

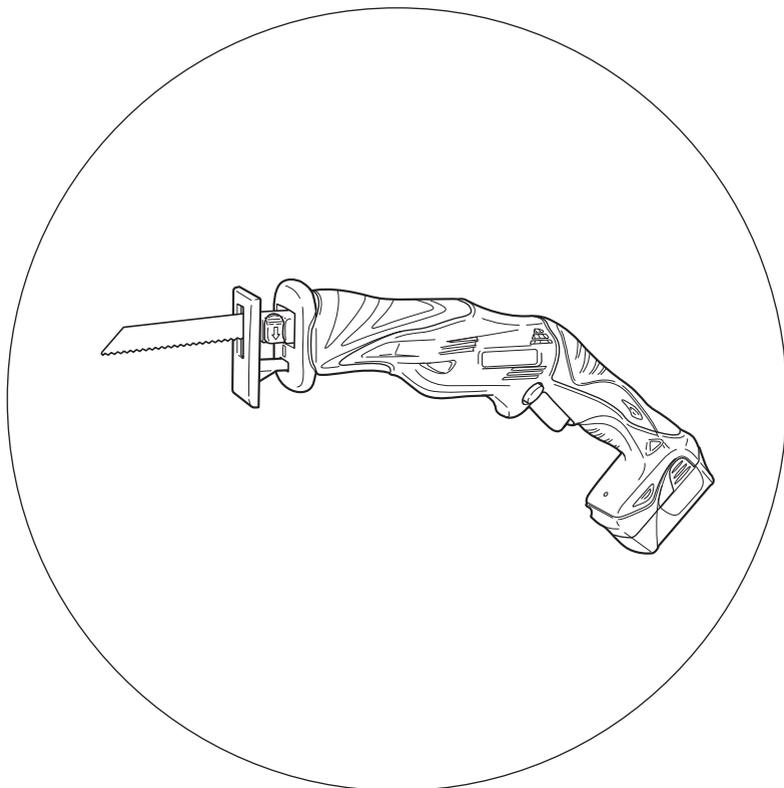
HiKOKI

充电式往复锯

Cordless Reciprocating Saw

CR 10DL

中文
English



保留备用

Keep for future reference



使用说明书

Handling instructions

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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) 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。

中文

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) 电池式工具使用和注意事项

- a) 只用制造商规定的充电器充电。

将适用于某种电池盒的充电器用到其他电池盒时会发生着火危险。

- b) 只使用配有特制电池盒的电动工具。

使用其他电池盒会发生损坏和着火危险。

- c) 当电池盒不用时，将它远离其他金属物体，例如回形针、硬币、钥匙、钉子、螺钉或其他小金属物体，以防一端与另一端连接。

电池端部短路会引起然烧或火灾。

- d) 在滥用条件下，液体会从电池中溅出；避免接触。如果无意间碰到了，用水冲洗。如果液体碰到了眼睛，还要寻求医疗帮助。

从电池中溅出的液体会发生腐蚀或燃烧。

6) 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！

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。

充电式往复锯使用上的注意事项

1. 务请在 10 ~ 40°C 的温度下进行充电。温度低于 10°C 将会导致充电过度，极其危险。电池不能在高于 40°C 的温度下充电。

最适合于充电的温度是 20 ~ 25°C。

2. 不要连续使用充电器。

一次充电完毕后，在 15 分钟内不要再次使用该充电器对电池充电。

3. 勿让杂质进入充电式电池连结口内。

4. 切勿拆卸充电式电池与充电器。

5. 切勿使充电式电池短路。

使电池短路将会造成很大的电流和过热，从而烧坏电池。

6. 请勿将电池丢入火中。

电池受热将会爆炸。

7. 在墙壁，地板或天花板上切割时，应检查是否有埋设的电源线等。

8. 请勿将异物插入充电器的通风口。
若将金属异物或易燃物插入通风口的话,将会引起触电事故或使充电器受损。
9. 使用一个电力耗尽的电池将会损坏加载装置。
10. 充电后电池寿命太短不够使用时,请尽快将电池送往经销店。请勿将用过的电池乱丢。
11. 持续使用本机,可能造成过热,从而导致马达和开关损坏。请停止使用本机 15 分钟左右。
12. 为保护您的听力请在工作时带上耳塞。
13. 切勿在工作中或刚刚结束工作时触摸锯条,因为在工作中锯条会变得很热,触摸其将会造成严重的烫伤。
14. 始终持牢电动工具的壳体,否则反作用力可能会造成操作误差或人身伤害。
15. 在进行调整、更换附件或存放工具之前请取出电池或将开关置于锁定或关闭位置。

锂离子电池使用注意事项

为延长使用期限,锂离子电池备配停止输出的保护功能。若是在使用本产品时发生下列 1 至 3 的情况,即使按下开关,马达也可能停止。这并非故障,而是启动保护功能的结果。

1. 在残留的电池电力即将耗尽时,马达会停止。
在这种情况下,请立即予以充电。
 2. 若工具超过负荷,马达亦可能停止。在这种情况下,请松开工具的开关,试着消除超过负荷的原因。之后您就可以再度使用。
 3. 若电池在过载工作情况下过热,电池电力可能会中止。
在这种情况下,请停止使用电池,让电池冷却。之后您就可以再度使用。
- 此外,请留心下列的警告及注意事项。

警告!

为防止发生电池漏电、发热、冒烟、爆炸及提前点燃,请确保留意下列事项。

1. 确保电池上没有堆积削屑及灰尘。
 - 在工作时确定削屑及灰尘没有掉落在电池上。
 - 确定所有工作时掉落在电动工具上的削屑和灰尘没有堆积在电池上。
 - 请勿将未使用的电池存放在曝露于削屑和灰尘的位置。
 - 在存放电池之前,请清除任何可能附着在上面的削屑和灰尘,并请切勿将它与金属零件(螺丝、钉子等)存放在一起。
2. 请勿以钉子等利器刺穿电池、以铁锤敲打、踩踏、丢掷电池,或将其剧烈撞击。
3. 切勿使用明显损坏或变形的电池。
4. 使用电池时请勿颠倒电极。
5. 请勿直接连接电源插座或汽车点烟器孔座。

中文

6. 请依规定方式使用电池，切勿移作他用。
7. 如果已过了再充电时间，电池仍无法完成充电，请立即停止继续再充电。
8. 请勿将电池放置于高温或高压处，例如微波炉、烘干机或高压容器内。
9. 在发觉有渗漏或异味时，请勿接近远离火源。
10. 请勿在会产生强烈静电的地方使用。
11. 如有电池渗漏、异味、发热、褪色或变形，或在使用、充电或存放时出现任何异常，请立即将它从装备或电池充电器拆下，并停止使用。

注意！

1. 若电池渗漏出的液体进入您的眼睛，请勿搓揉眼睛，并以自来水等干净清水充分冲洗，立刻送医。
若不加以处理，液体可能会导致眼睛不适。
2. 若液体渗漏至您的皮肤或衣物，请立即以自来水等清水冲洗。
上述情况可能会使皮肤受到刺激。
3. 若初次使用电池时发现生锈、异味、过热、褪色、变形及 / 或其它异常情况时，请勿使用并将该电池退还给供货商或厂商。

