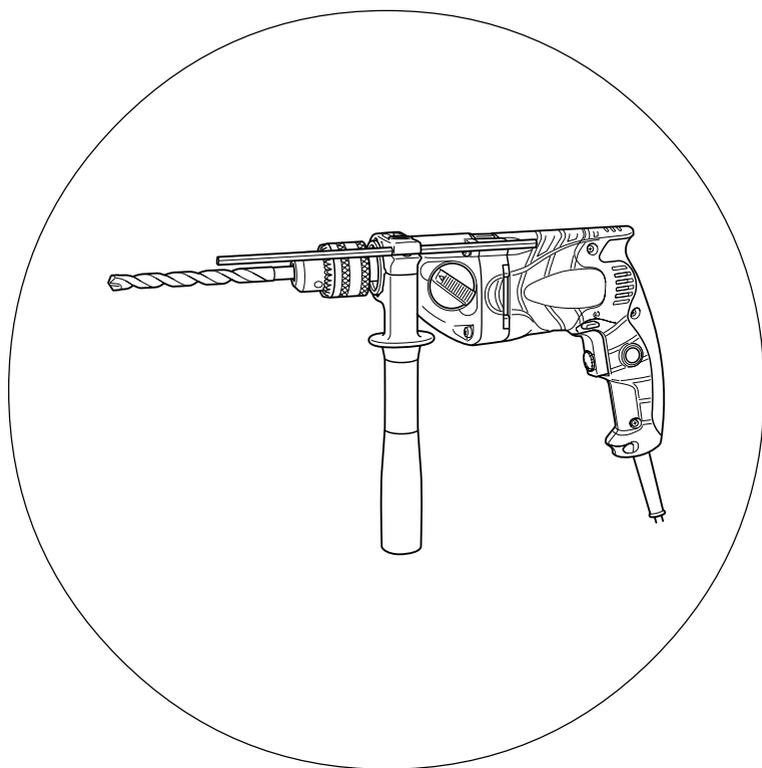


HITACHI

冲击电钻 Impact Drill

DV 18V

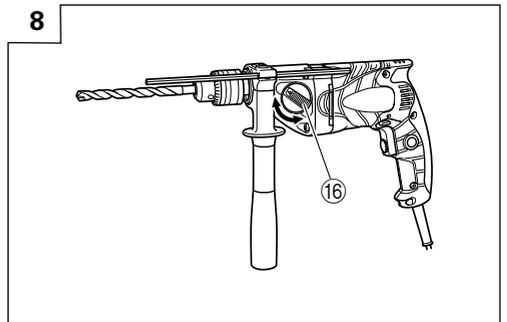
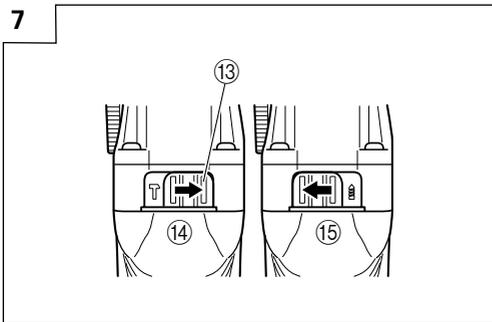
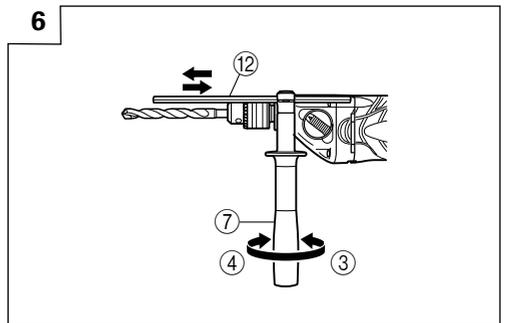
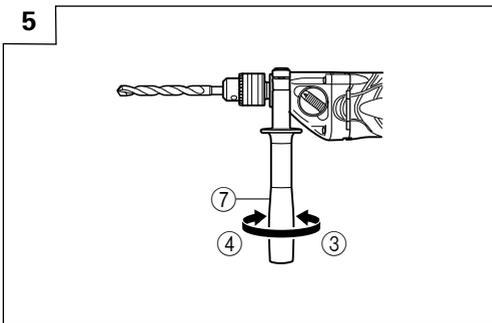
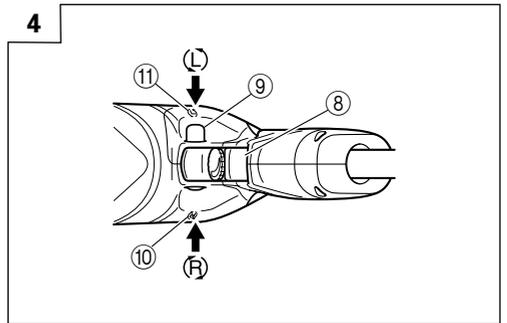
