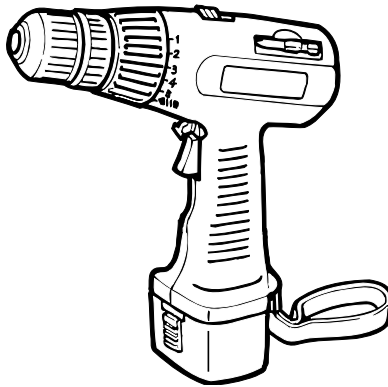


HITACHI

INSTRUCTION MANUAL AND SAFETY INSTRUCTIONS FOR CORDLESS DRIVER DRILL

Variable speed
MODEL FDS 10DVA



⚠ WARNING:

Improper and unsafe use of this power tool can result in death or serious bodily injury!

This manual contains important information about product safety. Please read and understand this manual before operating the power tool. Please keep this manual available for others before they use the power tool.

— CONTENTS —

	Page
IMPORTANT INFORMATION	3
MEANINGS OF SIGNAL WORDS	3
SAFETY	
IMPORTANT SAFETY INSTRUCTIONS FOR USING ALL POWER TOOLS	4
IMPORTANT SAFETY INSTRUCTIONS FOR USE OF THE CORDLESS DRIVER DRILL	7
IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CHARGER	7
IMPORTANT SAFETY INSTRUCTIONS FOR USE OF THE BATTERY AND BATTERY CHARGER	8
DISPOSAL OF THE EXHAUSTED BATTERY	9
OPERATION AND MAINTENANCE	
MODEL	10
NAME OF PARTS	10
SPECIFICATIONS	11
ACCESSORIES	12
STANDARD ACCESSORIES	12
OPTIONAL ACCESSORIES	12
APPLICATIONS	13
REMOVAL AND INSTALLATION METHOD OF BATTERY	13
CHARGING METHOD	14
BEFORE USE	15
OPERATION	15
THE SCOPE AND SUGGESTIONS FOR USES	18
HOW TO SELECT TIGHTENING POWER AND SPEED	19
MAINTENANCE AND INSPECTION	19
STORAGE	20
SERVICE AND REPAIRS	20
PARTS LIST	22

IMPORTANT INFORMATION

Read and understand all of the operating instructions, safety precautions and warnings in the Instruction Manual before operating or maintaining this power tool.

Most accidents that result from power tool operation and maintenance are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures.

Basic safety precautions are outlined in the "SAFETY" section of this Instruction Manual and in the sections which contain the operation and maintenance instructions.

Hazards that must be avoided to prevent bodily injury or machine damage are identified by WARNINGS on the power tool and in this Instruction Manual.

Never use this power tool in a manner that has not been specifically recommended by HITACHI, unless you first confirm that the planned use will be safe for you and others.

The warranty of this power tool is separately packed. Before using this power tool, make sure to thoroughly read and understand the content of the warranty.

MEANINGS OF SIGNAL WORDS


WARNING indicates a potentially hazardous situations which, if ignored, could result in serious personal injury.

CAUTION indicates a hazardous situations which, if ignored, could result in moderate personal injury, or could cause machine damage.

NOTE emphasizes essential information.

SAFETY

IMPORTANT SAFETY INSTRUCTIONS FOR USING ALL POWER TOOLS

 **WARNING:** Death or serious bodily injury could result from improper or unsafe use of power tools. To avoid these risks, follow these basic safety instructions:

READ ALL INSTRUCTIONS

1. NEVER TOUCH MOVING PARTS.

Never place your hands, fingers or other body parts near the tool's moving parts.

2. NEVER OPERATE WITHOUT ALL GUARDS IN PLACE.

Never operate this tool without all guards or safety features in place and in proper working order. If maintenance or servicing requires the removal of a guard or safety feature, be sure to replace the guard or safety feature before resuming operation of the tool.

3. ALWAYS WEAR EYE AND EAR PROTECTION.

Protect yourself from flying or expelled wood chips, metal particles or other debris by using safety goggles or equivalent eye protection. Wear ear protection to protect yourself from excessive noise.

4. AVOID UNINTENTIONAL STARTING.

Don't carry the tool with your finger near the power switch.

5. STORE TOOL PROPERLY.

When not in use, the tool should be stored in a dry place. Keep out of reach of children. Lock-out the storage area.

6. KEEP WORK AREA CLEAN.

Cluttered areas and benches invite injuries.

Clear all work areas and work benches of unnecessary tools, debris, furniture, etc.