符号

警告！

如下所示的符号用于本机。使用前请务必理解其含意。



阅读所有安全警告和所有指示。

规格

电动工具

型式	CR10DL
无负荷速度	0 - 2700 /min
行程	13 mm
能力	软钢管：外径 25 mm
	聚氯乙烯管：外径 45 mm
	木材：厚度 50 mm
	软钢板：厚度 4 mm
充电式电池	BCL1015：锂离子 DC 10.8 V (1.5 Ah 3 节)
重量	1.2 kg

充电器

型式	UC10SFL
充电电压	10.8 V
重量	0.35 kg

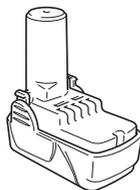
标准附件

CR10DL分为LCSK型和2LCSK型两种。各型号的附件请参见以下列表。

		CR10DL (LCSK)	CR10DL (2LCSK)
刀刃 (No. 5)		1	1
刀刃 (No. 107)		1	1
六角杆扳手		1	1
电池 (BCL1015)		1	2
充电器 (UC10SFL)		1	1
塑料箱		1	1

选购附件 (分开销售)

1. 电池 (BCL1015)



2. 刀刃

(1) 2 号刀刃

(2) 3 号刀刃

(3) 5 号刀刃

(4) 96 号刀刃

(5) 101 号刀刃

(6) 103 号刀刃

(7) 107 号刀刃

(8) 109 号刀刃

中文

○ (1) - (4) : HCS 刀刃 (HCS : 高速碳钢)

○ (5) - (8) : BI-METAL 刀刃

使用刀刃时, 请参照第 15 - 16 页的表 2, 表 3 和表 4。

用途

○ 管子和角钢的切锯。

○ 各种木材的切锯。

○ 软钢板及铝板的切锯。

○ 苯酚树脂、聚氯乙烯等合成树脂的切锯。

详细内容, 请参照“刀刃的选择”一节的内容。

电池的拆卸 / 安装法

注意!

务必保持开关关闭或将锁定解除按钮移至右侧 (锁定位置)。(参照图 1)

1. 电池的拆卸法

请先紧抓住把手, 然后再推压电池插销以拆下电池 (参照图 2 和 3)。

注意!

切勿使电池短路。

2. 电池的安装法

插入电池时请注意极性。(参照图 3)

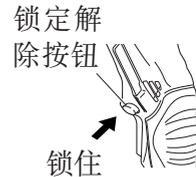


图 1



图 2

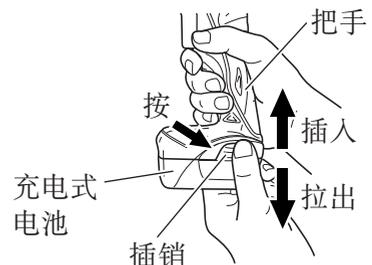


图 3

充电

使用电动工具之前，按下述方法将电池进行充电。

1. 将充电器的电源线连接到插座。
2. 将电池插入充电器。

请将电池有铭牌的那面朝向充电器的铭牌放置，并按下电池，直到与底板接触为止（参照图 4）。插入电池后充电器会亮起（指示灯亮起）。

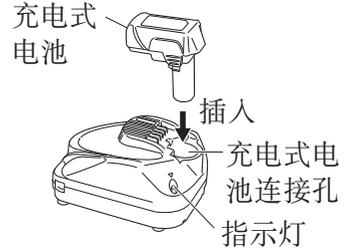


图 4

注意！

如果指示灯不亮，则请从插座上拔出电源线插头并检查电池的安装情况。

指示灯熄灭表示电池已经充好。

注意！

作业停止后，如电池（因晒太阳等原因）而变热，充电指示灯会不亮。这时，应先让电池冷却，然后再充电。

○ 关于充电时间

表 1 给出了根据电池类型所需的充电时间。

表 1 20°C 下的充电时间（分钟近似值）

电池容量 (Ah)	
1.5 Ah	
BCL1015	40分钟

注：

根据环境温度的不同，充电时间可能会有所变化。

3. 从电源插座拔下充电器的电源线。
4. 握紧充电器并取出电池。

注：

充电后，先将电池从充电器中取出，然后妥善保管。

较长时间保持电池性能的方法

- (1) 在电池电力完全耗尽之前进行充电。

感到电动工具的能力变弱时，请停止使用并给电池充电。若您继续使用电动工具并耗尽电力，电池可能会损坏或其使用寿命缩短。

(2) 避免在高温环境中充电。

使用后充电式电池的温度将迅速升高。若使用后立即对这种电池进行充电，其内部化学物质会劣化，电池使用寿命将缩短。请稍等片刻，待电池冷却后再进行充电。

注意！

- 连续使用电池充电器时，电池充电器将会升温，进而生成导致故障的因素。一旦充电完成，请闲置 15 分钟后再进行下次充电。
- 如果电池安装正确而电池充电器无法工作，则电池或充电器可能会出现故障。请将其带往授权的维修中心进行检测。

操作前须知

1. 安装锯条

该工具采用了不使用扳钳或其他工具便可装卸锯条的可装卸式装置。

(1) 打开、关闭开关按钮数次以致手柄从壳体完全弹出。然后，关闭开关并取出电池。(图 5)



图 5

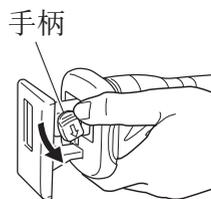


图 6

注意！

为杜绝意外事故的发生请务必关闭开关并取出电池。

(2) 如图 6 所示，按手柄上标示的箭头标记的方向推动手柄。(图 6)

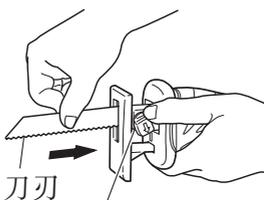


图 7

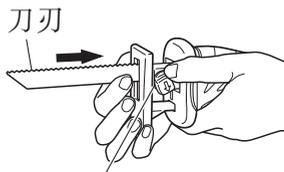


图 8

(3) 推压着手柄，将刀刃完全插入柱塞端部的缝隙中。可朝上或朝下安装此刀刃。(图 7, 图 8)

(4) 松开手柄时，弹簧的弹力会使手柄自动返回正确的位置。(图 9)

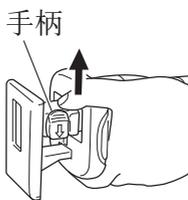


图 9

(5) 用手试着拉刀刃背两三次，以确认刀刃已安装牢固。拉刀刃背时，若它发出咯嗒声并手柄稍位移则说明已正确安装。(图 10)

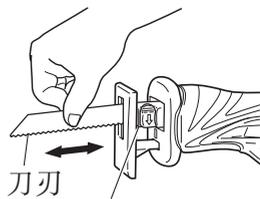


图 10

注意！

当拉动锯条时务必从后侧拉动，拉动锯条的其他部分将造成人身伤害。

2. 卸下锯条

- (1) 打开、关闭开关按钮数次以致手柄从壳体完全弹出。然后，关闭开关并取出电池。(图 11)