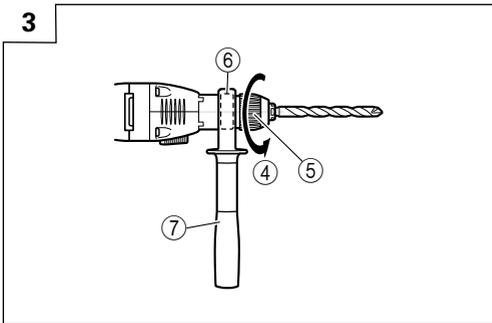
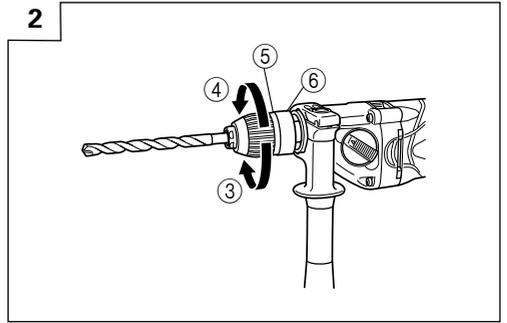
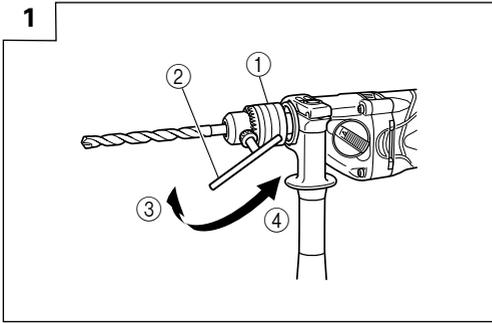
使用说明书
Handling instructions

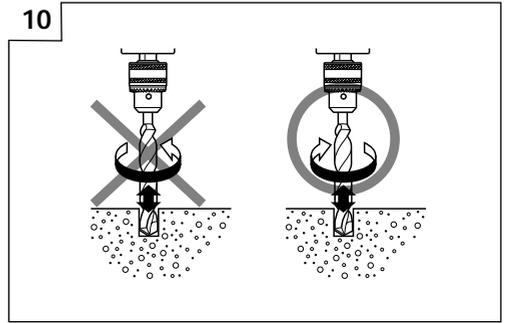
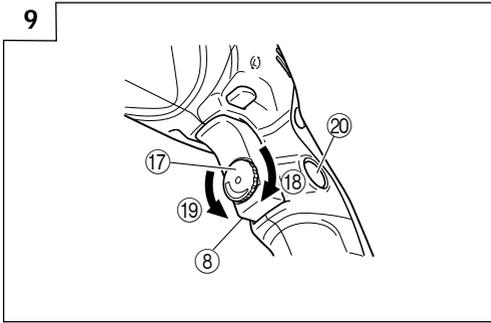


使用前务请详加阅读

Read through carefully and understand these instructions before use.