7. CONSIDER WORK AREA ENVIRONMENT.

Don't expose power tools to rain.

Don't use power tools in damp or wet locations.

Keep work area well lit and well ventilated.

Don't use tool in presence of flammable liquids or gases.

Power tools produce sparks during operation. They also spark when switching ON/OFF. Never use power tools in sites containing lacquer, paint, benzene, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.

- 8. KEEP CHILDREN AWAY.**
Do not let visitors contact tool.
All visitors should be kept safely away from work area.
- 9. DON'T FORCE TOOL.**
It will do the job better and safer at the rate for which it was intended.
- 10. USE RIGHT TOOL.**
Don't force small tool or attachment to do the job of a heavy-duty tool.
Don't use tool for purpose not intended-for example-don't use circular saw for cutting tree limbs or logs.
- 11. DRESS PROPERLY.**
Do not wear loose clothing or jewelry.
They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors.
Wear protective hair covering to contain long hair.
- 12. USE FACE OR DUST MASK IF OPERATION IS DUSTY.**
- 13. SECURE WORK.**
Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 14. DON'T OVERREACH.**
Keep proper footing and balance at all times.
- 15. MAINTAIN TOOLS WITH CARE.**
Keep tools sharp and clean for better and safer performance.
Follow instructions for lubricating and changing accessories.
Keep handles dry, clean, and free from oil and grease.
- 16. REMOVE ADJUSTING KEYS AND WRENCHES.**
Keys and adjusting wrenches remove from tool before turning it on.
- 17. STAY ALERT.**
Watch what you are doing. Use common sense. Do not operate tool when you are tired.
Tools should never be used by you if you are under the influence of alcohol, drugs or medication that makes you drowsy.
- 18. CHECK DAMAGED PARTS.**
Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this Instruction Manual.
Have defective switches replaced by authorized service center.
Do not use tool if switch does not turn it on and off.

- 19. NEVER USE A POWER TOOL FOR APPLICATIONS OTHER THAN THOSE SPECIFIED.**
Never use a power tool for applications other than those specified in the Instruction Manual.
- 20. HANDLE TOOL CORRECTLY.**
Operate the tool according to the instructions provided herein. Do not drop or throw the tool. Never allow the tool to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.
- 21. CHECK FOR LIVE WIRES.**
Avoid the risk of severe electrical shock by checking for live electrical wires that may be hidden by walls, floors or ceilings. The wires should be de-energized before work begins.
- 22. KEEP ALL SCREWS, BOLTS AND COVERS TIGHTLY IN PLACE.**
Keep all screws, bolts, and plates tightly mounted. Check their condition periodically.
- 23. DO NOT USE POWER TOOLS IF THE PLASTIC HOUSING OR HANDLE ARE CRACKED.**
Cracks in the tool's housing or handle can lead to electric shock. Such tools should not be used until repaired.
- 24. BLADES AND ACCESSORIES MUST BE SECURELY MOUNTED TO THE TOOL**
Prevent potential injuries to yourself or others. Blades, cutting implements and accessories which have been mounted to the tool should be secure and tight.
- 25. NEVER USE A TOOL WHICH IS DEFECTIVE OR OPERATING ABNORMALLY.**
If the tool appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by an authorized Hitachi service center.
- 26. CAREFULLY HANDLE POWER TOOLS.**
Should a power tool be dropped or struck against hard materials inadvertently it may be deformed, cracked, or damaged.
- 27. DO NOT WIPE PLASTIC PARTS WITH SOLVENT.**
Solvents such as gasoline, thinner, benzine, carbon tetrachloride, and alcohol may damage and crack plastic parts. Do not wipe them with such solvents. Wipe plastic parts with a soft cloth lightly dampened with soapy water.
- 28. USE ONLY AUTHENTIC HITACHI REPLACEMENT PARTS.**
Replacement parts not manufactured by Hitachi may void your warranty and can lead to malfunction and resulting injuries. Authentic Hitachi parts are available from your dealer.

IMPORTANT SAFETY INSTRUCTIONS FOR USE OF THE CORDLESS DRIVER DRILL

⚠ WARNING: Death or serious bodily injury could result from improper or unsafe use of the cordless driver drill. To avoid these risks, follow these basic safety instructions:

1. Never place hands or other body parts near the drill bit or chuck during operation. Hold the drill by its handle only.
2. Because the cordless driver drill operates by battery power, be aware of the fact that it can begin to operate at any time.
3. Wear eye and ear protection at all times.
4. When working at elevated locations, clear the area of all other people and be aware of conditions below you.

