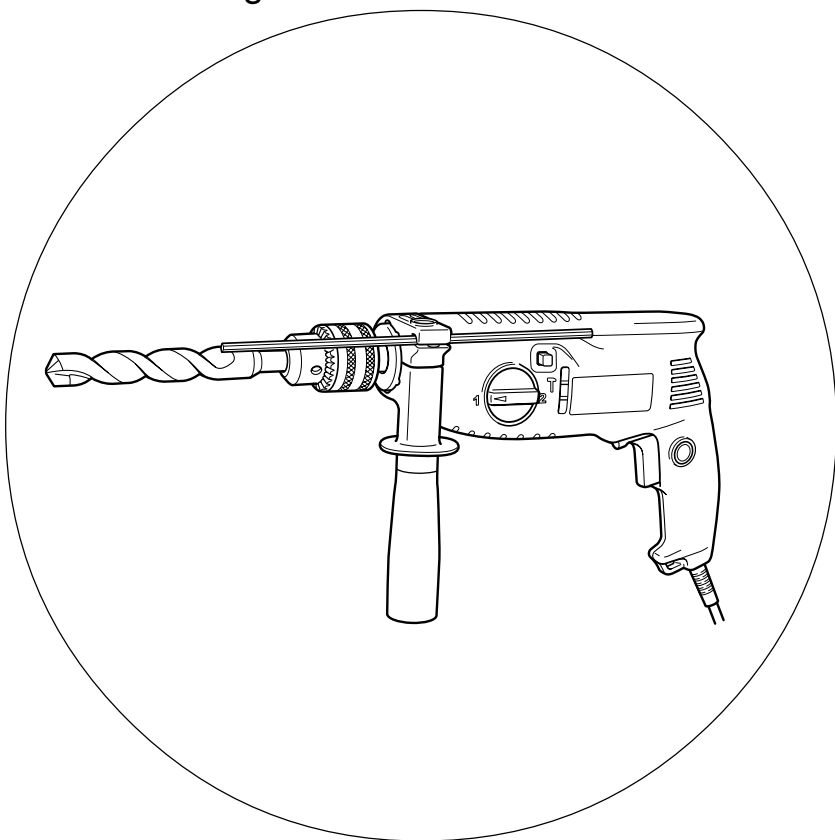


# HITACHI

## 日立牌冲击电钻 Impact Drill

### FDV 20VB

使用说明书  
Handling instructions

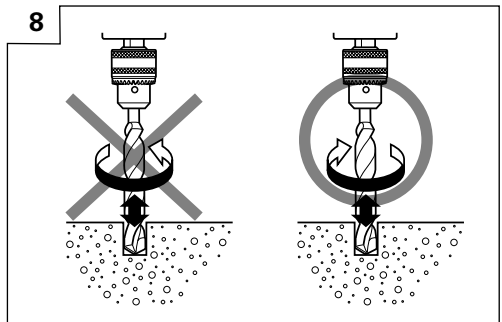
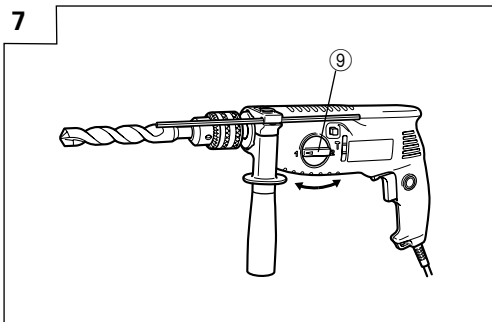
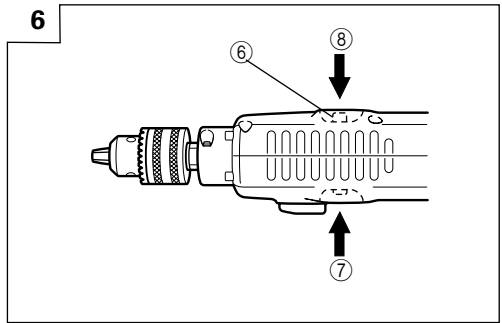
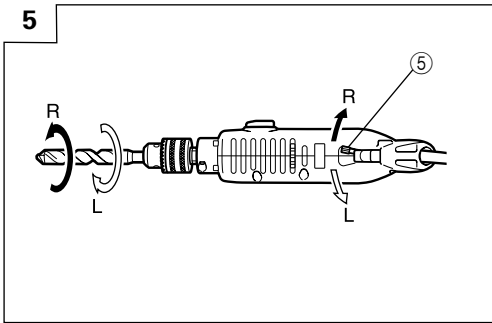
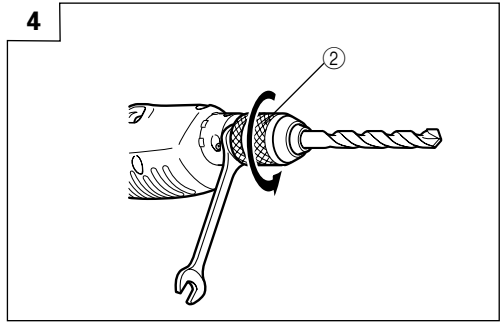
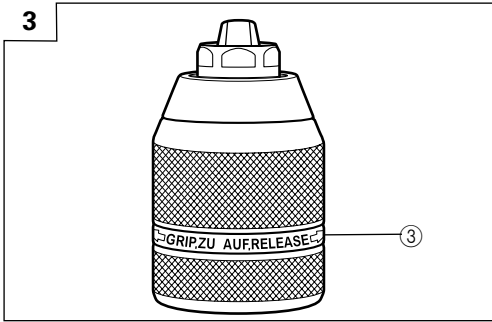
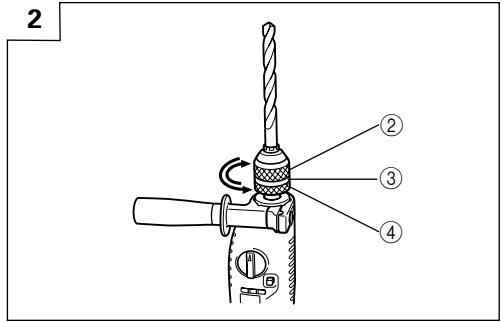
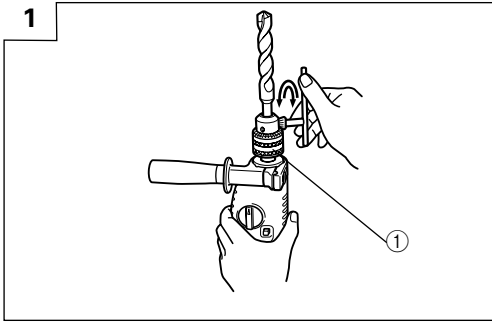


使用前务请详加阅读

Read through carefully and understand these instructions before use.

**Hitachi Koki**





①	带夹盘扳手的电钻卡盘	Drill chuck with chuck wrench
②	套管	Sleeve
③	锁紧轴环	Lock collar
④	扣环	Retaining ring
⑤	换向开关控制杆	Reversing switch lever
⑥	转换手柄	Change knob
⑦	旋钻 + 冲击	Rotation + Impact
⑧	旋钻	Rotation
⑨	换档控制杆	Gear shift lever

# 一般安全规则

## 警告！

### 阅读说明

没有按照以下列举的说明而使用或操作将导致触电、着火和/或严重伤害。

在所有以下列举的警告中术语“电动工具”指市电驱动（有线）电动工具或电池驱动（无线）电动工具。

### 保存这些说明

#### 1) 工作场地

- a) 保持工作场地清洁和明亮。  
混乱和黑暗的场地会引发事故。
- b) 不要在易爆环境，如有易燃液体、气体或粉尘的环境下操作电动工具。  
电动工具产生的火花会点燃粉尘或气体。
- c) 让儿童和旁观者离开后操纵电动工具。  
分心会使你放松控制。