注意！

为杜绝意外事故的发生请务必将开关关闭并取出电池。

- (2) 按照图 12 中箭头所示的方向按下手柄后，将锯条转至面朝下，锯条应自然落下，若未自然落下请用手将其拔出。

注意！

切勿用手触摸刚刚使用过的锯条，否则，灼热的金属极易烫伤您的皮肤。

当锯条损坏时

即使当刀刃破损并残留在柱塞的小缝隙内时，若按箭头标记的方向推动手柄并使刀刃朝下，它仍会自行掉下。若未自行掉下，请按下述步骤将它取出。

- (1) 损坏的锯条的某部分粘在了插条的小插槽中，拔出插条并将锯条拔出。
- (2) 若损坏的锯条藏在小插槽内部，请用锯条的尖部将其钩住并取出。(图 13)

电锯的维护和检查

- (1) 使用后，请用气刷或刷子清除掉锯条上的灰尘、泥土、尘沙或潮气等，以确保锯条的工作顺畅。
- (2) 如图 14 所示，定期使用切锯液等在刀刃周围涂上润滑油。

注：

若在不乾淨或未润滑刀刃的状态下使用工具，手柄的功能可能因积尘和碎屑而变得重滞。在这种情况下，按图 15 所示的箭头标记方向拉动安装在手柄上的橡皮盖，并将其从手柄上取下。然後，使用气刷或类似工具清洁刀刃座内部，并涂上适量的润滑油。



图 11

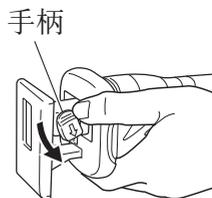


图 12

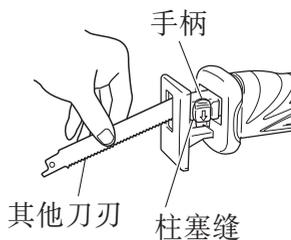


图 13

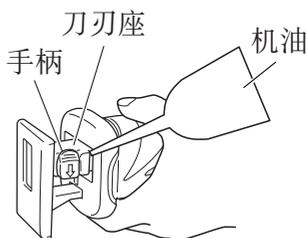


图 14



图 15

中文

朝手柄用力按压橡皮盖可将其安装上。此时请确定刀刃座与橡皮盖之间没有缝隙，并确保所安装的刀刃工作正常。

注意！

请勿使用带有磨损刀刃孔的刀刃。否则，刀刃可能会掉下，导致人员受伤。（图 16）

3. 移动基座

按照图 17，图 18 所示用六角铁条扳手松开六角凹头螺钉，然后向前移动基座。轻轻拧紧六角凹头螺钉，确保基座不向前或后活动，再紧固六角凹头螺钉。确保基座不与锯条接触。

4. 务必正确安装电池

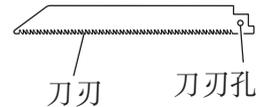


图 16

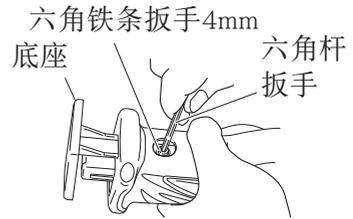


图 17

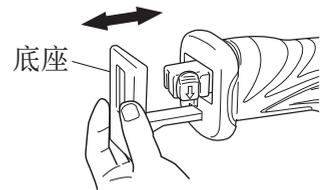


图 18

使用方法

较长时间保持电池性能的方法

- 在电池电力完全耗尽之前进行充电。

感到电动工具的能力变弱时，请停止使用并给电池充电。若您继续使用电动工具并耗尽电力，电池可能会损坏或其使用寿命缩短。

注意！

- 切勿让手指按着开关搬运工具。否则因突然启动而造成人身伤害。
- 在作业中请小心勿使锯屑、灰尘、水等通过柱塞部份进入机内。若锯屑等积于柱塞部份，请务必在使用前加以清除。（参照图 19）
- 在使用时，在切锯作业中请将底座压在材料上面。

若未将底座紧紧压在工件上，振动会导致刀刃损坏。

因此，有时刀刃端会接触管内壁，导致刀刃损坏。



图 19

- 请选择长度最适当的刀刃。理论上，减去行程量后从刀刃座突出的刀刃长度应大于材料。（参照图 20 和图 21）

若切锯超过刀刃切锯能力的大工件、大木块等，刀刃可能会接触到管内壁和木料等，从而发生危险。（参照图 22 和图 23）

- 为延长使用期限，锂离子电池备配停止输出的保护功能。因此，如果工具过载，电机可能停止。不过，这只是保护功能发挥作用的结果，并不是故障。在此情况下，松开工具开关，解决造成过载的原因即可。

1. 开关的操作

(1) 锁定解除按钮

本工具配有锁定解除按钮。要锁定搬钮，请将按钮移至右侧。移至左侧时便可操作工具。（图 24）

当搬运或存放时务必锁定开关，以避免意外启动。

(2) 搬钮开关

本工具配有控制各种速度的搬钮开关。通过按压和松开搬钮可将工具打开或关闭，通过按压搬钮来调整至合适的电锯的速度（从铭牌标注的最小速度至最大速度），向下按时速度加大，松开时速度减小。

2. 使用灯

扳动搬钮开关可以将灯点亮。当搬钮开关处于被扳动状态时，灯一直点亮。松开搬钮开关后，灯熄灭。（图 25）

注意！

请勿直视灯。否则，可能伤害眼睛。

3. 切锯金属材料

注意！

- 将底座紧紧按在工件之上。

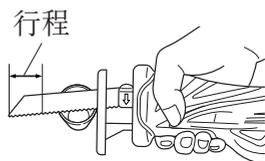


图 20

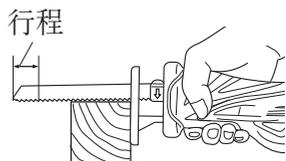


图 21

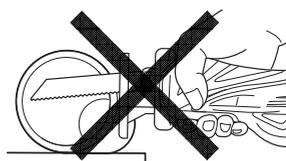


图 22

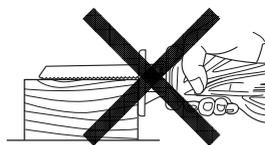


图 23

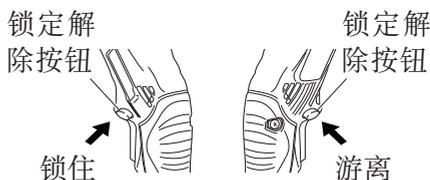


图 24



图 25

中文

- 切锯时请勿给刀刃施加异常力量。否则很容易损坏刀刃。
- 根据切割物的构成或锯条的不同有时马达会锁住。一旦马达锁住，请立即关闭开关。

- (1) 在作业前牢牢固定工件。(图 26)
- (2) 在切锯金属材料时,请使用适当的机油(涡轮油等)。未使用液体机油时,请给工件涂上润滑油。

注意!

若未使用机油,刀刃的使用寿命会大幅缩短。

4. 切锯木料
切锯木料时,在开始操作前务必先牢牢固定工件。(图 27)

注意!

切锯时请勿给刀刃施加异常力量。同时,请将底座紧紧压在木料上。

5. 切锯曲线
建议使用第 16 页的表 3 中的 BI-METAL 刀刃,因为这种刀刃坚韧耐用。

注意!