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CHARGER

1. This manual contains important safety and operating instructions for battery charger Model UC 9SC.
2. Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
3. To reduce risk of injury, charge HITACHI rechargeable battery type FEB9. Other type of batteries may burst causing personal injury and damage.
4. Do not expose battery charger to rain or snow.
5. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
6. To reduce risk of damage to electric plug and cord, pull by plug when disconnecting battery charger.
7. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
8. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used make sure:
 - a. That blades of extension cord are the same number, size, and shape as those of plug on battery charger:
 - b. That extension cord is properly wired and in good electrical condition; and
 - c. That wire size is large enough for AC ampere rating of battery charger as specified in Table 1.

Table 1
RECOMMENDED MINIMUM AWG SIZE FOR
EXTENSION CORDS FOR BATTERY CHARGERS

AC Input Rating Amperes*		AWG Size of Cord			
Equal to or greater than	but less than	Length of Cord, Feet (Meter)			
		25 (7.5)	50 (15)	100 (30)	150 (45)
0	2	18	18	18	16
2	3	18	18	16	14
3	4	18	18	16	14

* If the input rating of a battery charger is given in watts rather than in amperes, the corresponding ampere rating is to be determined by dividing the wattage rating by the voltage rating-for example:

$$\frac{1250\text{watts}}{125\text{ volts}} = 10\text{ amperes}$$


9. Do not operate battery charger with damaged cord or plug-replace them immediately.
10. Do not operate battery charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
11. Do not disassemble battery charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
12. To reduce risk of electric shock, unplug charger from receptacle before attempting any maintenance or cleaning. Removing the battery will not reduce this risk.

IMPORTANT SAFETY INSTRUCTIONS FOR USE OF THE BATTERY AND BATTERY CHARGER

You must charge the battery before you can use the cordless impact wrench. Before using the model UC9SC battery charger, be sure to read all instructions and cautionary statements on it, the battery and in this manual.

REMEMBER: USE ONLY HITACHI BATTERY TYPE FEB9. OTHER TYPES OF BATTERIES MAY BURST AND CAUSE INJURY!

Follow these instructions to avoid the risk of injury:

 WARNING: Improper use of the battery or battery charger can lead to serious injury. To avoid these injuries:

1. **NEVER** disassemble the battery.
2. **NEVER** incinerate the battery, even if it is damaged or is completely worn out. The battery can explode in a fire.
3. **NEVER** short-circuit the battery.
4. **NEVER** insert any objects into the battery charger's air vents. Electric shock or damage to the battery charger may result.
5. **NEVER** charge outdoors. Keep the battery away from direct sunlight and use only where there is low humidity and good ventilation.
6. **NEVER** charge when the temperature is below 50°F (10°C) or above 104°F (40°C).
7. **NEVER** connect two battery chargers together.
8. **NEVER** insert foreign objects into the hole for the battery or the battery charger.
9. **NEVER** use a booster transformer when charging.
10. **NEVER** use an engine generator or DC power to charge.
11. **NEVER** store the battery or battery charger in places where the temperature may reach or exceed 104°F (40°C).
12. **ALWAYS** operate charger on standard household electrical power (120 volts). Using the charger on any other voltage may overheat and damage the charger.
13. **ALWAYS** wait at least 15 minutes between charges to avoid overheating the charger.
14. **ALWAYS** disconnect the power cord from its receptacle when the charger is not in use.

DISPOSAL OF THE EXHAUSTED BATTERY

⚠ WARNING: Do not dispose of the exhausted battery. The battery must explode if it is incinerated. The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

**SAVE THESE INSTRUCTIONS
AND
MAKE THEM AVAILABLE TO
OTHER USERS OF THIS TOOL!**

OPERATION AND MAINTENANCE

NOTE: The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the power tool.

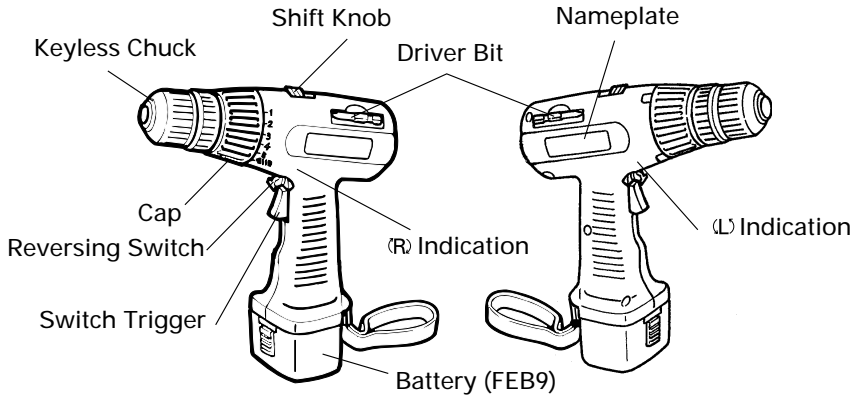
Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own power tool.