#### 2) 电气安全

- a) 电动工具插头必须与插座相配。  
绝不能以任何方式改装插头。  
需接地的电动工具不能使用任何转换插头。  
未经改装的插头和相配的插座将减少触电危险。
- b) 避免人体接触接地表面，如管道、散热片和冰箱。  
如果你身体接地会增加触电危险。
- c) 不得将电动工具暴露在雨中或潮湿环境中。  
水进入电动工具将增加触电危险。
- d) 不得滥用电线。  
绝不能用电线搬运、拉动电动工具或拔出其插头。  
让电动工具远离热、油、锐边或运动部件。  
受损或缠绕的电线会增加触电危险。
- e) 当在户外使用电动工具时，使用适合户外使用的外接电线。  
适合户外使用的电线将减少触电危险。

#### 3) 人身安全

- a) 保持警觉，当操作电动工具时关注所从事的操作并保持清醒。  
切勿在有疲倦、药物、酒精或治疗反应下操作电动工具。  
在操作电动工具期间精力分散会导致严重人身伤害。
- b) 使用安全装置。始终配戴护目镜。  
安全装置，诸如适当条件下的防尘面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。
- c) 避免突然起动。  
确保开关在插入插头时处于关断位置。  
手指放在已接通电源的开关上或开关处于接通时插入插头可能会导致危险。

d) 在电动工具接通之前，拿掉所有调节钥匙或扳手。  
遗留在电动工具旋转零件上的扳手或钥匙会导致人身伤害。

e) 手不要伸得太长。  
时刻注意脚下和身体平衡。  
这样在意外情况下能很好地控制电动工具。

f) 着装适当。  
不要穿宽松衣服或佩带饰品。  
让你的头发、衣服和袖子远离运动部件。  
宽松衣服、佩饰或长发可能会卷入运动部件。

g) 如果提供了与排屑装置、集尘设备连接用的装置，则确保他们连接完好且使用得当。  
使用这些装置可减少碎屑引起的危险。

#### 4) 电动工具使用和注意事项

- a) 不要滥用电动工具，根据用途使用适当的电动工具。  
选用适当的设计额定值的电动工具会使你工作更有效、更安全。
- b) 如果开关不能接通或关断工具电源，则不能使用该电动工具。  
不能用开关来控制的电动工具是危险的且必须进行修理。
- c) 在进行任何调节、更换附件或贮存电动工具之前，必须从电源上拔掉插头和/或将电池盒断开电源。  
这种防护性措施将减少电动工具突然起动的危险。
- d) 将闲置电动工具贮存在儿童所及范围之外，并且不要让不熟悉电动工具或对这些说明不了解的人操作电动工具。  
电动工具在未经训练的用户手中是危险的。
- e) 保养电动工具。检查运动件的安装偏差或卡住、零件破损情况和影响电动工具运行的其他条件。  
如有损坏，电动工具必须在使用前修理好。  
许多事故由维护不良的电动工具引发。
- f) 保持切削刀具锋利和清洁。  
保养良好的有锋利切削刃的刀具不易卡住而且容易控制。
- g) 按照使用说明书以及打算使用的电动工具的特殊类型要求的方式，考虑作业条件和进行的作业来使用电动工具、附件和工具的刀头等。  
将电动工具用作那些与要求不符的操作可能会导致危险情况。

#### 5) 维修

- a) 将你的电动工具送交专业维修人员，必须使用同样的备件进行更换。  
这样将确保所维修的电动工具的安全性。

#### 注意事项

不可让儿童和体弱人士靠近工作场所。  
应将不使用的工具存放在儿童和体弱人士接触不到的地方。

## 使用冲击电钻时应注意事项

1. 使用冲击电钻时要戴好耳罩。  
暴露在噪声中会引起听力损伤。
2. 使用随工具提供的辅助手柄。  
操作失手会引起人身伤害。
3. 在钻入墙壁、天花板或地板之前，务必确认其中没有埋设电缆。

4. 当在 IMPACT（冲击）模式下钻混凝土或类似的坚硬材料时，请将钻头旋钻开关杆设到 R（右侧）。（图 8）
5. 请勿拧紧螺丝及螺帽、螺母等。拧紧后旋转部分会突然停止，不但机器会发生故障，还会使人受伤。

