat, or explosion.
9. Do not use a damaged battery.

10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements. For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

11. When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.
12. Use the batteries only with the products specified by Makita. Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. If the tool is not used for a long period of time, the battery must be removed from the tool.
14. During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.
15. Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.
16. Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge. It may result in poor performance or breakdown of the tool or battery cartridge.
17. Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines. It may result in a malfunction or breakdown of the tool or battery cartridge.
18. Keep the battery away from children.

### SAVE THESE INSTRUCTIONS.

 **CAUTION:** Only use genuine Makita batteries. Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita tool and charger.

### Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 10 °C - 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.
4. When not using the battery cartridge, remove it from the tool or the charger.
5. Charge the battery cartridge if you do not use it for a long period (more than six months).

### FUNCTIONAL DESCRIPTION

#### **CAUTION:**

- Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

### Installing or removing battery cartridge (Fig. 1)

#### **CAUTION:**

- Always switch off the tool before installing or removing of the battery cartridge.

- **Hold the tool and the battery cartridge firmly when installing or removing battery cartridge.** Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.

#### ⚠ CAUTION:

- Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.
- Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

### Battery protection system

The tool is equipped with a battery protection system. This system automatically cuts off power to the motor to extend battery life.

The tool will automatically stop during operation if the tool and/or battery are placed under one of the following conditions:

- **Overloaded:**  
The tool is operated in a manner that causes it to draw an abnormally high current. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart. If the tool does not start, the battery is overheated. In this situation, let the battery cool before turning the tool on again.
- **Low battery voltage:**  
The remaining battery capacity is too low and the tool will not operate. In this situation, remove and recharge the battery.



















#### NOTE:

- The overheat protection works only with a battery cartridge with a star marking. (Fig. 2)

### Indicating the remaining battery capacity (Fig. 3)

#### Only for battery cartridges with the indicator

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.

Indicator lamps			Remaining capacity
 Lighted	 Off	 Blinking	
			75% to 100%
			50% to 75%
			25% to 50%
			0% to 25%
			Charge the battery.
 	 	 	The battery may have malfunctioned.

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#### NOTE:

- Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.
- The first (far left) indicator lamp will blink when the battery protection system works.

### Switch action (Fig. 4)

#### ⚠ CAUTION:

- Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

### Reversing switch action (Fig. 5)

#### ⚠ CAUTION:

- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.
- When not operating the tool, always set the reversing switch lever to the neutral position.

This tool has a reversing switch to change the direction of rotation. Depress the reversing switch lever from the A side for clockwise rotation or from the B side for counterclockwise rotation.

When the reversing switch lever is in the neutral position, the switch trigger cannot be pulled.

### Lighting up the lamp(s) (Fig. 6)

#### ⚠ CAUTION:

- Do not look in the light or see the source of light directly.

Pull the switch trigger to light up the lamp. The lamp keeps on lighting while the switch trigger is being pulled. The lamp automatically goes out 10 seconds after the switch trigger is released.

**NOTE:**

- Use a dry cloth to wipe the dirt off the lens of lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.

**LED indicator / Beeper (Fig. 7)**

LED indicator / Beeper on the tool shows the following functions.

Function	Status of the tool	Status of the LED indicator/ beeper		Action to be taken ⊕
		LED indicator	Beeper	
Check of the LED indicator, light and beeper operation	When the battery cartridge is installed, the tool checks for its LED indicator, light and beeper.	Lights up first in green, next red. (And then the light comes on.)	A series of very short beeps	—
Detection of switch trigger operation when installing battery	When the battery cartridge is installed with the switch trigger pulled, the tool stops to avoid unintentional start.	Blinks in red and green alternatively.	A series of short beeps	Release the switch trigger.
Auto-stop with fastening completion	The tool setting has been achieved and the tool has stopped.	Lights up in green for approximately one second.	—	—
Alarm against insufficient fastening	The tool has not completed the tool setting because the switch trigger has released before reaching the set values. Otherwise, the settings of "Failure Criteria for Phase" has been achieved.	Lights up in red.	A long beep	Retighten the screw.
Intermission between the phases	The tool is in the intermitting period configured by the setting of "Shift to the next Phase".	Lights up or blinks in green (depending on settings)	—	—
Double-hitting detection	When the operator starts to re-fasten an already-fastened screw, the tool detect it and stops.	Lights up in red.	A long beep	—
Alarm for low battery capacity	The battery power became low and it is time to replace the battery cartridge.	Blinks in red slowly.	A series of long beeps	Replace the battery with fully charged one.
Auto-stop with low remaining battery capacity	The battery power is almost used up and the tool stopped.	Lights up in red.	A long beep	Replace the battery with fully charged one.
Anti-reset of controller	The battery voltage dropped abnormally for some reason, and the tool stopped.	Blinks in red and green alternatively.	A series of short beeps	Replace the battery with fully charged one.
Overheat protection	Tool's controller heated up abnormally and the tool stopped.	Blinks in red quickly.	A series of short beeps	Remove the battery cartridge immediately and cool the tool down.
Motor failure detection	Motor failure has been detected. At this time, tool does not work.	Blinks in red and green alternatively.	A series of short beeps	Ask your local Makita Service Center for repair.