Hitachi Koki





①	电钻卡盘	Drill chuck
②	卡盘扳手	Chuck wrench
③	拧紧	Tighten
④	松开	Loosen
⑤	套管	Sleeve
⑥	扣环	Retaining ring
⑦	边柄	Side handle
⑧	起动器开关	Switch trigger
⑨	按钮	Push button
⑩	(R) (右侧) 标记	(R) mark
⑪	(L) (左侧) 标记	(L) mark
⑫	深度计	Depth gauge
⑬	变速杆	Change lever
⑭	冲击	Impact
⑮	旋转	Rotation
⑯	变速转盘	Gear shift dial
⑰	速度控制拨盘	Speed control dial
⑱	高速	High speed
⑲	低速	Low speed
⑳	止动器	Stopper

	<p>标志 警告</p> <p>以下显示的是本机器中使用的标志，请确保您在使用前理解它们的含义。</p>	<p>Symbols ⚠ WARNING</p> <p>The following show symbols used for the machine. Be sure that you understand their meaning before use.</p>
	<p>为降低伤害风险，用户必须阅读使用说明书</p>	<p>To reduce the risk of injury, user must read instruction manual.</p>

电动工具通用安全警告

⚠ 警告！

阅读所有警告和所有说明。不遵照以下警告和说明会导致电击、着火和/或严重伤害。

保存所有警告和说明书以备查阅。

在所有下列的警告中术语“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。

1) 工作场地的安全

- 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作电动工具。注意力不集中会使操作者失去对工具的控制。

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电击危险。
- 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电击危险。
- 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电击危险。
- 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。使电线远离热源、油、锐边或运动部件。受损或缠绕的软线会增加电击危险。
- e) 当在户外使用电动工具时，使用适合户外使用的外接软线。适合户外使用的软线将减少电击危险。
- f) 如果在潮湿环境下操作电动工具是不可避免的，应使用剩余电流动作保护器（RCD）。使用RCD可减小电击危险。

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。当你感到疲倦，或在有药物、酒精或治疗反应时，不要操作电动工具。在操作电动工具时瞬间的疏忽会导致严重人身伤害。
- b) 使用个人防护装置。始终佩戴护目镜。安全装置，诸如适当条件下使用防生面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。

- c) 防止意外起动。确保开关在连接电源和/或电池盒、拿起或搬运工具时处于关断位置。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) 手不要伸展得太长。时刻注意立足点和身体平衡。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戴饰品。让衣服、手套和头发远离运动部件。宽松衣服、佩饰或长发可能会卷入运动部件中。
 - g) 如果提供了与排屑、集尘设备连接用的装置，要确保它们连接完好且使用得当。使用这些装置可减少尘屑引起的危险。
- ### 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。选用适当设计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/或使电池盒与工具脱开。这种防护性措施将减少工具意外起动的危险。
 - d) 将闲置不用的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。电动工具在未经培训的用户手中是危险的。
 - e) 保养电动工具。检查运动件是否调整到位或卡住，检查零件破损情况和影响电动工具运行的其他状况。如有损坏，电动工具应在使用前修理好。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，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。将电动工具用于那些与其用途不符的操作可能会导致危险。
- ### 5) 维修
- a) 将你的电动工具送交专业维修人员，使用同样的备件进行修理。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. 当在钻削附件可能触及暗线或其自身软线之处进行操作时，要通过绝缘握持面来握持工具。
钻削附件碰到带电导线会使工具外露的金属零件带电从而使操作者受到电击。
4. 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。
5. 在将此电钻用作冲击电钻时，请总是以顺时针旋转来使用冲击电钻。（图 10）

规格

电压（按地区）*	(110 伏, 220 伏, 230 伏, 240 伏) ~		
输入功率	690 瓦*		
改变速度	1		2
空载转速	前 向	0 - 1000 / 分	0 - 3000 / 分
	后 向	0 - 600 / 分	0 - 1800 / 分
能 力	钢 铁	13 毫米	8 毫米
	混凝土	18 毫米	13 毫米
	木 材	40 毫米	25 毫米
满载冲击率	8400 / 分		27300 / 分
重 量（不含线缆）	2.0 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（此规格仅适用于键控卡盘） 1
- (2) 边柄 1
- (3) 深度量规 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）

- (1) 冲击电钻钻头（用于混凝土）
直径 3.2 毫米 - 18 毫米

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铭牌上标示的规格相符。
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. 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。

5. 钻头的装配和拆卸

关于带键夹盘 (图 1)