将材料切割成小圆弧时须降低进料速度,速度过快可能会损坏刀刃。

6. 插入切锯
使用本电动往复锯,可在木合板和薄板材料上进行插入切锯。如图 29、图 31、和图 33 所示,颠倒安装刀刃,可相当轻松地进行袋形切锯。请尽量使用短而薄的刀刃。为此,建议使用第 16 页的表 3 中列出的 BI-METAL 刀刃号码 107 号。在切锯作业中请务必小心操作并遵守以下步骤。

- (1) 请将底座的下部(或上部)压在切锯材料上,使刀刃前端脱离切锯材料并扣扳机。(图 28, 图 29)
- (2) 慢慢抬起把手并用刀刃一点一点地切入。(图 30, 图 31)
- (3) 紧紧抓住机身,直至刀刃完全切入材料。(图 32, 图 33)

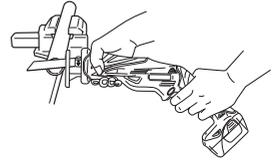


图 26

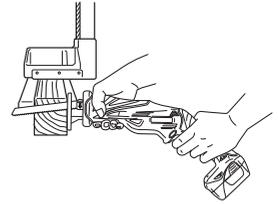


图 27

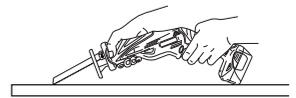


图 28

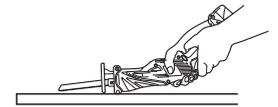


图 29

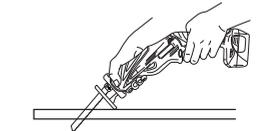


图 30

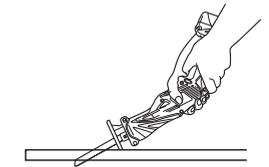


图 31

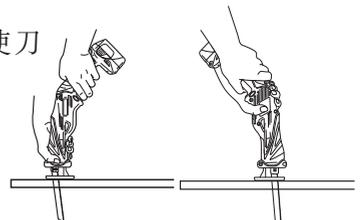


图 32

图 33

注意！

- 避免对金属材料进行切锯，否则很容易损坏刀刃。
- 在刀刃前端压在切锯材料上时切勿扣扳机。否则，当刀刃接触材料时很容易被损坏。
- 务必紧紧抓住机身缓慢地进行切锯。在切锯作业中若对刀刃异常用力，则很容易损坏刀刃。

注：

在寒冷的条件（低于摄氏零度）下使用电池 BCL1015 会减弱转动扭力和减少工作量。这只是暂时现象。在电池变热后会恢复正常。

7. 电池电量警告灯

当电动工具处于无负载状态时，可以通过扳动搬钮开关来检查电池电量。当电池电量非常低时，电池电量警告灯点亮。若出现这种情况，请对电池充电。（图 34）



图 34

注：

- 电池电量警告灯在电量剩余多少时点亮因环境温度、电池特性等不同而异，仅供参考。
- 当电动工具过载时，电池电量警告灯可能点亮。这并不意味着电池电量非常低。务必在工具处于无负载状态的情况下检查电池电量。

刀刃的选择

为了确保最大工作效率和效果，必须选择种类和厚度最适合切锯材料的刀刃。

注：

表中所示的工件尺寸，表示将底座设置于最靠近充电式往复锯安装位置时的尺寸。须注意，若将底座安装在远离充电式往复锯处，则工件尺寸将变小。

1. HCS 刀刃的选择

表 2 中 HCS 刀刃的刀刃号码标示于各刀刃的安装位置附近。请参照下面表 2 和第 16 页的表 4 来选择适当的刀刃。

表 2：HCS 刀刃

刀刃号码	用途	厚度 (mm)
2 号	切锯直径小于 30mm 的钢管	2.5 - 6
3 号	切锯直径小于 30mm 的钢管	3.5 以下
5 号	切锯和磨毛木料	30 以下
96 号	切锯直径小于 30mm 的不锈钢管	2.5 以下

注：

2 号 - 96 号 HCS 刀刃为另售件。

中文

2. BI-METAL 刀刃的选择

表 3 中的 BI-METAL 刀刃号码表示特殊套装附件。
请参照下面表 3 和表 4 选择适当的刀刃。

表 3：BI-METAL 刀刃

刀刃号码	用途	厚度 (mm)
101 号	切锯外径小于 60mm 的钢管和不锈钢管	2.5 - 6
103 号	切锯外径小于 60mm 的钢管和不锈钢管	2.5 - 6
107 号	切锯外径小于 60mm 的钢管和不锈钢管	3.5 以下
109 号	切锯外径小于 60mm 的钢管和不锈钢管	2.5 - 6

注：

101 号至 109 号 BI-METAL 刀刃为另售件。

3. 选择用于其他材料的刀刃

表 4

切锯材料	材料性质	厚度 (mm)	刀刃号码
铁板	软钢板	2.5 - 10	2、101、103、109 号
		3.5 以下	3、107 号
有色金属	铝、铜和青铜	5 - 20	2、101、103、109 号
		5 以下	3、107 号
合成树脂	苯酚树脂、蜜胺甲醛树脂等	10 - 50	2、4、101、103 号
		5 - 30	3、5、8、107、109 号
	聚氯乙烯树脂、丙烯酸树脂等	10 - 60	2、4、101、103 号
		5 - 30	3、5、8、107、109 号

