

# HITACHI

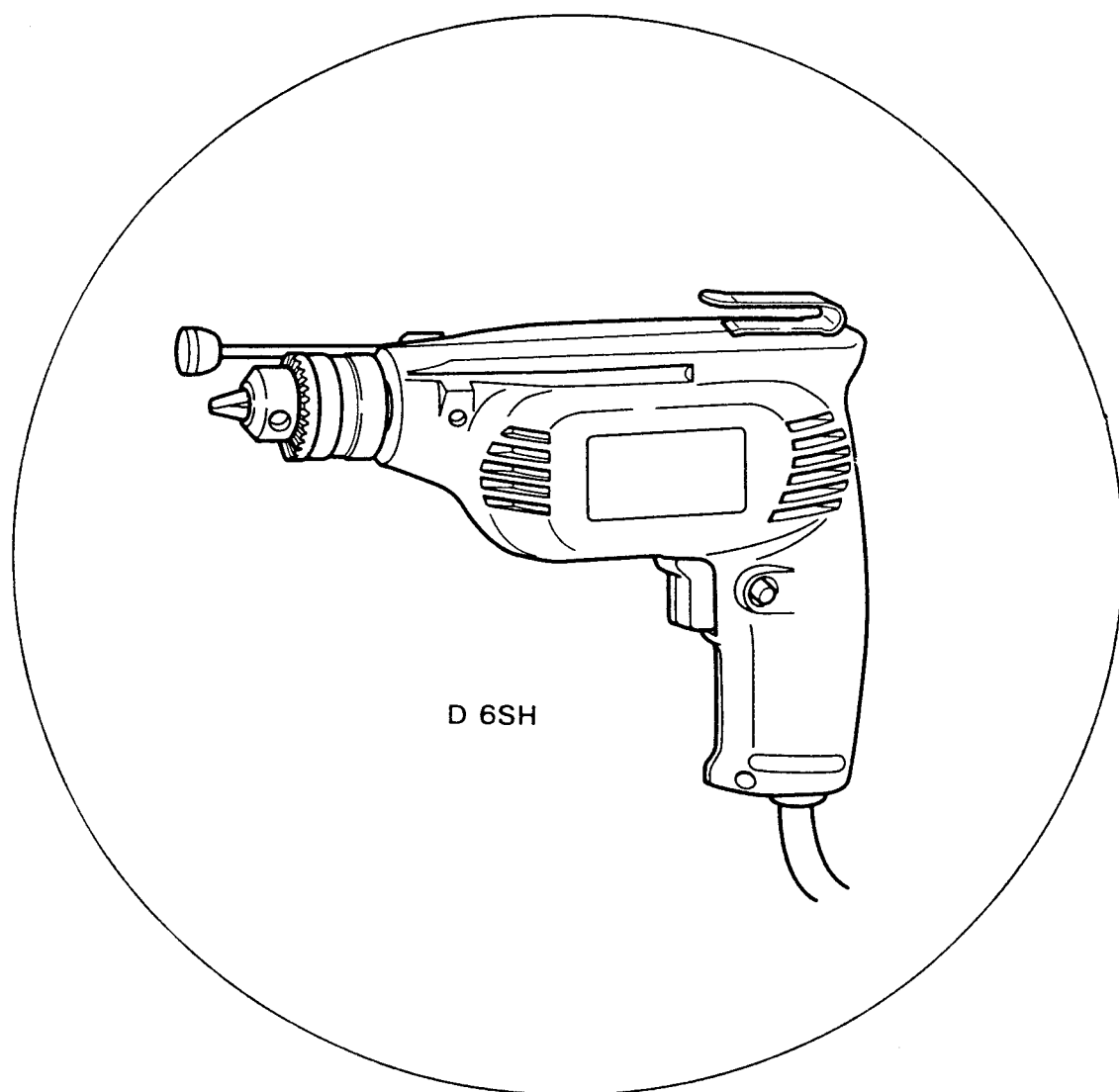
## 日立牌电钻

## DRILL

### D 6SH · D 6SB

### 使用说明书

Handling instructions

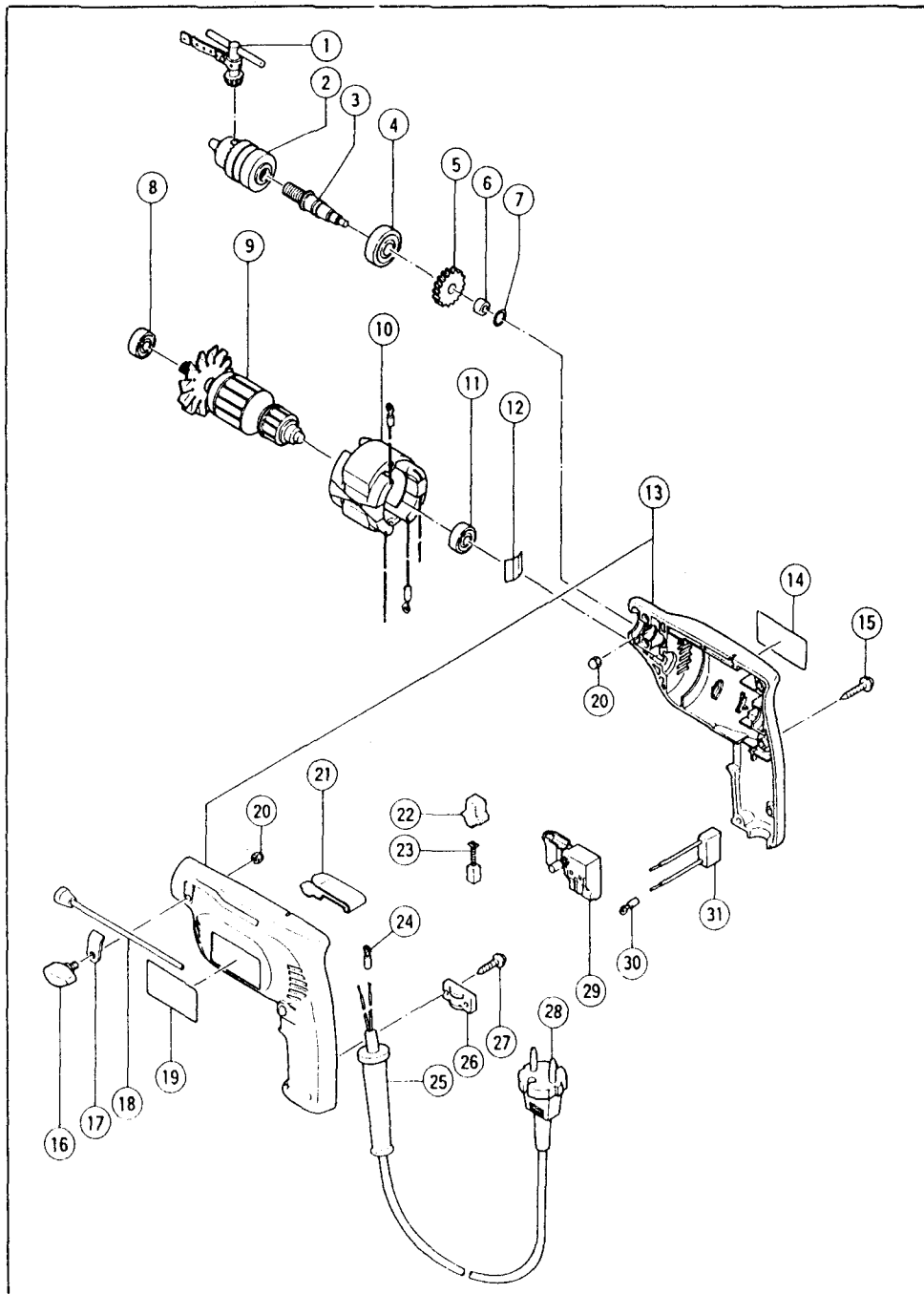


使用前务请详加阅读

Read through carefully and understand these instructions before use.

D6SH

The exploded assembly drawing should be used only for authorized service center.



D6SH

Item No.	Part Name
1	Chuck Wrench
2	Drill Chuck
3	Spindle
4	Ball Bearing
5	Gear
6	Metal
7	O-ring (S-10)
8	Ball Bearing
9	Armature
10	Stator
11	Ball Bearing
12	Thrust Spring
13	Housing (A)•(B) Set
14	Name Plate
15	Tapping Screw (W/Flange) D4×20
16	Stopper Bolt
17	Stopper Holder
18	Stopper Rod
19	HITACHI Label
20	Domed Cap Nut M5
21	Hook
22	Brush Holder
23	Carbon Brush
24	Terminal
25	Cord Armor
26	Cord Clip
27	Tapping Screw (W/Flange) D4×16
28	Cord
29	Switch (B)
30	Terminal
31	Nois Suppressor

Parts are subject to possible modification without notice due to improvements. The drawing and the list are parts structural drawing and parts list of model D6SH. For model D6SB refer to the drawing and the list.

