



hikoki DS18DBSL Power Tools Instruction Manual

[Home](#) » [HiKOKI](#) » hikoki DS18DBSL Power Tools Instruction Manual 

Contents

- 1 hikoki DS18DBSL Power Tools
- 2 GENERAL POWER TOOL SAFETY
- 3 NAMES OF PARTS
- 4 SYMBOLS
- 5 SPECIFICATIONS
- 6 CHARGING
- 7 MOUNTING AND OPERATION
- 8 MAINTENANCE AND INSPECTION
- 9 TROUBLESHOOTING
- 10 Documents / Resources
 - 10.1 References
- 11 Related Posts



hikoki DS18DBSL Power Tools



GENERAL POWER TOOL SAFETY

Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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.

Work area safety

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

Electrical safety

- 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.
- 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.

- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 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.
- 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.
- 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.

Personal safety

- 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 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.
- 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.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 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.

Power tool use and care

- 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.
- 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.
- Disconnect the plug from the power source and/ or the battery pack 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.
- 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.
- Maintain power tools. 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.

- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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.

Battery tool use and care

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

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.

CORDLESS DRIVER DRILL / COMBI DRILL SAFETY WARNINGS <DV18DBSL>

Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.

<DS14DBSL / DS18DBSL / DV18DBSL>

- Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fastener may contact hidden wiring. Cutting accessory and fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

ADDITIONAL SAFETY WARNINGS

- Make sure that the area to be drilled is absolutely free of any hidden obstructions including electrical wiring, water, or gas pipes. Drilling into the aforementioned may result in electric shock or short circuit, gas leak or other hazards that can cause serious accidents or injuries.
- Make sure to securely hold the tool during operation. Failure to do so can result in accidents or injuries.
- Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- Setting up and checking the work environment. Check if the work environment is suitable by following the precaution.
- Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
- Never disassemble the rechargeable battery and charger.

- Never short-circuit the rechargeable battery. Shortcircuiting the battery will cause a great electric current and overheat. It results in burn or damage to the battery.
- Do not dispose of the battery in fire. If the battery is burnt, it may explode.
- Bring the battery to the shop from which it was purchased as soon as the post-charging battery life becomes too short for practical use. Do not dispose of the exhausted battery.
- Do not insert object into the air ventilation slots of the charger. Inserting metal objects or flammables into the charger air ventilation slots will result in an electrical shock hazard or damaged charger.
- When mounting a bit into the keyless chuck, tighten the sleeve adequately. If the sleeve is not tight, the bit may slip or fall out, causing injury.
- When changing the rotational speed with the shift knob, confirm that the switch is off . Changing the speed while the motor is rotating will damage the gears.
- The clutch dial cannot be set between the numerals “1, 4, 7 ... 22” or the dots, and do not use with the clutch dial numeral between “22” and the line at the middle of the drill mark. Doing so may cause damage.
- Always use this unit with clockwise rotation, when using it as an impact drill.
- Resting the unit after continuous work.
- The power tool is equipped with a temperature protection circuit to protect the motor. Continuous work may cause the temperature of the unit to rise, activating the temperature protection circuit and automatically stopping operation. If this happens, allow the power tool to cool before resuming use.
- The motor may stop in the event the tool is overloaded. In this should occur, release the tool’s switch and eliminate the cause of the overload.
- The motor rotation may be locked to cease while the unit is used as drill. While operating the driver drill, take care not to lock the motor.
- The use of the battery in a cold condition (below 0 degree Centigrade) can sometimes result in the weakened tightening torque and reduced amount of work. This, however, is a temporary phenomenon, and returns to normal when the battery warms up.
- Install securely the hook. Unless the hook is securely installed, it may cause an injury while using.
- Do not look directly into the light. Such actions could result in eye injury. Wipe off any dirt or grime attached to the lens of the LED light with a soft cloth, being careful not to scratch the lens. Scratches on the lens of the LED light can result in decreased brightness.
- This product contains a strong permanent magnet in the motor. Observe the following adhering of chips to the tool and the effect of the permanent magnet on electronic devices.
 - Do not place the tool on a workbench or work area where metal chips are present. The chips may adhere to the tool, resulting in injury or malfunction.
 - If chips have adhered to the tool, do not touch it. Remove the chips with a brush. Failure to do so may result in injury.
 - Do not use the tool in the vicinity of precision devices such as cell phones, magnetic cards or electronic memory media.
 - Doing so may lead to misoperation, malfunction or loss of data.