## 规格

电 压（按地区）*	（110 伏，115 伏，120 伏，127 伏，220 伏，230 伏，240 伏）∪		
输入功率*	750 瓦		
速度变化	1	2	
空载转速	0—1300/分		0—3000/分
能 力	钢 铁	13 毫米	8 毫米
	混 凝 土	20 毫米	13 毫米
	木 材	40 毫米	25 毫米
满载冲击率	15000 次/分		35000 次/分
重 量（不含线缆）	2.2 公斤		

\* 当须改变地区时应检查产品上的铭牌。

## 标准附件

- (1) 卡盘扳手（规格仅适用于装配了卡盘扳手的卡盘） ..... 1
  - (2) 边 柄 ..... 1
  - (3) 深度量规 ..... 1
  - (4) 塑 料 套 ..... 1
- 标准附件可能不预先通告而径予更改。

## 选购附件（分开销售）

- 冲击电钻钻头（用于混凝土）  
直径 3.2 mm - 20 mm

选购附件可能不预先通告而径予更改。

## 用 途

- 利用 ROTATION（旋钻）和 IMPACT（冲击）的组合动作：  
在坚硬材料（混凝土、大理石、花岗岩、瓷砖等）上钻孔。

- 利用 ROTATION（旋钻）动作：  
在金属、木材和塑料上钻孔。

## 作 业 之 前

1. 电源  
确认所使用的电源与产品名牌上标示的规格是否相符。
2. 电源开关  
确认电源开关是否切断。若电源开关接通，则插头插入电源插座时电动工具将出其不意地立刻转动，从而招致严重事故。
3. 延伸线缆  
若作业场所移到离开电源的地点，应使用容量足够、铠装合适的延伸线缆，并且要尽可能地短些。
4. 钻头的装配和拆卸

**对于带夹盘扳手的钻头夹盘**（图 1）

将钻头插入夹盘并用夹盘扳手固定之，通过转动三个孔口固定夹盘。

## 对于无键夹盘 (图 2、3)

### (1) 装配钻头

沿“AUF. RELEASE”方向转动锁紧轴环并打开夹盘。将钻头尽可能插入夹盘之后，沿“GRIP. ZU”方向转动锁紧轴环。夹紧扣环并通过顺时针（前视）转动套管关闭夹盘。

### (2) 拆卸钻头

沿“AUF. RELEASE”方向转动锁紧轴环以解除剥离力。夹紧扣环并通过逆时针转动套管关闭夹盘。

#### 注

如果拧不松套管，请将一普通扳手固定到轴上，握紧普通扳手，然后用手转动套管将其拧松。（图 4）

## 5. 选择合适的钻头

- 混凝土或石材…请使用“选购附件”一节中规定的钻头。
- 金属或塑料…使用通常的金属用钻头。
- 木材钻孔：使用通常的木工用钻头。但钻开直径 6.5 毫米或更小的孔口时，宜使用金属用钻头。

## 6. 确认钻头旋转方向 (图 5)

按换向开关控制杆的 R（右）侧时，钻头顺时针（从后面看）转动。而按该控制杆的 L（左）侧时，钻头逆时针（从后面看）转动。

#### 注意

- 绝不能在钻头旋转期间改变其转动方向。在改变钻头转动方向之前，要把电源开关打到关位置。否则，马达会烧掉。
- 当把它作为冲击式电钻时，总是在顺时针方向使用。

## 7. 边柄的装配

先将边柄插在连接部。然后，按顺时针方向旋转边柄扣，将边柄固定住。请将边柄设在适合于操作的位置，然后旋紧边柄扣。

## 8. 冲击式到旋转式的转换 (图 6)

只要简单地滑动转换手柄，就能把冲击式电钻从冲击式（冲击加旋转）转换为旋转式（只旋转）。当钻水泥、石头、砖瓦或类似的板材时，将转换手柄向右滑。钻头在旋转的同时对所钻的材料进行冲击。当钻金属、木头或塑胶时，把转换手柄滑到最左端。此钻便象通常电钻一样只是旋转。