- (1) 打开夹盘钳夹，并将钻头插入夹盘。
- (2) 将卡盘扳手分别放在夹盘的两个孔之上，并将其沿顺时针方向旋转（前视），使之固定。
- (3) 要拆卸钻头时，将卡盘扳手放入夹盘上的一个孔中，并将其沿逆时针方向转动。

关于无键夹盘 (图 2)

- (1) 安装钻头
逆时针旋转套管，打开卡盘。尽可能深地将电转钻头插入卡盘后，抓住扣环，然后按从前面看顺时针的方向旋转套管以关上卡盘。
- (2) 取下钻头
抓住扣环，然后按逆时针的方向旋转套管以打开卡盘。

注：

当套管变得不再松动时，把边柄固定到扣环上，紧握边柄，然后用手旋转套管直到松开。(图 3)

6. 确认钻头旋转方向 (图 4)

按下按键的 R (右) 侧可使钻头沿顺时针方向（前视）旋转；按下按键的 L (左) 侧可使钻头沿逆时针方向旋转。

(机身上有 **L** 和 **R** 标记。)

注意：

在将此电钻用作冲击电钻时，请总是以顺时针旋转来使用冲击电钻。

7. 装配边柄 (图 5)

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。

要将深度表安装在边柄上时，请将深度表插入边柄上的 U 形槽内，并根据所需孔深来调节深度表的位置，然后旋紧边柄扣。(图 6)

8. 冲击式到旋转式的转换 (图 7)

在右侧和左侧位置之间移动转换手柄，以在冲击式（冲击加旋转）和旋转式（只旋转）之间转换。

当在水泥、石头和砖瓦等硬质材料上钻孔时，请将转换手柄移到右侧位置（如 **T** 标记所示）。钻头组合冲击和旋转两种方式工作。

在金属、木材和塑料上钻孔时，请将转换手柄移到左侧位置（如 **⚡** 标记所示）。钻头象普通电钻一样只是旋转。

注意：

- 若被钻的材料用平常的只旋转的方式就能钻，就不要用冲击效能。因为这种功能不仅会降低钻的效率，而且容易损坏钻头。
- 在转换手柄处于中间位置的状态下使用冲击电钻可能导致危险发生。转换时，请务必将转换手柄移到正确位置。

9. 高低速换挡：

换挡前，应先确认电源开关是否入“切断”位，且电钻是否完全停止转动。按图 8 中箭头所示旋转变速转盘以改变速度。

如果很难转动变速转盘，朝任一方向轻轻转动卡盘，然后再转动变速转盘。刻在电钻壳体上的“1”为低速，“2”为高速。

如果很难转动变速转盘，朝任一方向轻轻转动卡盘，然后再转动变速转盘。

使用方法

1. 开关操作

- 按下起动机时，电钻旋转；松开起动机时，电钻停止。
- 改变拉起起动机开关的程度可以控制电钻的转速。轻拉起起动机开关转速较慢，进一步拉起起动机开关则转速变快。
- 可以用速度控制拨盘预选所需的旋转速度。顺时针转动速度控制拨盘提高速度，逆时针转动降低速度。(图 9)
- 拉起起动机并推制动器，保持开关合上状态，便于连续运转。当开关断开时，再次拉起起动机便可释放制动器。

注意：

如果按下按钮的 L (左) 侧以使钻头反向旋转，制动器将无法使用。

2. 钻孔

- 钻孔时，请慢慢起动机电钻，并逐渐提高转速。

- 总是保持对钻头施加垂直的压力。钻孔时要保持足够的压力，但不要过分用力按压而导致马达停转或使钻头偏斜。
- 要尽量减少停转或损坏材料时，请减少对钻头施加的压力并在穿孔前降低压力。
- 如果电钻停转，则立即释放起动器，从工件上取出钻头并重新开始钻孔。请勿按下和松开起动器以试图起动已停转的电钻，否则会损坏电钻。
- 钻头口径越大，手臂受到的反作用力也越大。必须注意不要因反作用力而失去对电钻的控制。为了获得良好的控制，脚步要站稳，使用边柄，用双手握紧钻机，确保钻头与被钻面保持垂直。

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。

维护和检查

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“心脏部”。应仔细检查有无损伤，是否被油液或水沾湿。

4. 检查碳刷

为了保证长期安全操作和防止触电，必须仅由经授权的日立维修服务中心检查和更换碳刷。

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。

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING

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.