CAUTION ON LITHIUM-ION BATTERY

To extend the lifetime, the lithium-ion battery equips with the protection function to stop the output. In the cases of 1 to 3 described below, when using this product, even if you are pulling the switch, the motor may stop. This is not the trouble but the result of the protection function.

- When the battery power remaining runs out, the motor stops. In such a case, charge it up immediately.
- If the tool is overloaded, the motor may stop. In this case, release the switch of tool and eliminate causes of overloading. After that, you can use it again.
- If the battery is overheated under overload work, the battery power may stop. In this case, stop using the battery and let the battery cool. After that, you can use it again. Furthermore, please heed the following warning and caution.

WARNING

In order to prevent any battery leakage, heat generation, smoke emission, explosion and ignition beforehand, please be sure to heed the following precautions.

- Make sure that swarf and dust do not collect on the battery.
 - During work make sure that swarf and dust do not fall on the battery.
 - Make sure that any swarf and dust falling on the power tool during work do not collect on the battery.
 - Do not store an unused battery in a location exposed to swarf and dust.
 - Before storing a battery, remove any swarf and dust that may adhere to it and do not store it together with metal parts (screws, nails, etc.)
- Do not pierce battery with a sharp object such as a nail, strike with a hammer, step on, throw or subject the battery to severe physical shock.
- Do not use an apparently damaged or deformed battery.
- Do not use the battery in reverse polarity.
- Do not connect directly to electrical outlets or car cigarette lighter sockets.
- Do not use the battery for a purpose other than those specified.
- If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
- Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high-pressure container.
- Keep away from fire immediately when leakage or foul odor are detected.
- Do not use in a location where strong static electricity generates.
- If there is battery leakage, foul odor, heat generated, discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery charger, and stop use.