#### 注意

若被钻的材料用平常的只旋转的方式就能钻，就不要用冲击方式。因为这种功能不仅会降低钻的效率，而且容易损坏钻头。当转换时，要保证将转换手柄滑到头。

## 9. 高速/低速的转换

要改变速度，如图 7 中箭头所示转动换档控制杆。刻在钻机上的数码“1”表示低速，数码“2”表示高速。

## 实际操作步骤

### 1. 速度调节和开关操作

- 通过控制起动器的压力，可以将钻机的速度从 0 调至最大。对起动器的压力越大，钻机便钻得越快。当起动器被完全压下时，转速最大。
- 拉起动器开关并推制动物器，保持开关合上状态，便于连续运转。当开关断开时，通过再次拉起动器，制动物器便可释放。

#### 注意

在木材上开孔时，请用全速度开孔。

### 2. 作为电钻或冲击电钻使用时

- (1) 钻机的压力  
即使您用必要以上的强力按压钻机，也不能加快钻孔速度。这样不仅损伤钻头尖，降低工作效率，还会缩短钻头尖的使用寿命。
- (2) 穿孔时  
当被钻的物体被钻穿时，钻头可能被损坏。在穿孔之前一定要降低压力。

#### 注意

在连续运转中，完成钻孔工作后，还会进行 5 秒钟无负荷运转。

### (3) 使用粗钻头时

使用粗钻头时您的手臂会承受更大反作用力。小心不要被反作用力推得移动位置。为此，请找好立脚点，用双手握紧钻机，垂直对着被钻物体。

### 3. 使用大口径钻头

钻头口径越大，手上受到的反力也越大，因而必需注意会不会因反力过大而失去控制。为了获得良好的控制，脚步要站稳，并用双手牢牢地握住钻机。同时，钻头与被钻面要保持垂直。

#### 4. 进行穿孔作业时

穿孔作业时，常因操作不慎使钻机突然移动而损坏钻头或钻机主体。因此，必需提高警觉准备随时放松推力。

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## 维护和检查

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#### 1. 检查钻头

继续使用已磨损或损伤的钻头，不仅使工作效率大为降低，同时又会导致电动机过载。因此，钻头必须时常检查，并根据情况需要换新件。

#### 2. 检查安装螺钉

要经常检查安装螺钉是否紧固妥善。若发现螺钉松了，应立即重新扭紧，否则会导致严重的事故。

#### 3. 电动机的维护

电动机绕线是电动工具的“心脏”。应仔细检查有无损伤，是否被油液或水沾湿。

#### 4. 维修

电动工具一旦发生任何异常，应毫不迟疑地商询服务中心。

#### 5. 维修零部件一览表

- A：项目号
- B：代码号
- C：使用数
- D：备注

#### 注意：

日立牌电动工具的维修、改造和检查须由经日立公司授权的维修中心进行。

当要求维修或其他保养服务时，若将此零部件一览表与电动工具一起呈交给经日立公司授权的维修中心，将有助于维修或保养工作。

在操作和维修电动工具时，必须遵守贵国制定的安全的有关规则和标准。

#### 改造

日立牌电动工具经常加以改善和改造以采用最新的先进技术。

因此，某些零部件〔例如代码号和（或）设计〕可能变更，恕不另行通知。

注：为求改进，本手册所载规格可能不预先通告而径予更改。



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## GENERAL SAFETY RULES

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### WARNING!