## GENERAL OPERATIONAL PRECAUTIONS

1. Keep work area clean. Cluttered areas and benches invite injuries.
  2. 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. 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 dangerous sites containing lacquer, paint, benzene, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.
  3. Guard against electric shock. Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
  4. Keep children away. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
  5. Store idle tools. When not in use, tools should be stored in dry and high or locked-up place-out of reach of children.
  6. Don't force tool. It will do the job better and safer at the rate for which it was intended.
  7. 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.
  8. 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.
  9. Use eye protection. Also use face or dust mask if cutting operation is dusty.
  10. Don't abuse cord. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
  11. 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.
  12. Don't overreach. Keep proper footing and balance at all times.
  13. Maintain tools with care. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service center. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
  14. Disconnect tools. When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
  15. Remove adjusting keys and wrenches. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
  16. Avoid unintentional starting. Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
  17. Outdoor use extension cords. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
  18. Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
  19. 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 handling instructions. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
20. Use the power tools only for applications specified in the Handling Instructions.
  21. To avoid personal injury, use only the accessories or attachment recommended in these handling instructions or in the HITACHI catalog.
  22. Let only the authorized service facility do the repairing.  
The manufacturer will not be responsible for any damages or injuries caused by repair by unauthorized persons or by mishandling of the tool.
  23. To ensure the designed operational integrity of power tools, do not remove installed covers or screws.
  24. Do not touch movable parts or accessories unless the power source has been disconnected.
  25. Use your tool at lower input than specified on the nameplate; otherwise, the finish may be spoiled and working efficiency reduced by motor overload.
  26. Do not wipe plastic parts with solvent. Solvents such as gasoline, thinner, benzene, carbon tetrachloride, alcohol, ammonia and oil containing chloric annex may damage and crack plastic parts. Do not wipe them with such solvent. Wipe plastic parts with a soft cloth lightly dampened with soapy water.
  27. Use only genuine HITACHI replacement parts.
  28. Use the exploded assembly drawing on this handling instructions only for authorized servicing.

## PRECAUTIONS ON USING DRILL

1. When mounting the drill bit, insert it fully into the drill chuck and completely tighten the drill chuck with the chuck wrench.
2. Do not wear gloves made of stuff liable to roll up such as cotton, wool, cloth or string, etc.
3. Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.
4. When placing the drill on the floor, make sure that the drill has stopped completely.
5. Before drilling into a wall, floor or ceiling, thoroughly confirm that no items such as electric cables or conduits are buried inside.
6. When working in high position, take care of downward direction.

## SPECIFICATIONS

Model	D6SH	D6SB
Voltage (by areas)*	(110V, 115V, 120V, 127V, 220V, 230V, 240V) ~	
Power Input	240W*	
No-Load Speed	4500/min.	3000/min.
Capacity: Steel	6.5mm	6.5mm
Wood	9mm	13mm
Weight (w/o cord)	0.9kg	

\*Be sure to check the nameplate on product as it is subject to change by areas.

## STANDARD ACCESSORIES

- (1) Chuck Wrench ..... 1
  - (2) Stopper Ass'y ..... 1
  - (3) Hook ..... 1
- Standard accessories are subject to change without notice.

## APPLICATION

Drilling holes into various metals, lumbers and plastics.

## PRIOR TO OPERATION

- 1. Power source**  
Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
- 2. Power switch**  
Ensure that the power switch is in the OFF position. If the plug is connected to a receptacle while the power switch is in the ON position, the power tool will start operating immediately, inviting serious accident.
- 3. Extension cord**  
When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.
- 4. Fitting the drill bit**  
Fit the drill bit into the chuck and use the chuck wrench to secure it, tightening the chuck by each of the three holes in turn.
- 5. Selecting the appropriate drill bit**
  - (1) When drilling holes in metals or plastics:  
Use ordinary metalworking drill bits;  
Applicable drill sizes range from 0.5 mm min. to 6.5 mm max.
  - (2) When drilling holes in lumber:  
Use woodworking drill bits.  
For small holes of 6.5 mm dia, or less, use metalworking drill bits.

## PRACTICAL HANDLING PROCEDURES

- 1. Pressure:**  
Drilling will NOT be accelerated by placing heavy pressure on the drill. Such action will only result in a damaged drill bit, decreased drilling efficiency and/or shortened service life of the drill.
- 2. When drilling completely through the material:**  
When the drill bit bores completely through the material, careless handling often results in a broken drill bit or damage to the drill body itself due to the sudden movement of the drill. Always be alert and ready to release the pushing force when drilling through the material.
- 3. Switch operation:**  
By pulling the trigger switch and depressing the stopper, the switch is held in the ON position for continuous operation. To turn the drill OFF, pull the trigger switch again and release.
- 4. Precautions on Boring**  
The drill may become overheated during operation; however, it is sufficiently operable. Do not cool the drill bit in water or oil.
- 5. Using stopper assembly (Fig. 1)**  
**NOTE:** The stopper rod can be fixed on whichever side of the housing.  
Adjust the stopper rod to reach a required drilling depth. To fix it securely, use the stopper bolt.
- 6. Caution immediately after use**  
Immediately after use, if the Drill is still revolving and it is placed on a location where considerable ground chips and dust have accumulated, dust may occasionally be absorbed into the Drill mechanism.  
Always pay attention to this possibility.

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## **MAINTENANCE AND INSPECTION**

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### **CAUTION**

Be sure to switch power OFF and disconnect the plug from the receptacle during maintenance and inspection.

#### **1. Inspecting the drill bit**

Since use of an abraded drill bit will cause motor malfunctioning and degraded efficiency, replace the drill bit with a new one or resharpening without delay when abrasion is noted.

#### **2. Inspecting the mounting screws**

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

#### **3. Servicing**

Consult an authorized Service Center in the event of power tool failure.

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#### **Note:**

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

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**Hitachi Koki Co., Ltd.**