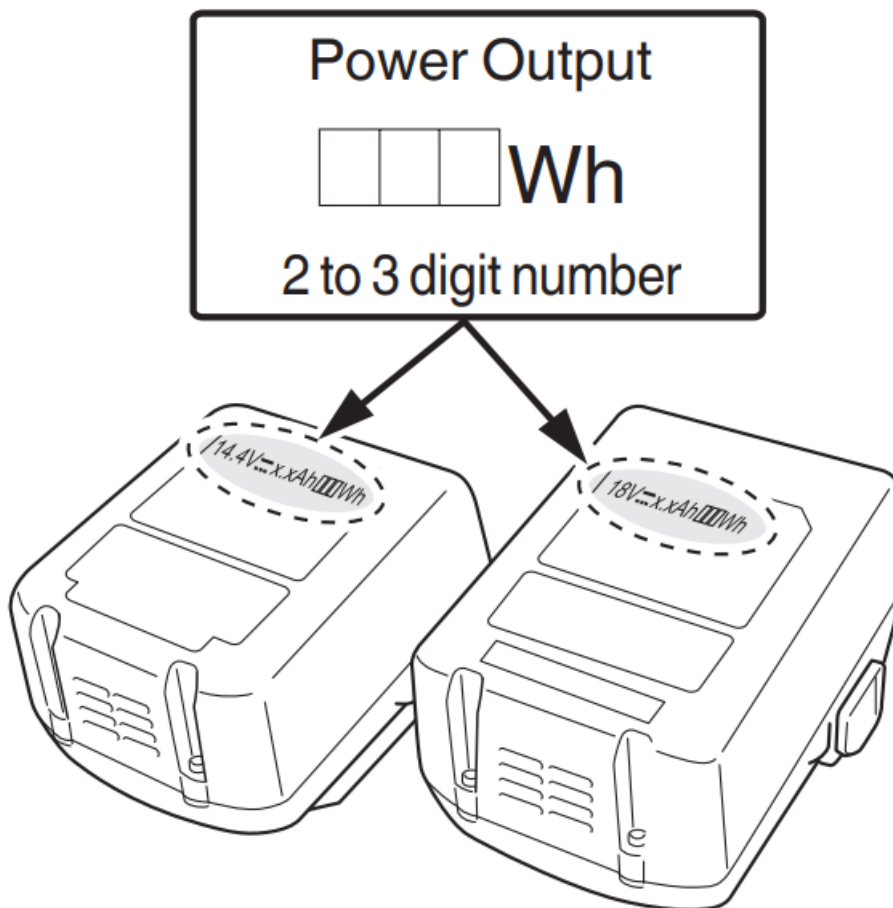
CAUTION

- If liquid leaking from the battery gets into your eyes, do not rub your eyes and wash them well with fresh clean water such as tap water and contact a doctor immediately. If left untreated, the liquid may cause eye problems
- If liquid leaks onto your skin or clothes, wash well with clean water such as tap water immediately. There is a possibility that this can cause skin irritation.
- If you find rust, foul odor, overheating, discolor, deformation, and/or other irregularities when using the battery for the first time, do not use and return it to your supplier or vendor.
- **WARNING** If a conductive foreign matter enters in the terminal of the lithium-ion battery, the battery may be shorted, causing fire. When storing the lithium-ion battery, obey surely the rules of following contents.
- Do not place conductive debris, nail and wires such as iron wire and copper wire in the storage case.

- To prevent shorting from occurring, load the battery in the tool or insert securely the battery cover for storing until the ventilator is not seen.

REGARDING LITHIUM-ION BATTERY TRANSPORTATION

When transporting a lithium-ion battery, please observe the following precautions. **WARNING** Notify the transporting company that a package contains a lithium-ion battery, inform the company of its power output and follow the instructions of the transportation company when arranging transport. ○ Lithium-ion batteries that exceed a power output of 100Wh are considered to be in the freight classification of Dangerous Goods and will require special application procedures. ○ For transportation abroad, you must comply with international law and the rules and regulations of the destination country.


















NAMES OF PARTS










1. Rechargeable battery
2. Latch
3. Handle
4. Pilot lamp
5. Drill mark
6. Clutch dial
7. Triangle mark
8. Hammer mark
9. Shift knob
10. Screw
11. Hook
12. Groove

- 13. trigger switch
- 14. Remaining battery indicator lamp
- 15. Display panel
- 16. Sleeve
- 17. Push button

SYMBOLS

	DS14DBSL / DS18DBSL: Cordless Driver Drill DV18DBSL: Cordless Combi Drill
	To reduce the risk of injury, user must read instruction manual.

	<p>Only for EU countries Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.</p>
	Direct current
V	Rated voltage
n_0	No-load speed
min ⁻¹	Oscillation per minute
Bpm	Impact rate
Ls	Low speed
Hs	High speed
	Brick
	Wood
	Metal
	Machine screw
	Wood screw
	Drill chuck capacity
	Weight (According to EPTA-Procedure 01/2003)
	Drilling
	Impact drilling
	Switching ON
	Switching OFF

	Disconnect the battery
	Change rotation speed - High speed
	Change rotation speed - Low speed
	Clockwise rotation
	Counterclockwise rotation
	The battery remaining power is nearly empty. Recharge the battery soonest possible
	The battery remaining power is a half.
	The battery remaining power is enough.
	Warning

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed on page 202. Standard accessories are subject to change without notice

APPLICATIONS

• <DS14DBSL / DS18DBSL>

- Driving and removing of machine screws, wood screws, tapping screws, etc.
- Drilling of various metals
- Drilling of various woods

• <DV18DBSL>

- Drilling of brick and concrete block, etc.
- Driving and removing of machine screws, wood screws, tapping screws, etc.
- Drilling of various metals
- Drilling of various woods

SPECIFICATIONS

The specifications of this machine are listed in the Table on page 202.