Function	Status of the tool	Status of the LED indicator/ beeper		Action to be taken
		LED indicator	Beeper	
Maintenance alarm	A maintenance time has come according to your preset number of screws driven.	Blinks in yellow.	–	Reset the alarm with the application software.
Alarm for unavailable data communication (with the tool in connection with PC)	Data cannot be exchanged between the tool and PC in spite of the connection.	Blinks in yellow.	–	Restart the application software and re-connect the USB cable.
Indication that data communication is available (with the tool in connection with PC)	The tool is connected to PC and data communication is available.	Blinks in green.	–	–

### Adjusting the fastening torque (Fig. 8, 9 & 10)

When you wish to drive machine screws, wood screws, hex bolts, etc. with the predetermined torque, adjust the fastening torque as follows.

1. First remove the battery cartridge from the tool.
2. Remove the protector from the clutch case.
3. Loosen and remove the screw that secures ring.
4. Rotate the ring on the tool by hand so that a hole can be seen below the ring.
5. Place the battery cartridge in place and pull the switch trigger. Release it so that the adjusting ring rotates and the hole becomes visible as illustrated. And then remove the battery cartridge.
6. Use an optional adjusting grip to adjust the fastening torque. Insert the pin of the adjusting grip into the hole on the tool. And then, turn the adjusting grip clockwise to set a greater fastening torque, and counterclockwise to set a smaller fastening torque.
7. Align the edge of the adjusting ring with your desired number on the fastening torque scale.
8. Insert the battery cartridge and be sure that a fastening torque has been set up by using a fastening torque tester.
9. Rotate the ring on the tool and then tighten the screw to secure the ring.
10. Attach the protector back to the clutch case.

#### NOTE:

- Numbers on the fastening torque scale is a guideline to set up your desired fastening torque.

### Adjusting no-load speed and revolution angle etc. (Fig. 11)

After installing application soft in your computer, using USB cable allows no-load speed and revolution angle adjustment etc. of the tool.

#### NOTE:

- Use the makita genuine USB cable to connect your computer to the tool. Refer to the section "SPECIFICATIONS".
- For application soft, please contact Makita sales representative.

## ASSEMBLY

### ⚠ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

### Selecting correct socket

There are different types of sockets for some models depending on applications. Choose and install a correct socket for your application.

### Installing or removing socket (Fig. 12)

To install the socket, push it onto the square drive of the tool with one hand by depressing a pin on the square drive with another hand until it locks into place. To remove the socket, simply pull it off depressing the pin on the square drive.

### Installing hook (Fig. 13)

#### Optional accessory

The hook is useful to hang the tool.  
Install the hook to the holes on the tool body.

## OPERATION

Hold the tool firmly and place the socket over the bolt or nut. Then switch the tool on. When the clutch cuts in, the motor will stop automatically. Then release the switch trigger.

#### NOTE:

- Hold the tool with its square drive pointed straight at the bolt or nut, or the bolt or nut will be damaged.

### Limits of fastening capacity (Fig. 14)

Use the tool within the limits of fastening capacity. If you use the tool beyond the limits, the clutch does not work. And the tool cannot deliver enough fastening torque.

#### NOTE:

- The revolution angle means the angle which a screw/ bolt revolves when the tool attains to 100% from 50% of desired torque.



- Use of a low temperature conditioned battery cartridge may sometimes give warning for battery cartridge capacity by warning lamp and beeper which makes the tool stop immediately. In this case, the range of fastening capacity may be inferior to those shown in the above even if a charged battery cartridge is used.

- **Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).**

ENG900-1

## MAINTENANCE

### CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

## OPTIONAL ACCESSORIES

### CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Makita genuine batteries and chargers
- Anti kickback attachment
- Protector (Yellow, Blue, Red, Clear, Black)
- Adjusting grip
- Spindle complete 12.7
- USB cable
- Hook

### NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

ENG905-1

## Noise

The typical A-weighted noise level determined according to EN62841-2-2:

Sound pressure level ( $L_{pA}$ ): 75 dB (A)

Uncertainty (K): 3 dB (A)

The noise level under working may exceed 80 dB (A).

ENG907-1

### NOTE:

- The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.
- The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

### WARNING:

- **Wear ear protection.**
- **The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.**

## Vibration

The vibration total value (tri-axial vector sum) determined according to EN62841-2-2:

Work mode: screwdriving without impact

Vibration emission ( $a_{v1}$ ): 2.5 m/s<sup>2</sup> or less

Uncertainty (K): 1.5 m/s<sup>2</sup>

ENG901-2

### NOTE:

- The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.
- The declared vibration total value(s) may also be used in a preliminary assessment of exposure.

### WARNING:

- **The vibration emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.**
- **Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).**

## DECLARATIONS OF CONFORMITY

### For European countries only

The Declarations of conformity are included in Annex A to this instruction manual.