1) Work area safety

- a) **Keep work area clean and well lit.**
Cluttered or 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 or 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.
- f) **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.

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 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.
- c) **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.

- 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 dust collection 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 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.
 - 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 tool's 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, 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.

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

1. **Wear ear protectors with impact drills.**
Exposure to noise can cause hearing loss.
2. **Use auxiliary handles supplied with the tool.**
Loss of control can cause personal injury.

SPECIFICATIONS

Voltage (by areas)*	(110 V, 220 V, 230 V, 240 V) ~		
Power input	690 W*		
Speed change	1	2	
No load speed	Forward rotation	0 - 1000/min	0 - 3000/min
	Reverse rotation	0 - 600/min	0 - 1800/min
Capacity	Steel	13 mm	8 mm
	Concrete	18 mm	13 mm
	Wood	40 mm	25 mm
Full load impact rate	8400/min	27300/min	
Weight (without cord)	2.0 kg		

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

STANDARD ACCESSORIES

- (1) Chuck Wrench (Spec. only for keyed chuck) 1
 - (2) Side Handle 1
 - (3) Depth Gauge 1
- Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)

- (1) Impact Drill Bit (for concrete)
3.2 mm - 18 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

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.

3. **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. Before drilling into walls, ceilings or floors, ensure that there are no concealed power cables inside.
5. Always use the impact drill with clockwise rotation, when using it as an impact drill. (Fig. 10)

4. 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.

5. Mounting and dismounting of the bit

For keyed chuck (Fig. 1)

- (1) Open the chuck jaws, and insert the bit into the chuck.
- (2) Place the chuck wrench in each of the three holes in the chuck, and turn it in the clockwise direction (viewed from the front side). Tighten securely.
- (3) To remove the bit, place the chuck wrench into one of the holes in the chuck and turn it in the counter-clockwise direction.

For keyless chuck (Fig. 2)

- (1) Mounting the bit
Turn the sleeve counterclockwise and open the chuck. After inserting the drill bit into the chuck as far it will go, grip the ring and close the chuck by turning the sleeve clockwise as viewed from the front.
- (2) Dismounting the bit
Grip the ring and open the chuck by turning the sleeve counterclockwise.

NOTE

- When the sleeve does not become loose any further, fix the side handle to ring, hold side handle firmly, then turn the sleeve to loosen by hand. (Fig. 3)
6. **Check the rotational direction (Fig. 4)**
The bit rotates clockwise (viewed from the rear side) by pushing the R-side of the push button.
The L-side of the push button is pushed to turn the bit counterclockwise.
(The (L) and (R) marks are provided on the body.)

CAUTION:

Always use the impact drill with clockwise rotation, when using it as an impact drill.

7. Fixing the side handle (Fig. 5)

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.

To attach a depth gauge on the side handle, insert the gauge into the U-shaped groove on the side handle, adjust the position of the depth gauge in accordance with the desired depth of the hole, and firmly tighten the side handle grip. (Fig. 6)

8. IMPACT to ROTATION changeover (Fig. 7)

Shift the change lever between the right and left positions to switch easily between IMPACT (rotation and impact) and ROTATION (rotation only), respectively. To bore holes in hard materials such as concrete, stone and tiles, shift the change lever to the right-hand position (as indicated by the **T** mark). The drill bit operates by the combined actions of impact and rotation.

To bore holes in metal, wood and plastic, shift the change lever to the left-hand position (as indicated by the **2** mark). The drill bit operates by rotational action only, as in the case of a conventional electric drill.

CAUTION:

- Do not use the impact drill in the IMPACT function if the material can be bored by rotation only. Such action will not only reduce drill efficiency, but may also damage the drill tip.
- Operating the impact drill with the change lever in mid-position may result in damage. When switching, make sure that you shift the change lever to the correct position.

9. High-speed/Low-speed changeover:

Prior to changing speed, ensure that the switch is in the OFF position, and the drill has come to a complete stop. To change speed, rotate the gear shift dial as indicated by the arrow in Fig. 8. The numeral "1" engraved on the drill body denotes low speed, the numeral "2" denotes high speed.