#### Read all instructions

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

### SAVE THESE INSTRUCTIONS

#### 1) Work area

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

#### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way.**  
**Do not use any adapter plugs with earthed (grounded) power tools.**  
*Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.**  
*There is an increased risk of electric shock if your body is earthed or grounded.*
- c) **Do not expose power tools to rain or wet conditions.**  
*Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.**  
*Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.**  
*Use of a cord suitable for outdoor use reduces the risk of electric shock.*

#### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.**  
*A moment of inattention while operating power tools may result in serious personal injury.*
- b) **Use safety equipment. Always wear eye protection.**  
*Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Avoid accidental starting. Ensure the switch is in the off position before plugging in.**  
*Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.*
- d) **Remove any adjusting key or wrench before turning the power tool on.**

*A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

- e) **Do not overreach. Keep proper footing and balance at all times.**  
*This enables better control of the power tool in unexpected situations.*
  - f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.**  
*Loose clothes, jewellery or long hair can be caught in moving parts.*
  - g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.**  
*Use of these devices can reduce dust related hazards.*
- #### 4) Power tool use and care
- a) **Do not force the power tool. Use the correct power tool for your application.**  
*The correct power tool will do the job better and safer at the rate for which it was designed.*
  - b) **Do not use the power tool if the switch does not turn it on and off.**  
*Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
  - c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.**  
*Such preventive safety measures reduce the risk of starting the power tool accidentally.*
  - d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**  
*Power tools are dangerous in the hands of untrained users.*
  - e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.**  
**If damaged, have the power tool repaired before use.**  
*Many accidents are caused by poorly maintained power tools.*
  - f) **Keep cutting tools sharp and clean.**  
*Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
  - g) **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.**  
*Use of the power tool for operations different from intended could result in a hazardous situation.*

#### 5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.**  
*This will ensure that the safety of the power tool is maintained.*

### PRECAUTION

Keep children and infirm persons away. When not in use, tools should be stored out of reach of children and infirm persons.

## PRECAUTIONS ON USING IMPACT DRILL

- Wear ear protectors with impact drills.**  
Exposure to noise can cause hearing loss.
- Use auxiliary handles supplied with the tool.**  
Loss of control can cause personal injury.
- Before drilling into walls, ceilings or floors, ensure that there are no concealed power cables inside.
- When boring concrete or similar hard materials in IMPACT mode, set the bit rotation switch lever to the R-side. (Fig. 8)
- Avoid tightening work of screws, bolts, and nuts; otherwise, rotating sections may be stopped all of a sudden, resulting in the malfunction of the main body and risk of injury.

## SPECIFICATIONS

Voltage (by areas)*	(110V, 115V, 120V, 127V, 220V, 230V, 240V) ∪		
Power input	750 W*		
Speed change	1	2	
No load speed	0-1300 / min	0-3000 / min	
Capacity	Steel	13 mm	8 mm
	Concrete	20 mm	13 mm
	Wood	40 mm	25 mm
Full load impact rate	15000 / min	35000 / min	
Weight (without cord)	2.2 kg		

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

## STANDARD ACCESSORIES

- Chuck Wrench (Spec. only for chuck fitted with chuck wrench)..... 1
  - Side Handle..... 1
  - Depth Gauge..... 1
  - Plastic Case..... 1
- Standard accessories are subject to change without notice.

## OPTIONAL ACCESSORIES (sold separately)

- Impact Drill Bit (for concrete)  
3.2 mm – 20 mm dia.
- Optional accessories are subject to change without notice.

## APPLICATIONS

- By combined actions of ROTATION and IMPACT:  
Boring holes in hard materials (concrete, marble, granite, tiles, etc.)
- By ROTATIONAL action:  
Boring holes in metal, wood and plastic.

## PRIOR TO OPERATION

- Power source**  
Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
- 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.
- 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. Mounting and dismounting of the bit

### For Drill chuck with chuck wrench (Fig. 1)

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.

### For keyless chuck (Fig. 2, 3)

- Mounting the bit  
Turn the lock collar in the direction "AUF. RELEASE" and open the chuck. After Inserting the drill bit Into the chuck as far it will go, turn the lock collar in the "GRIP. ZU" direction. Grip the retaining ring and close the chuck by turning the sleeve clockwise as viewed from the front.
- Dismounting the bit  
Turn the lock collar in the direction "AUF. RELEASE" to release the shucking force. Grip the retaining ring and open the chuck by turning the sleeve counterclockwise.