维护和检查

注意！

维护和检查前请务必关闭开关。

1. 检查刀刃

如继续使用已钝了的或已损坏了的刀刃，会降低工作效率并可能会引起马达超负荷。因此，一旦注意到刀刃磨损，请立即用新刀刃更换之。

2. 检查安装螺丝

定期检查所有的安装螺丝并确保它们均被正常拧紧。若有某些螺丝松弛，请立即将其拧紧。否则，会导致发生重大危险。

3. 马达的保养

马达装置线圈是电动工具的“心脏”。

须特别注意，确保线圈不受损和（或）被油或水浸湿。

4. 清洁外部

往复锯沾污时，用软布或沾肥皂水的布擦拭。不要使用氯溶液、汽油或稀释剂。

5. 存放

请存放在温度低于 40℃ 并远离小孩的场所。

6. 维修零部件一览表

注意！

HiKOKI牌电动工具的维修、改造和检查须由经HiKOKI公司授权的维修中心进行。

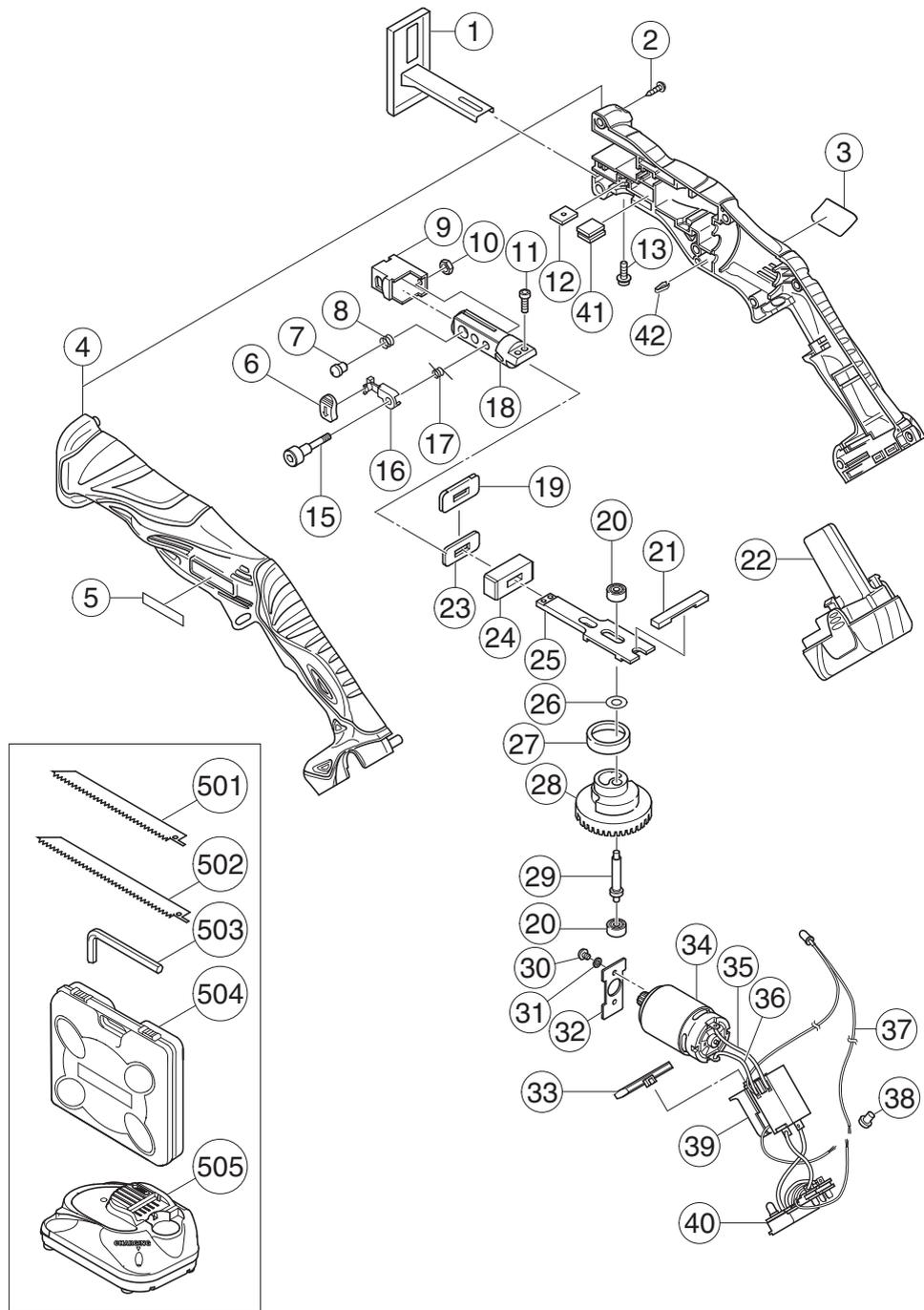
当要求维修或其他保养服务时，若将此零部件一览表与电动工具一起呈交给经HiKOKI公司授权的维修中心，将有助于维修或保养工作。

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。

关于HiKOKI牌无线电动工具的重要通知：

请确保始终使用我们指定的正版电池。如果使用我们指定以外的电池，或对电池进行拆卸和改动（例如拆卸和更换电池组件或其他内部部件），那么我们无法保证我们无线电动工具的安全性和使用性能。

维修零部件一览表



项目号	代码号	使用数	备注
1	329981	1	
2	313687	8	D3×16
3	————	1	
4	329994	1	
5	————	1	
6	321130	1	
7	321134	1	
8	318483	1	
9	321132	1	
10	322709	1	
11	318832	2	M3×12
12	329982	1	
13	329983	1	M4×10
15	322134	1	M4
16	321131	1	
17	321135	1	
18	329979	1	
19	329978	1	
20	322695	2	624VV
21	329980	1	
22	329371	1	BCL1015
23	329977	1	
24	329976	1	
25	329971	1	
26	329975	1	
27	329974	1	
28	329973	1	
29	329972	1	
30	949202	2	M3×6
31	949451	2	M3
32	329989	1	
33	329970	1	
34	329988	1	DC 10.8V
35	329991	1	
36	329992	1	

项目号	代码号	使用数	备注
37	329990	1	
38	959140	1	
39	329987	1	
40	329986	1	
41	330729	2	
42	330728	1	
501	958185	1	NO.5
502	318613	1	NO.103 150L P.14
503	943277	1	3MM
504	329993	1	
505	————	1	UC10SFL

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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.**

English

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) **Battery tool use and care**

- a) **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.

- b) **Use power tools only with specifically designated battery packs.**

Use of any other battery packs may create a risk of injury and fire.

- c) **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.

- d) **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.

6) **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.

CAUTION

Keep children and infirm persons away.

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

PRECAUTIONS FOR CORDLESS RECIPROCATING SAW

1. Always charge the battery at a temperature of 10 – 40°C. A temperature of less than 10°C will result in over charging which is dangerous. The battery cannot be charged at a temperature higher than 40°C.
The most suitable temperature for charging is that of 20 – 25°C.
2. Do not use the charger continuously.
When one charging is completed, leave the charger for about 15 minutes before the next charging of battery.
3. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
4. Never disassemble the rechargeable battery and charger.
5. Never short-circuit the rechargeable battery. Short-circuiting the battery will cause a great electric current and overheat. It results in burn or damage to the battery.
6. Do not dispose of the battery in fire.
If the battery is burnt, it may explode.
7. When cutting in wall, floor or ceiling, check for buried electric power cord, etc.
8. 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.
9. Using an exhausted battery will damage the charger.
10. Do not insert object into the air ventilation slots of the charger.
Inserting metal objects or inflammables into the charger air ventilation slots will result in electrical shock hazard or damaged charger.
11. When using this unit continuously, the unit may overheat, leading to damage in the motor and switch. Please leave it without using it for approximately 15 minutes.
12. Wear earplugs to protect your ears during operation.
13. Do not touch the blade during or immediately after operation. The blade becomes very hot during operation and could cause serious burns.
14. Always hold the housing of the power tool firmly. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
15. Remove the battery from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tools.

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 protection function.

1. When the battery power remaining runs out, the motor stops.
In such case, charge it up immediately.
2. 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.

English

3. 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.

1. 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.).
2. 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.
3. Do not use an apparently damaged or deformed battery.
4. Do not use the battery in reverse polarity.
5. Do not connect directly to an electrical outlets or car cigarette lighter sockets.
6. Do not use the battery for a purpose other than those specified.
7. If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
8. Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high pressure container.
9. Keep away from fire immediately when leakage or foul odor are detected.
10. Do not use in a location where strong static electricity generates.
11. 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

1. 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.
2. 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.
3. 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.

SYMBOL

WARNING

The following show symbols used for the machine. Be sure that you understand their meaning before use.



Read all safety warnings and all instructions.