MODEL

FDS10DVA: with charger and case

NAME OF PARTS

1. Cordless Driver Drill (FDS10DVA)



○ Battery (FEB9)

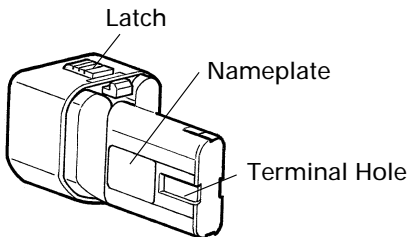


Fig. 1

2. Battery Charger (UC9SC)

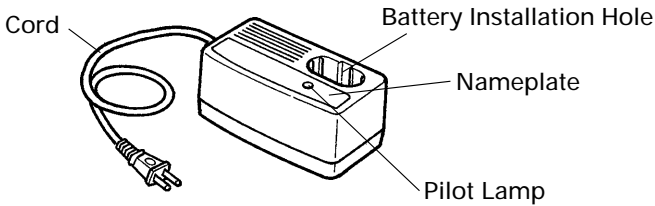


Fig. 2

SPECIFICATIONS

1. Cordless Driver Drill (FDS10DVA)

Model	FDS10DVA
Motor	DC Motor
No-load speed	Low speed 0 – 280 rpm High speed 0 – 850 rpm
Capacity	Drilling Wood 23/32" (18mm) (Soft Wood) Metal 3/8" (10mm) (Mild Steel or Aluminum) Screw Driver Wood screw # 12 × 1-3/4" (Soft Wood) (5.5 mm × 45 mm) Small screw 1/4" (6mm)
Drill chuck capacity	Maximum gripping diameter 3/8" (10mm)
Battery (FEB9)	Nickel cadmium battery Voltage DC9.6V Charging & discharging frequency about 500
Weight	3.3 lbs (1.5kg)

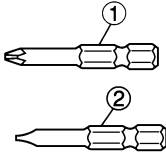
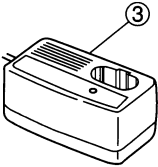
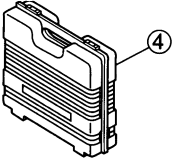
2. Battery Charger (UC9SC)

Input power source	Single phase: AC 120V 60Hz
Charging time	Approx. One hour (At a temperature of 68°F (20°))
Charger	Charging voltage DC 9.6 Charging current DC 1.55A
Weight	2.4 lbs (1.1 kg)

ACCESSORIES

- ⚠ WARNING:** Accessories for this power tool are mentioned in this Instruction Manual.
The use of any other attachment or accessory can be dangerous and could cause injury or mechanical damage.

STANDARD ACCESSORIES

FDS10DVA (1HCK)			
	① Phillips bit (No. 2) 1 (Code No. 308510)	② Slotted bit (5/32" (4 mm)) 1 (Code No. 308511)	③ Battery Charger (UC 9SC) 1

OPTIONAL ACCESSORIES.....sold separately

1. Battery (FEB9)

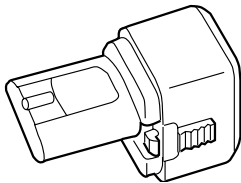


Fig. 4

2. Phillips bit

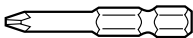


Fig. 5

UseDriving of wood screws, tapping screws and machine screws with the head of a plus groove
Size No. 2

3. Slotted bit

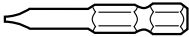


Fig. 6

UseDriving of wood screw and machine screws with the head of a minus groove
Size.... 5/32" (4mm)

4. Hexagon socket (Various socket for 5/32" (4mm), 3/16" (5mm) and 15/64" (6mm) bolts)

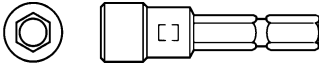


Fig. 7

NOTE:

Accessories are subject to change without any obligation on the part of the HITACHI.

APPLICATIONS

- Use as a drill
Drilling of soft steel, wood, plastic and aluminum materials.
- Use as a screwdriver
Tightening and loosening of machine screws, wood screws and tapping screws.