NOTE

Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.




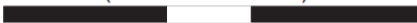

CHARGING

Before using the power tool, charge the battery as follows.

- Connect the charger's power cord to the receptacle. When connecting the plug of the charger to a receptacle,

the pilot lamp will blink in red (At 1- second intervals).

- Do not use the electrical cord if damaged. Have it repaired immediately?
- Insert the battery into the charger. Firmly insert the battery into the charger
- **Charging**
 - When inserting a battery in the charger, charging will commence and the pilot lamp will light continuously in red.
 - When the battery becomes fully recharged, the pilot lamp will blink in red. (At 1-second intervals)

Indications of the pilot lamp				
Pilot lamp (red)	Before charging	Blinks	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds) 	
	While charging	Lights	Lights continuously 	
	Charging complete	Blinks	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds) 	
	Overheat standby	Blinks	Lights for 1 second. Does not light for 0.5 seconds. (off for 0.5 seconds) 	Battery overheated. Unable to charge. (Charging will commence when battery cools)
	Charging impossible	Flickers	Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds) 	Malfunction in the battery or the charger

Pilot lamp indication

- The indications of the pilot lamp will be as shown in Table 1, according to the condition of the charger or the rechargeable battery.
- Regarding the temperatures and charging time of the battery. The temperatures and charging time will become

Battery \ Charger		UC18YFSL	UC18YKSL
Charging voltage	V	14.4V – 18V	
Weight	kg	0.5	0.35
Temperatures at which the battery can be recharged		0°C – 50°C	
Charging time for battery capacity, approx. (At 20°C)			
1.3 Ah	min.	20	35
1.5 Ah	min.	22	40
2.0 Ah	min.	30	60
2.5 Ah	min.	35	75
3.0 Ah	min.	45	90
4.0 Ah	min.	60	120
5.0 Ah	min.	75	150
Number of battery cells		4 – 10	

NOTE

The recharging time may vary according to the ambient temperature and power source voltage.

CAUTION

When the battery charger has been continuously used, the battery charger will be heated, thus constituting the cause of the failures. Once the charging has been completed, give 15 minutes rest until the next charging.

- Disconnect the charger's power cord from the receptacle.

- Hold the charger firmly and pull out the battery.

NOTE

Be sure to pull out the battery from the charger after use, and then keep it.

CAUTION

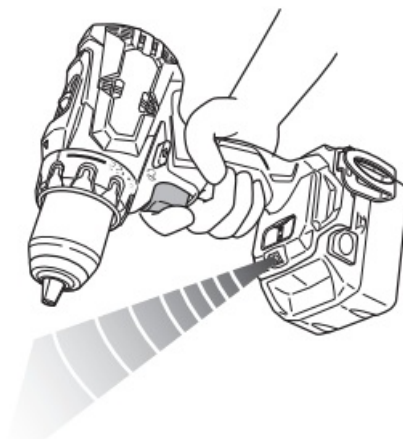
- If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the pilot lamp of the charger lights for 1 second, does not light for 0.5 seconds (off for 0.5 seconds). In such a case, first let the battery cool, then start charging.
- When the pilot lamp flickers (at 0.2-second intervals), check for and take out any foreign objects in the charger's battery connector. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center
- Since the built-in micro computer takes about 3 seconds to confirm that the battery being charged with charger is taken out, wait for a minimum of 3 seconds before reinserting it to continue charging. If the battery is reinserted within 3 seconds, the battery may not be properly charged.