SPECIFICATIONS

Power Tool

Model	CR10DL
No-Load Speed	0 – 2700 /min
Stroke	13 mm
Capacity	Mild Steel Pipe: O.D. 25 mm
	Vinyl Chloride Pipe: O.D. 45 mm
	Wood: Depth 50 mm
	Mild Steel Plate: Thickness 4 mm
Rechargeable battery	BCL1015: Li-ion DC 10.8 V (1.5 Ah 3 cells)
Weight	1.2 kg

Charger

Model	UC10SFL
Charging voltage	10.8 V
Weight	0.35 kg

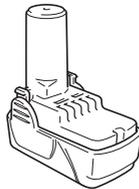
STANDARD ACCESSORIES

CR10DL have two types which are designated as LCSK and 2LCSK. For their respective accessories, see the Table below.

		CR10DL (LCSK)	CR10DL (2LCSK)
Blade (No. 5)		1	1
Blade (No. 107)		1	1
Hexagonal bar wrench		1	1
Battery BCL1015		1	2
Charger (UC10SFL)		1	1
Plastic case		1	1

OPTIONAL ACCESSORIES (sold separately)

1. Battery (BCL1015)



2. Blades

- | | |
|------------------|-------------------|
| (1) No. 2 Blade | (5) No. 101 Blade |
| (2) No. 3 Blade | (6) No. 103 Blade |
| (3) No. 5 Blade | (7) No. 107 Blade |
| (4) No. 96 Blade | (8) No. 109 Blade |

○ (1) – (4) : HCS Blades (HCS : Highspeed Carbon Steel)

○ (5) – (8) : BI-METAL Blades

Refer to **Table 2, 3 and 4 on page 35 - 36** for use of the blades.

APPLICATIONS

- Cutting pipe and angle steel.
- Cutting various lumbers.
- Cutting mild steel plates and aluminum plates.
- Cutting synthetic resins, such as phenol resin and vinyl chloride.

For details refer to the section entitled “SELECTION OF BLADES”.

BATTERY REMOVAL/INSTALLATION

CAUTION

Be sure to keep the switch turned off and the lock-off button moved to right position (lock position) (See Fig. 1).

1. Battery removal
Hold the housing tightly and push the battery latches to remove the battery (see **Figs. 2 and 3**).

CAUTION

Never short-circuit the battery.

2. Battery installation
Insert the battery while observing its polarities (see **Fig. 3**).

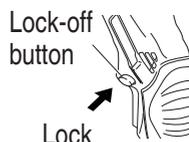


Fig. 1

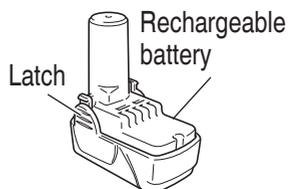


Fig. 2

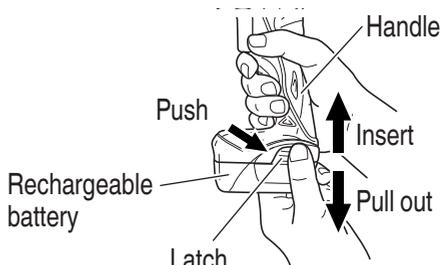


Fig. 3

CHARGING

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

1. Connect the charger power cord to the receptacle
2. Insert the battery in the charger
Position the battery so that the nameplate faces toward the nameplate of the charger and press in the battery until it comes into contact with the bottom plate (See Fig. 4). Inserting the battery will turn on the charger (the pilot lamp lights up).

Rechargeable battery

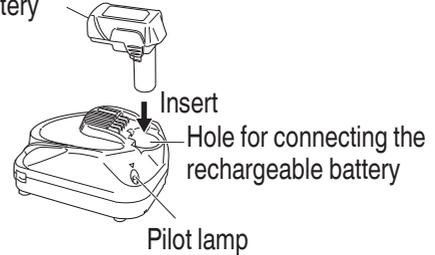


Fig. 4

CAUTION

If the pilot lamp does not light up, pull out the power cord from the receptacle and check the battery mounting condition.

The pilot lamp goes off to indicate that the battery is fully charged.

CAUTION

If the battery is heated due to direct sunlight, etc., just after operation, the charger pilot lamp may not light. At that time cool the battery first, then start charging.

- Regarding recharging time

Table 1 shows the recharging time required according to the type of battery.

Table 1 Recharging time (approx. min.) at 20°C

Battery capacity (Ah)	
1.5 Ah	
BCL1015	40 min.

NOTE

The recharging time may vary according to the ambient temperature.

3. Disconnect the charger's power cord from the receptacle.
4. 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.

How to make the batteries perform longer

- (1) Recharge the batteries before they become completely exhausted.
When you feel that the power of the tool becomes weaker, stop using the tool and recharge its battery. If you continue to use the tool and exhaust the electric current, the battery may be damaged and its life will become shorter.

- (2) Avoid recharging at high temperatures.
A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

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.
- If the battery charger does not work while the battery is mounted correctly, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

PRIOR TO OPERATION

1. Mounting the blade
This unit employs a detachable mechanism that enables mounting and removal of saw blades without the use of a wrench or other tools.
- (1) Turn on and off the switching trigger several times so that the lever can jump out of the housing completely. Thereafter, turn off the switch and remove the battery (Fig. 5).

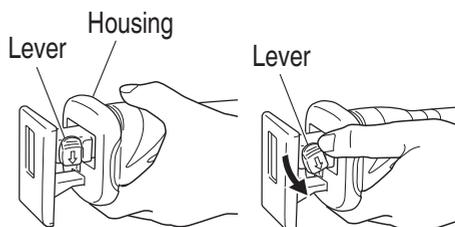


Fig. 5

Fig. 6

CAUTION

Be absolutely sure to keep the switch turned off and the battery removed to prevent any accident.

- (2) Push the lever in the direction of the arrow mark shown in Fig. 6 marked on the lever (Fig. 6).
- (3) Insert the saw blade all the way into the small slit of the plunger tip with the lever pushing. You can mount this blade either in the upward or downward direction (Fig. 7, Fig. 8).
- (4) When you release the lever, the spring force will return the lever to the correct position automatically (Fig. 9).

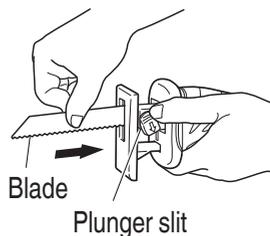


Fig. 7

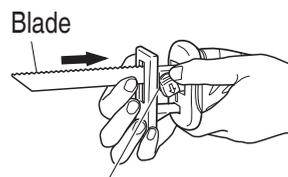


Fig. 8

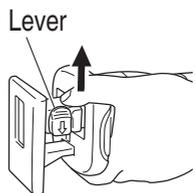


Fig. 9

English

- (5) Pull the back of the saw blade two or three times by hand and check that the blade is securely mounted. When pulling the blade, you will know it is properly mounted if it clicks and the lever moves slightly (**Fig. 10**).

CAUTION

When pulling the saw blade, be absolutely sure to pull it from the back. Pulling other parts of the blade will result in an injury.

2. Dismounting the blade
 - (1) Turn on and off the switching trigger several times so that the lever can jump out of the housing completely. Thereafter, turn off the switch and remove the battery (**Fig. 11**).

CAUTION

Be absolutely sure to keep the switch turned off and the battery removed to prevent any accident.

- (2) After you have pushed the lever in the direction of the arrow mark shown in **Fig. 12** and secured it, turn the blade so it faces downward. The blade should fall out by itself. If the blade doesn't fall out, pull it out by hand.