REMOVAL AND INSTALLATION METHOD OF BATTERY

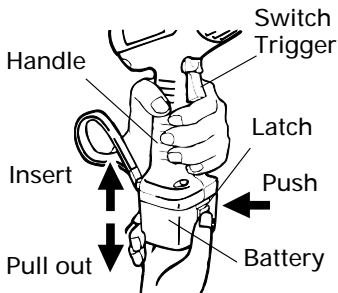


Fig. 8

- How to remove the battery.
Hold the handle tight.
Press the latch located at the front of the battery and pull out the battery. (Fig. 8)
- How to install the battery.
Position the battery so that the latch faces toward the switch trigger in the handle and insert the battery. (Fig.8)

CHARGING METHOD

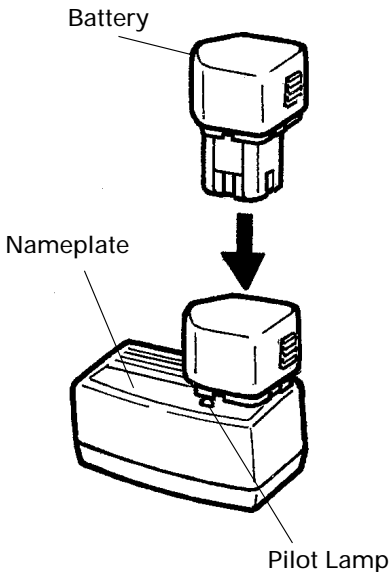


Fig. 9

NOTE:

Before plugging into the receptacle, make sure the following points.

- The power source voltage is stated on the nameplate.
- The cord is not damaged.

⚠ WARNING:

Do not charge at voltage higher than indicated on the nameplate.

If charged at voltage higher than indicated on the nameplate, the charger will burn up.

1. Insert the battery to the battery charger. Insert the battery into the battery charger as shown in Fig. 9. Make sure it contacts the bottom of the battery charger.

2. Insert the plug of battery charger into the receptacle.

⚠ WARNING: Do not use the electrical cord if damaged. Have it repaired immediately.

3. Charging

- When the plug of battery charger has been inserted into the receptacle, charging will commence and the pilot lamp will light on.

NOTE: If the pilot lamp does not light, pull out the plug from the receptacle and check if the battery is properly mounted.

- In approx. one hour, when the battery is fully charged, the pilot lamp will go out.

NOTE: The battery charging time becomes longer when a temperature is low or the voltage of the power source is too low.

When the pilot lamp does not go off even if more than four hour has passed after start of the charging, stop the charging and contact your HITACHI AUTHORIZED SERVICE CENTER.

4. Disconnect battery charger from the receptacle.

⚠ CAUTION:

Do not pull the plug out of the receptacle by pulling on the cord. Make sure to grasp the plug when removing from receptacle to avoid damaging cord.

5. Remove the battery from the battery charger.

Supporting the battery charger with hand, pull out the battery from the battery charger.

⚠ CAUTION:

- **When the battery charger has been continuously used, the battery charger will be heated, thus constituting the cause of failures. Once the charging has been completed, give 15 minutes rest until the next charging.**
- **If the battery is recharged when it is warm due to battery use or exposure to sunlight, the pilot lamp may not light. The battery will not be recharged. In such a case, let the battery cool before charging.**

BEFORE USE

Check the work area to make sure that it is clear of debris and clutter.

Clear the area of unnecessary personnel. Ensure that lighting and ventilation is adequate.

OPERATION

1. Mounting and dismounting the bit

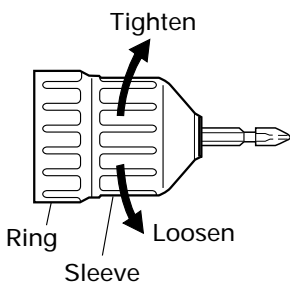


Fig. 10

(1) Mounting the bit.

Insert a screwdriver bit etc. into the keyless drill chuck.

Firmly grasp the ring and tighten the sleeve by turning it toward the right (in the clockwise direction as viewed from the front). (See Fig. 10)

NOTE: If the sleeve becomes loose during operation, tighten it further.

The tightening force becomes stronger when the sleeve is tightened.

(2) Dismounting the bit.

Firmly grasp the ring and loosen the sleeve by turning it toward the left (in the counterclockwise direction as viewed from the front). (See Fig. 10)

⚠ CAUTION: When mounting a bit into the keyless chuck, tighten firmly. If the sleeve is not tight, the bit may slip or fall out, causing injury.