### NOTE

When the sleeve does not become loose any further, fix a regular spanner to spindle, hold regular spanner firmly, then turn the sleeve to loosen by hand. (Fig. 4)

## 5. Selecting the appropriate drill bit

- When boring concrete or stone  
Use the drill bits specified in the Optional Accessories.
  - When boring metal or plastic  
Use an ordinary metalworking drill bit.
  - When boring wood  
Use an ordinary woodworking drill bit. However, when drilling 6.5 mm or smaller holes, use a metalworking drill bit.
- Confirm the direction of bit rotation (Fig. 5)**  
The bit rotates clockwise (viewed from the rear side) by pushing the R-side of the reversing switch lever. The L-side of the lever is pushed to turn the bit counterclockwise.

## CAUTION

- Never change the direction of bit rotation during operation.  
Turn the power switch OFF before changing the direction of bit rotation; otherwise, the motor will burn.
- Always use with clockwise rotation, when using it as an impact drill.

## 7. Side handle attachment

Attach the side handle to the mounting part. Rotate the side handle grip in a clockwise direction to secure it.

Set the side handle to a position that is suited to the operation and then securely tighten the side handle grip.

## 8. IMPACT to ROTATION changeover (Fig. 6)

The impact drill can be switched from IMPACT (impact plus rotation) to ROTATION (rotation only) by simply sliding the change knob. When boring concrete, stone, tile or similar board materials, slide the change knob right. The drill head impacts against the material while continuing to rotate.

When boring metal, wood or plastic, slide the change knob fully to the left. The drill simply rotates as an ordinary electric drill.

## CAUTION

Do not use the impact drill in the IMPACT mode if the material can be bored by rotation only. Such action will not only reduce drill efficiency, but may also damage the drill tip.

When changing over, ensure the change knob is slide as far as it will go.

## 9. High-speed/Low-speed changeover

To change speed, rotate the gear shift lever as indicated by the arrow in Fig. 7. The numeral "1" engraved on the drill body denotes low speed, the numeral "2" denotes high speed.

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## PRACTICAL HANDLING PROCEDURES

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### 1. Speed adjustment and switch operation

- The drill speed can be adjusted from 0 through full speed by regulating the trigger-squeezing force. The more the trigger is squeezed, the faster the drill rotates. When the trigger is squeezed fully, the speed is the maximum.
- Pulling the trigger switch and pushing the stopper, keeps the switched-on condition which is convenient for continuous running. When switching off, the stopper can be disconnected by pulling the trigger again.

## CAUTION

Drill at a maximum rotation speed when drilling wooden materials.

### 2. When using as a Drill or an Impact Drill

- (1) Pressing force of the drill  
You cannot drill holes more quickly even if you press the drill with a stronger force than necessary. It not only damages tip of drill bit and decreases the efficiency of operation, but also shortens the life of the drill tip.
- (2) In case of penetrating holes  
Drill bits can be broken when the material being drilled is penetrated. It is important to decrease pressing force just before penetrating.

## CAUTION

In continuous operation, conduct no-load operation for five seconds after completing a drilling job.

- (3) When a thick drill bit is used  
Your arm is subjected to larger reaction force when a thicker drill bit is used. Be careful not to be moved by the reaction force. For this, establish a foothold, hold the unit tightly with both hands perpendicularly to the material being drilled.
3. Using a large diameter drill bit  
The larger the drill bit diameter, the larger the reactive force on your arm. Be careful not to lose control of the drill because of this reactive force. To maintain firm control, establish a good foothold, hold the drill tightly with both hands, and ensure that the drill is vertical to the material being drilled.
4. 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 pushing force when drilling through the material.

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## MAINTENANCE AND INSPECTION

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### 1. Inspecting the drill bit

Continued use of a worn and/or damaged drill bit will result in reduced drilling efficiency and may seriously overload the drill motor. Inspect the drill bit frequently and replace it as necessary.

### 2. 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.

### 3. 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.

### 4. Servicing

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

### 5. Service parts list

A : Item No.  
B : Code No.  
C : No. Used  
D : Remarks

## CAUTION

Repair, modification and inspection of Hitachi Power Tools must be carried out by an Authorized Service Center.