CAUTION

Never touch the saw blade immediately after use. The metal is hot and can easily burn your skin.

WHEN THE BLADE IS BROKEN

Even when the saw blade is broken and remains inside the small slit of the plunger, it should fall out if you push the lever in the direction of the arrow mark, and face the blade downward. If it doesn't fall out itself, take it out using the procedures explained below.

- (1) If a part of the broken saw blade is sticking out of the small slit of the plunger, pull out the protruding part and take the blade out.
- (2) If the broken saw blade is hidden inside the small slit, hook the broken blade using a tip of another saw blade and take it out (**Fig. 13**).

MAINTENANCE AND INSPECTION OF SAW BLADE MOUNT

- (1) After use, blow away sawdust, earth, sand, moisture, etc., with air or brush them away with a brush, etc., to ensure that the blade mount can function smoothly.

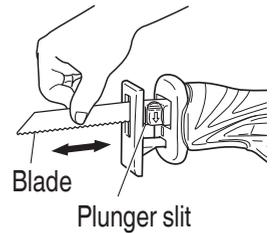


Fig. 10

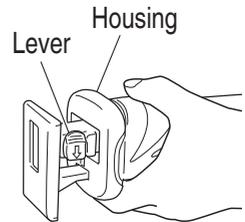


Fig. 11

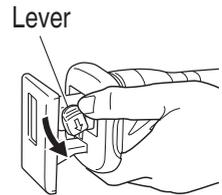


Fig. 12

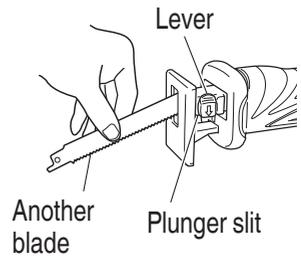


Fig. 13

- (2) As shown in **Fig. 14**, carry out lubrication around the blade holder on a periodic basis by use of cutting fluid, etc.

NOTE

Continued use of the tool without cleaning and lubricating the area where the saw blade is installed can result in some slack movement of the lever due to accumulated sawdust and chips. Under the circumstances, pull a rubber cap provided on the lever in the direction of an arrow mark as shown in **Fig. 15** and remove the rubber cap from the lever. Then, clean up the inside of the blade holder with air and the like and carry out sufficient lubrication. The rubber cap can be fitted on if it is pressed firmly onto the lever. At this time, make certain that there exists no clearance between the blade holder and the rubber cap, and furthermore ensure that the saw-blade-installed area can function smoothly.

CAUTION

Do not use any saw blade with a worn-out blade hole. Otherwise, the saw blade can come off, resulting in personal injury (Fig. 16).

- Moving the base
Loosen the hex. socket bolt with hexagonal bar wrench and move the base forward, as shown in **Fig. 17**, **Fig. 18**. Tighten the set screw slightly, ensure the base does not move back and forth, and firmly tighten the hex. socket bolt. Ensure that the base does not contact the blade.
- Confirm that the battery is mounted correctly

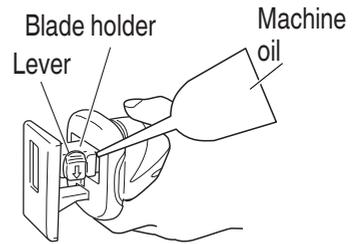


Fig. 14

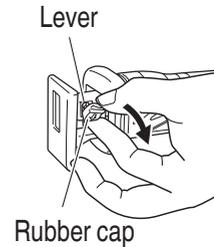


Fig. 15

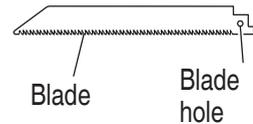


Fig. 16

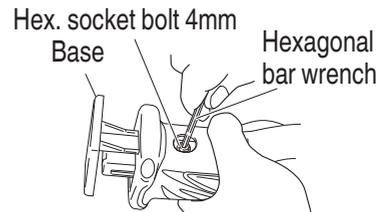


Fig. 17

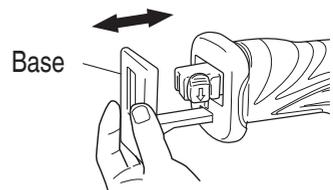


Fig. 18

HOW TO USE

How to make the batteries perform longer

- Recharge the batteries before they become completely exhausted.
When you feel that the power of the tool becomes weaker, stop using the tool and recharge its battery. If you continue to use the tool and exhaust the electric current, the battery may be damaged and its life will become shorter.

CAUTION

- Do not carry tools with your finger on the switch. A sudden startup can result in an unexpected injury.
- Be careful not to let sawdust, earth, moisture, etc., enter the inside of the machine through the plunger section during operation. If sawdust and the like accumulate in the plunger section, always clean it before use (refer to Fig. 19).
- During use, press the base against the material while cutting.
Vibration can damage the saw blade if the base is not pressed firmly against the workpiece. Furthermore, a tip of the saw blade can sometimes contact the inner wall of the pipe, damaging the saw blade.
- Select a saw blade of the most appropriate length. Ideally, the length protruding from the base of the saw blade after subtracting the stroke quantity should be larger than the material (see Fig. 20 and Fig. 21).
If you cut a large pipe, large block of wood, etc., that exceeds the cutting capacity of a blade; there is a risk that the blade may contact with the inner wall of the pipe, wood, etc., resulting in damage (Fig. 22, Fig. 23).
- To extend the lifetime, the lithium-ion battery equips with the protection function to stop the output. Therefore, if the tool is overloaded, the motor may stop. However, this is not the trouble but the result of protection function. In this case, release the switch of tool and eliminate the causes of overloading.

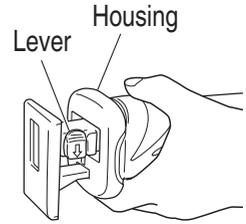


Fig. 19

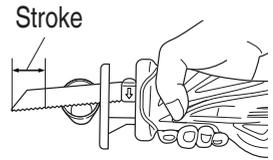


Fig. 20

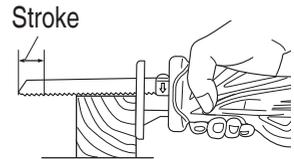


Fig. 21

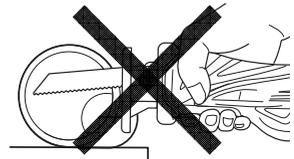


Fig. 22

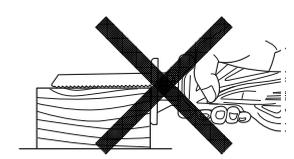


Fig. 23

1. Switch operation

(1) Lock-off button

The tool is equipped with a lock-off button. To activate the trigger lock, move the button to the right position. Move the button to the left to operate the tool (**Fig. 24**).

Always lock the switch when carrying or storing the tool eliminate unintentional starting.

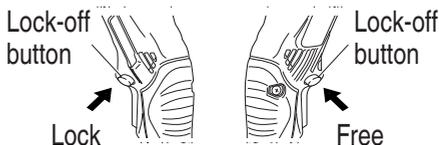


Fig. 24

(2) Trigger switch

This tool is equipped with a variable speed controlled trigger switch. The tool can be turned "ON" or "OFF" by squeezing or releasing the trigger. The blade plunger stroke rate can be adjusted from the minimum to maximum nameplate stroke rate by the pressure you apply to the trigger. Apply more pressure to increase the speed and release pressure to decrease speed.