NOTE: When it is no longer possible to loosen the sleeve, use a vise or similar instrument to secure the bit.

Set the cap's white line between "1" and "3" on the housing. (Fig. 12)

Turn the sleeve to the loose side (left side) while operating the clutch.

It should be easy now to loosen the sleeve.

2. Check the attachment of the battery.

⚠ CAUTION: Install the battery properly. If not installed properly, it may fall out of the power tool and cause danger.

3. Check the direction of rotation.

When the reversing switch is set to **Ⓜ** the bit rotates clockwise when viewed from the drill rear. When set to **Ⓛ**, the bit rotates counterclockwise. (Fig. 11)

(The **Ⓛ** and **Ⓜ** marks are provided on the housing)

4. Switch operation

- When the switch trigger is pulled, the bit rotates.

When the trigger is let loose, the bit stops.

- The rotational speed can be controlled by varying the amount that the switch trigger is pulled. Speed is low when the switch trigger is pulled slightly and increases as the switch is pulled more.

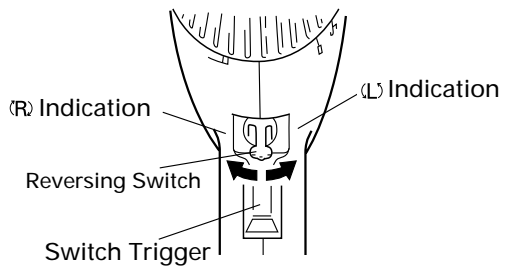


Fig. 11

NOTE: A buzzing noise is produced when the motor is about to rotate; this is only a noise, not a machine failure.

5. Check the cap position.

The tightening power of this Cordless driver drill can be adjusted according to the cap position, at which the cap is set.

- For use as a screwdriver, set the cap white line at one of the numerals "1" to "5" on the housing.
- For use as a drill, set the white line at the drill mark "🔩". (Fig. 12)

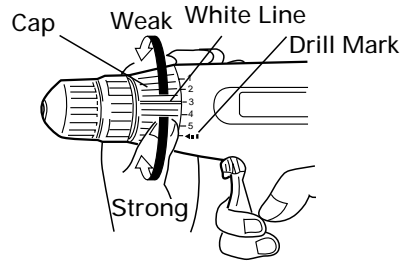


Fig. 12

NOTE: Set the white line of the cap at one of either the numerals or drill mark.
The white line cannot be set between the marks.

6. Tightening power adjustment

(1) Tightening power

Tightening power must correspond in its intensity to the screw diameter.

When too much power is used, the screw could break.

Be sure to adjust the cap in conformity with the screw diameter.

(2) Tightening power indication

Tightening power must be changed according to the screw type, screw size and the materials to be tightened. The amount of tightening power is indicated by the numbers "1", "2", "3", "4", and "5" located on the housing. "1" is the minimum tightening power. "5" is the maximum tightening power. (Fig. 12)

(3) How to adjust the tightening power

Rotate the cap to the desired tightening power by aligning the white line of the cap with the desired number.

Adjust the tightening power by cap rotation in such a way that when the tightening power is too strong, set the next smaller numeral at the arrow mark and set the next larger numeral when too weak.

⚠ CAUTION:

The motor stops during operation, or will not turn, check battery strength and charge if necessary. If motor still does not operate, the motor may be burnt. Consult your authorized Hitachi Service Center.

7. High speed–Low speed changeover (Fig. 13)

The shift knob controls the drill speed.

Slide toward the drill bit for "low" speed.

Slide away from the drill bit for "high" speed.

Slide the shift knob completely to engage properly.

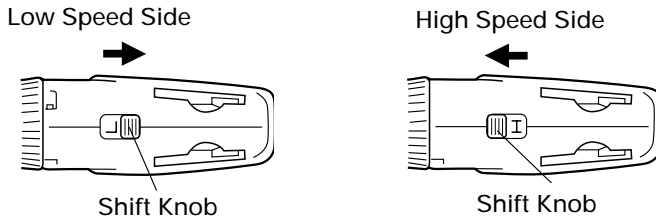


Fig. 13

⚠ CAUTION:

- Never change drill speed while motor is operating. Turn the drill "off" before adjusting the shift knob.
- To ensure the engagement of the gear, push the shift knob to the end. (Fig. 13)

8. To use for drilling metal

- Use a metal-working drill bit. Apply a center punch at the desired drill site to protect against drill bit slippage.
- Apply sewing machine oil or soapy water to the drill bit with an old toothbrush to lubricate it and extend its life.
- Do not force the tool. Apply minimal pressure to the drill bit. Let the drill bit do the work.