If it is hard to turn the gear shift dial, turn the chuck slightly in either direction and then turn the gear shift dial again.

HOW TO USE

1. Switch operation

- When the trigger is depressed, the tool rotates. When the trigger is released, the tool stops.
- The rotational speed of the drill can be controlled by varying the amount that the trigger switch is pulled. Speed is low when the trigger switch is pulled slightly and increases as the trigger switch is pulled more.
- The desired rotation speed can be pre-selected with the speed control dial.
Turn the speed control dial clockwise for higher speed and counterclockwise for lower speed. (Fig. 9)
- Pulling the trigger and pushing the stopper, it 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:

If the L-side of push button is pressed for reverse bit rotation, the stopper cannot be used.

2. Drilling

- When drilling, start the drill slowly, and gradually increasing speed as you drill.
- Always apply pressure in a straight line with the bit. Use enough pressure to keep drilling, but do not push hard enough to stall the motor or deflect the bit.
- To minimize stalling or breaking through the material, reduce pressure on drill and ease the bit through the last part of the hole.
- If the drill stalls, release the trigger immediately, remove the bit from the work and start again. Do not click the trigger on and off in an attempt to start a stalled drill. This can damage the drill.
- 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, use side handle, hold the drill tightly with both hands, and ensure that the drill is vertical to the material being drilled.

MAINTENANCE AND INSPECTION

1. Inspecting the drill bits

Since use of an abraded drill bits will cause motor malfunctioning and degraded efficiency, replace the drill bits 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 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. Inspecting the carbon brushes

For your continued safety and electrical shock protection, carbon brush inspection and replacement on this tool should ONLY be performed by a Hitachi Authorized Service Center.

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.