MOUNTING AND OPERATION

Action	Figure	Page
Removing and inserting the battery	1	203
Charging	2	203
Tightening torque adjustment	3	203
Selecting the drill position	4	203
Selecting the impact position	5	203
Change rotation speed	6	203
Removing and mounting the hook	7	204
Remaining battery indicator	8	204
How to use the LED light	9	204
Mounting the bit	10	204
Reversing the rotational direction	11	205
Switch operation	12	205
Selecting accessories	—	206

LED LIGHT WARNING SIGNALS

This product features functions that are designed to protect the tool itself as well as the battery. While the switch is pulled, if any of the safeguard functions are triggered during operation, the LED light will blink as described in Table 3. When any of the safeguard functions are triggered, immediately remove your finger from the switch and follow the instructions described under corrective action.



Safeguard Function	LED Light Display	Corrective Action
Overburden Protection	On 0.1 second/off 0.1 second	If the operating with the shift knob set on HIGH, adjust to LOW and continue operation. Remove the cause of the overburdening.
Temperature Protection	On 0.5 second/off 0.5 second	Allow the tool and battery to thoroughly cool.

MAINTENANCE AND INSPECTION

- **Inspecting the tool**

Since use of a dull tool will degrade efficiency and cause possible motor malfunction, sharpen or replace the tool as soon as abrasion is noted.

- **Inspecting the mounting screws**

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.

- **Maintenance of the motor**

The motor unit winding is the very “heart” of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

- **Cleaning on the outside**

When the power tool is stained, wipe with a soft dry cloth or a cloth moistened with soapy water. Do not use chloric solvents, gasoline or paint thinner, for they melt plastics.

- **Storage** Store the power tool in a place in which the temperature is less than 40°C and out of reach of children.

NOTE

Storing lithium-ion batteries.

- Make sure the lithium-ion batteries have been fully charged before storing them.
- Prolonged storage (3 months or more) of batteries with a low charge may result in performance deterioration, significantly reducing battery usage time or rendering the batteries incapable of holding a charge.
- However, significantly reduced battery usage time may be recovered by repeatedly charging and using the batteries two to five times.

- If the battery usage time is extremely short despite repeated charging and use, consider the batteries dead and purchase new batteries.

GUARANTEE

We guarantee HiKOKI Power Tools in accordance with statutory/country specific regulations. This guarantee does not cover defects or damage due to misuse, abuse, or normal wear and tear. In case of complaint, please send the Power Tool, undismantled, with the GUARANTEE CERTIFICATE found at the end of this Handling instruction, to a HiKOKI Authorized Service Center Information concerning airborne noise and vibration The measured values were determined according to EN60745 and declared in accordance with ISO 4871.

Measured A-weighted sound power level:

- 83 dB (A) (DS14DBSL)
- 87 dB (A) (DS18DBSL)
- 100 dB (A) (DV18DBSL)

Measured A-weighted sound pressure level:

- 72 dB (A) (DS14DBSL)
- 76 dB (A) (DS18DBSL)
- 89 dB (A) (DV18DBSL)
- Uncertainty K: 3 dB (A).

Wear hearing protection.

Vibration total values (triax vector sum) determined according to EN60745.

Drilling into metal:

- Vibration emission value a_h , $D < 2.5 \text{ m/s}^2$
- (DS14DBSL, DS18DBSL)
- Uncertainty $K = 1.5 \text{ m/s}^2$ (DS14DBSL, DS18DBSL)

Impact drilling into concrete:

- Vibration emission value a_h , $ID = 7.5 \text{ m/s}^2$ (DV18DBSL)
- Uncertainty $K = 1.5 \text{ m/s}^2$ (DV18DBSL)

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

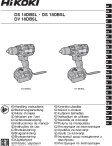
WARNING

- The vibration emission during actual use of the power tool can differ from the declared total value depending in the ways in which the tool is used.

- 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).

TROUBLESHOOTING

Documents / Resources

	hikoki DS18DBSL Power Tools [pdf] Instruction Manual Tools, Power Tools, Power, DS18DBSL, DS14DBSL
---	---

References

- [H Hikoki Powertools](#)