⚠ CAUTION:

Drilling a hole in the metal exerts considerable force on the edge of the hole so that the drill bit may slip from the keyless chuck. If this happens, decrease the pushing pressure on the power tool so that the drill bit does not slip.

THE SCOPE AND SUGGESTIONS FOR USES

Table 2



Work	Cap position	Usable range	Suggestions
Drilling		Steel : 3/8" (10mm) (Thickness 1/16" (1.6mm))	Take care not to lock the motor
		Wood : 23/32" (18mm) (Soft wood) (Thickness 23/32"(18mm))	
		Aluminum : 3/8" (10mm) (Thickness 1/16" (1.6mm))	
Screw tightening	1 ~ 5	Small screws : 1/4" (6mm)	Use the bit and socket matching the screw diameter
		Nut : 1/4" (6mm)	
		Wood screws : # 12 x 1-3/4" (Soft wood) (5.5mm 45mm)	Use after drilling a pilot hole

NOTE

The numbers shown in Table 2 are references and vary according to type and hardness of material to be drilled or screwed and sharpness of drill bit.

HOW TO SELECT TIGHTENING POWER AND SPEED

Table 3

	Use	Cap position	Speed (shift knob position)	
			Low speed	High speed
Screw tightening	Small screws	1 ~ 5	For #8 (4mm) or below screw size	For #10 (5mm) or above screw size
	Wood screws	1 ~ 5	For #6 (3.5mm) or below screw size	For #6 (3.8mm) or above screw size
Drilling	Wood materials		For 3/8" (10mm) or larger diameters	For 3/8" (10mm) or less diameters
	Metallic materials		For drilling with an iron working drill	_____

NOTE

The selected content shown in table 3 indicates the differences according to screw type, screw size and material used.

CAUTION:

- While operating the Cordless driver drill, take care not to lock the motor. If the motor is locked, immediately turn the power off. If the motor is locked for a while, the motor or battery must be burnt.
- Do tighten too strongly as the screw heads will be damaged.

MAINTENANCE AND INSPECTION

CAUTION: Pull out battery before doing any inspection or maintenance.

1. Checking the condition of the bit.
The bits should be checked regularly. If worn or broken bits can slip or decrease the efficiency of the motor and burn it out.
Replace worn bits with new ones.

CAUTION: If you use a driver bit of which point is worn or broken, it will be dangerous since it slips. So replace it with a new one.

2. Check the Mounting Screws

Loose mounting screws are dangerous. Regularly inspect them and make sure they are tight.

 **CAUTION: Using this power tool with loosen, screws is extremely dangerous.**

3. Check for Dust

Dust may be removed with a soft cloth or a cloth dampened with soapy water. Do not use bleach, chlorine, gasoline or thinner, for they may damage the plastics.

STORAGE

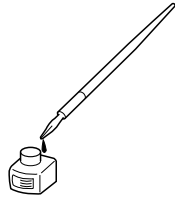
Storing in a place below 104°F (40°C) and out of the reach of children.