This Parts List will be helpful if presented with the power tool to the Authorized Service Center when requesting repair or other maintenance.

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

## MODIFICATIONS

Hitachi Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

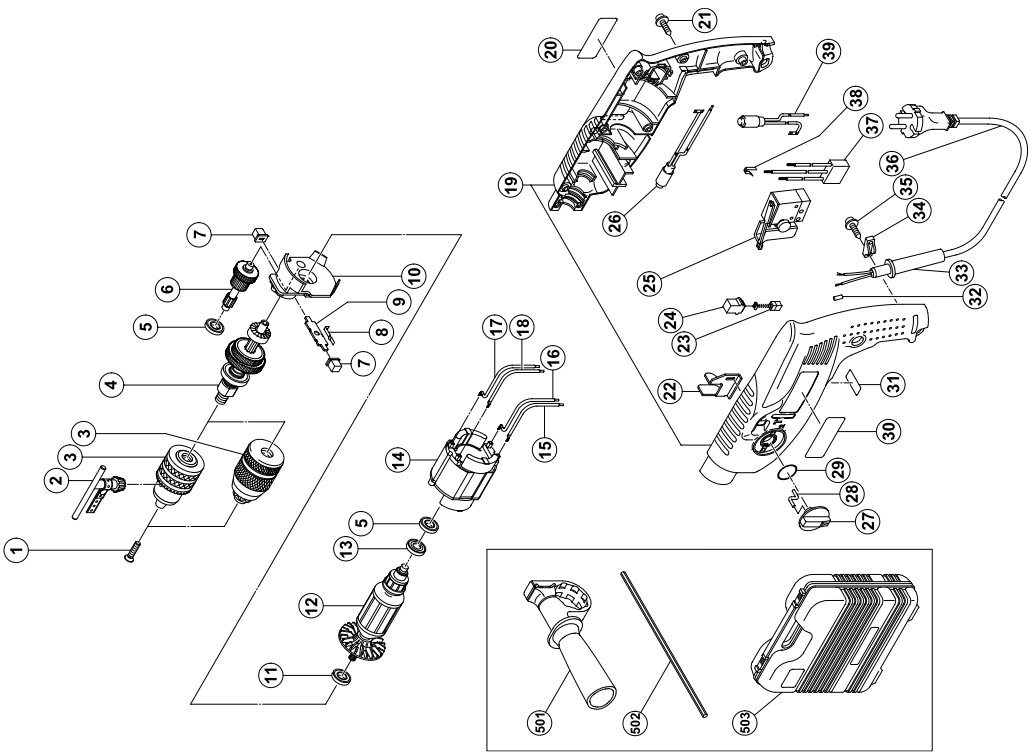
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**NOTE**

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

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A	B	C	D
1	995344	1	M6x25
2	987576	1	
3-1	319546	1	13VLRB-D "2"
3-2	319601	1	13VLRB-N
4	608VVM	2	608VVC2PS2L
5	319605	1	
6	319604	2	
7	963226	1	
8	319603	1	
9	319602	1	
10	608DDM	1	608DDC2PS2L
11	360548U	1	110V-115V "5, 11, 13"
12-1	360548E	1	220V-230V
12-2	360548F	1	240V
12-3	360548F	1	
13	319609	1	110V-115V
14-1	340496C	1	220V-230V
14-2	340496E	1	240V
14-3	340496F	1	
15	303655	1	
16	319612	1	
17	319611	1	
18	303656	1	
19-1	319644	1	MOSS GREEN
19-2	319615	1	OFF BLACK GREEN
20		1	
21	302086	9	D4x20
22	319607	1	
23	999041	2	
24	955203	2	
25-1	314916	1	100V-115V
25-2	314921	1	220V-240V
26	319643	1	
27	319606	1	
28	319608	1	
29	875638	1	
30		1	S-12
31		1	
32	981373	2	
33	303662	1	D8.8
34	960266	1	
35	305812	2	D4x16
36	500409Z	2	
37	994273	1	
38	302488	1	
39	319642	1	
501	303659	1	
502	303709	1	
503	319616	1	



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