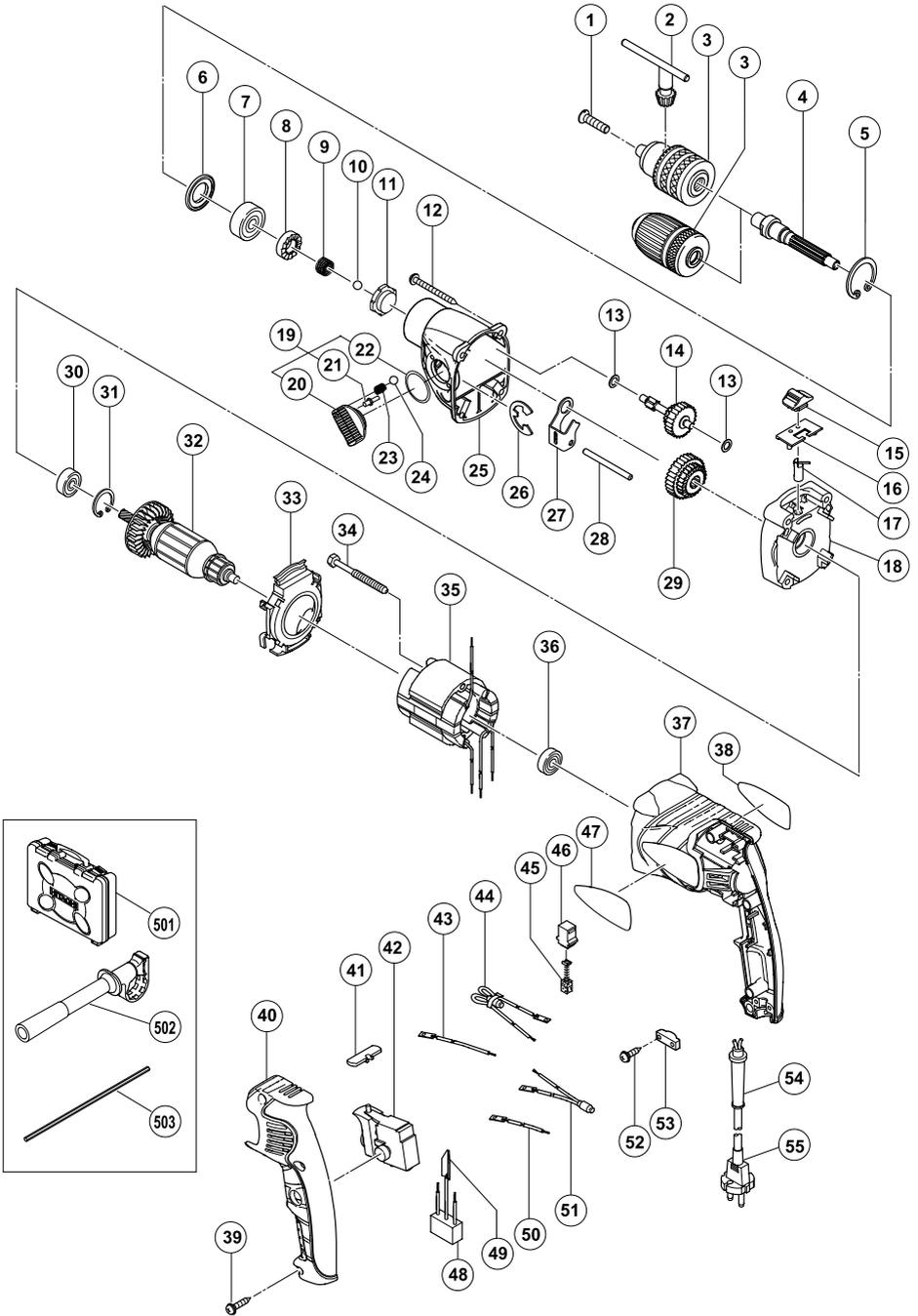
MODIFICATIONS

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.

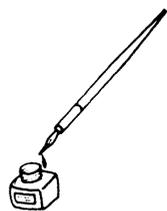
NOTE:

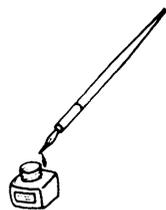
Due to HITACHI's continuing program of research and development, the specifications herein are subject to change without prior notice.



A	B	C	D
1	995-344	1	M6×25
2	987-576	1	
3 1	321-814	1	13VLRB-D
3 2	322-357	1	13VLRH-N
4	322-857	1	
5	939-556	1	
6	322-851	1	
7	620-2DD	1	6202DDCMPS2L
8	322-850	1	
9	984-101	1	
10	959-150	1	D6.35
11	322-845	1	
12	316-321	4	D5×45
13	322-852	2	
14	322-858	1	
15	322-841	1	
16	322-842	1	
17	322-840	1	
18	322-859	1	
19	322-847	1	"20-22"
20	—	1	
21	322-848	1	
22	306-353	1	S-22
23	981-328	1	
24	319-535	1	D3.5
25	322-844	1	"11"
26	—		
27	322-849	1	
28	322-860	1	D5
29	322-846	1	
30	608-DDM	1	608DDC2PS2L
31	939-553	1	
32 1	360-654C	1	110V
32 2	360-654E	1	220V-230V
32 3	360-654F	1	240V
33	322-843	1	
34	981-824	2	D4×45
35 1	340-589C	1	110V
35 2	340-589E	1	220V-230V
35 3	340-589F	1	240V
36	608-VVM	1	608VVC2PS2L
37	322-861	1	
38	—	1	
39	301-653	3	D4×20
40	322-862	1	
41	322-853	1	
42	322-854	1	
43	321-630	1	100L
44 1	322-517	1	220V-240V
44 2	322-518	1	"GBR (110V)"
45	999-041	2	
46	955-203	2	
47	—	1	
48	994-273	1	
49	992-635	1	
50	321-631	1	55L

A	B	C	D
51 1	321-634	1	110V-240V
51 2	322-519	1	"GBR (110V)"
52	984-750	2	D4×16
53	937-631	1	
54	953-327	1	D8.8
55	—	1	
501	—	1	
502	—	1	
503	303-709	1	





服务中心

日立工机商业(中国)有限公司

上海市闵行区浦江工业园区三鲁路3585号7幢3楼

制造商

福建日立工机有限公司

福建省福州市福兴投资区

 **Hitachi Koki Co., Ltd.**

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Code No. C99131624 F

Printed in China