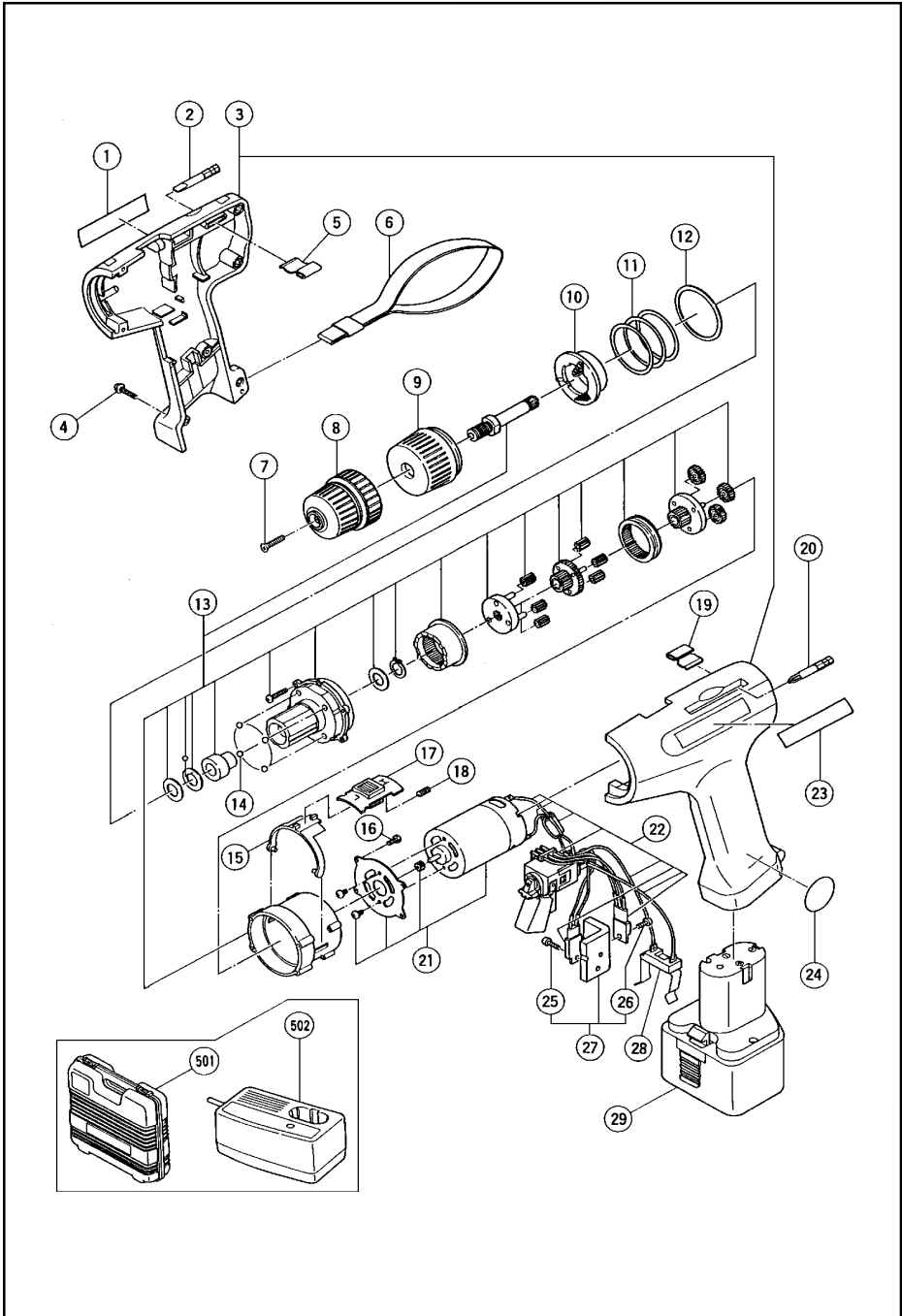
SERVICE AND REPAIRS

All quality power tools will eventually require servicing or replacement of parts because of wear from normal use. To assure that only authorized replacement parts will be used, all service and repairs must be performed by a HITACHI AUTHORIZED SERVICE CENTER, ONLY.

NOTE:

Specifications are subject to change without any obligation on the part of the HITACHI.





Item No.	Part Name
1	Nameplate
2	- Driver Bit 4MM×50L
3	Housing (A)·(B) Set
4	Tapping Screw (W/Flange) D3×14
5	Bit Holder (B)
6	Strap
7	Flat Hd. Screw (Left Hnd) M5×20
8	Drill Chuck 10TLRA-N
9	Cap
10	Spring Holder
11	Spring
12	Thrust Plate
13	Spindle And Gear Set
14	Steel Ball
15	Shift Arm
16	Tapping Screw D3×8
17	Shift Knob
18	Shift Spring
19	Bit Holder (A)
20	+ Driver Bit No.2×50L
21	Motor
22	Switch
23	Decoration Nameplate
24	Mark Plate
25	FT Screw M3×10
26	FT Screw M3.5×8
27	Fin Ass'y
28	Terminal
29	Battery FEB9
501	Case
502	Charger (Model UC9SC)

Parts are subject to change without any obligation on the part of the HITACHI due to improvements.



NICKEL-CADMIUM
BATTERY MUST BE RE-
CYCLED OR
DISPOSED OF
PROPERLY.

Please contact HITACHI KOKI U.S.A.
LTD. at 1-800-59-TOOLS (toll free), or
HITACHI AUTHORIZED POWER TOOL
SERVICE CENTER regarding COLLEC-
TION.

Hitachi Koki Co., Ltd.

Nippon Bldg., 6-2, Ohtemachi 2-chome
Chiyoda-Ku, Tokyo 100, Japan

604
Code No. C99067362
Printed in Taiwan