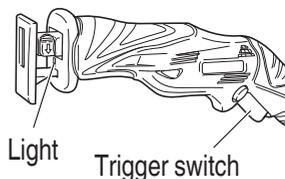


Fig. 25

2. Using the light

Pull the trigger switch to light up the light. The light keeps on lighting while the trigger switch is being pulled. The light goes out after releasing the trigger switch. (**Fig. 25**)

CAUTION

Do not look directly into the light. Such actions could result in eye injury.

3. Cutting metallic materials

CAUTION

- **Press the base firmly against the workpiece.**
- **Never apply any unreasonable force to the saw blade when cutting. Doing so can easily break the blade.**
- **The motor can be locked sometimes, depending on the combination of the material to be cut and the blade. Whenever the motor gets locked, switch it off immediately.**

(1) Fasten a workpiece firmly before operation (**Fig. 26**).

(2) When cutting metallic materials, use proper machine oil (turbine oil, etc.). When not using liquid machine oil, apply grease over the workpiece.

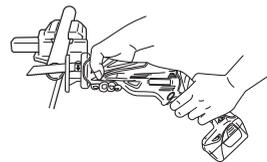


Fig. 26

CAUTION

The service life of the saw blade will be drastically shortened if you don't use machine oil.

4. Cutting lumber

When cutting lumber, make sure that the workpiece is fastened firmly before beginning (**Fig. 27**).

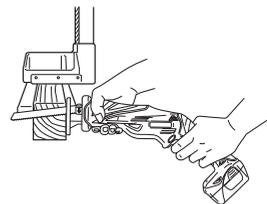


Fig. 27

English

CAUTION

- **Never apply any unreasonable force to the saw blade when cutting. Also remember to press the base against the lumber firmly.**

5. Sawing curved lines

We recommend that you use the BI-METAL blade mentioned in **Table 3 on page 36** for the saw blade since it is tough and hardly breaks.

CAUTION

Delay the feed speed when cutting the material into small circular arcs. An unreasonably fast feed may break the blade.

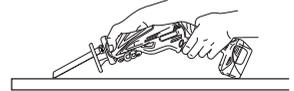


Fig. 28

6. Plunge cutting

With this tool, you can perform plunge cutting on plywood panels and thin board materials. You can carry out pocket cutting quite easily with the saw blade installed in reverse as illustrated in **Fig. 29**, **Fig. 31**, and **Fig. 33**. Use the saw blade that is as short and thick as possible. We recommend for this purpose that you use BI-METAL Blade No. 107 mentioned, **Table 3 on page 36**. Be sure to use caution during the cutting operation and observe the following procedures.

- (1) Press the lower part (or the upper part) of the base against the material. Pull the switch trigger while keeping the tip of the saw blade apart from the material (**Fig. 28**, **Fig. 29**).
- (2) Raise the handle slowly and cut in with the saw blade little by little (**Fig. 30**, **Fig. 31**).
- (3) Hold the body firmly until the saw blade completely cuts into the material (**Fig. 32**, **Fig. 33**).

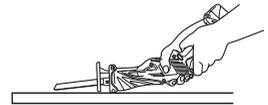


Fig. 29

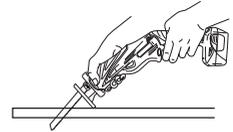


Fig. 30

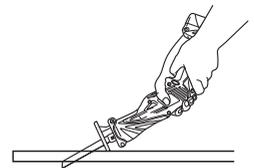


Fig. 31

CAUTION

- **Avoid plunge cutting for metallic materials. This can easily damage the blade.**
- **Never pull the switch trigger while the tip of the saw blade is pressed against the material. If you do so, the blade can easily be damaged when it collides with the material.**
- **Make absolutely sure that you cut slowly while holding the body firmly. If you apply any unreasonable force to the saw blade during the cutting operation, the blade can easily be damaged.**

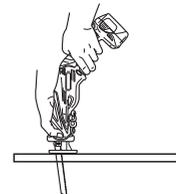


Fig. 32

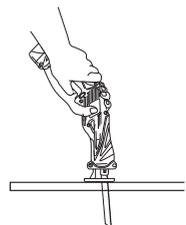


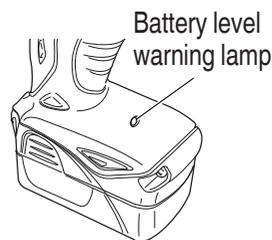
Fig. 33

NOTE

The use of the battery BCL1015 in a cold condition (below 0 degree Centigrade) can sometimes result in the weakened cutting torque and reduced amount of work. This, however, is a temporary phenomenon, and returns to normal when the battery warms up.

7. **Battery Level Warning Lamp**

The battery level can be checked by pulling the trigger switch while the power tool is in a no-load state. The battery level warning lamp lights when the battery power is very low. If this happens, charge the battery. (Fig. 34)

**Fig. 34****NOTE**

- The level at which the battery level warning lamp lights may vary due to the ambient temperature, characteristics of the battery, etc. and is intended only as a guide.
- The battery level warning lamp may light when the power tool is overloaded. This does not mean that the battery power is very low.
Be sure to check the battery level while the tool is in a no-load state.

SELECTION OF BLADES

To ensure maximum operating efficiency and results, it is very important to select the appropriate blade best suited to the type and thickness of the material to be cut.

NOTE

Dimensions of the workpiece mentioned in the table represent the dimensions when the mounting position of the base is set nearest to the body of the Cordless Reciprocating Saw. Caution must be exercised since dimensions of the workpiece will become smaller if the base is mounted far away from the body of the Cordless Reciprocating Saw.

1. **Selection of HCS blades**

The blade number of HCS blades in **Table 2** is engraved in the vicinity of the mounting position of each blade. Select appropriate blades by referring to **Tables 2 and 4 on page 36**.

Table 2: HCS blades

Blade No.	Uses	Thickness (mm)
No. 2	For cutting steel pipe less than 30 mm in diameter	2.5 – 6
No. 3	For cutting steel pipe less than 30 mm in diameter	Below 3.5
No. 5	For cutting and roughing lumber	Below 30
No. 96	For cutting stainless steel pipe less than 30 mm in diameter	Below 2.5

NOTE

No. 2 – No. 96 HCS blades are sold separately as optional accessories.

English

2. Selection of BI-METAL blades

The BI-METAL blade numbers in **Table 3** are described on the packages of special accessories. Select appropriate blades by referring to **Table 3** and **4** below.

Table 3: BI-METAL blades

Blade No.	Uses	Thickness (mm)
No. 101	For cutting steel and stainless pipes less than 60 mm in outer diameter	2.5 – 6
No. 103	For cutting steel and stainless pipes less than 60 mm in outer diameter	2.5 – 6
No. 107	For cutting steel and stainless pipes less than 60 mm in outer diameter	Below 3.5
No. 109	For cutting steel and stainless pipes less than 60 mm in outer diameter	2.5 – 6

NOTE

Nos. 101 – No. 109 BI-METAL blades are sold separately as optional accessories.

3. Selection of blades for other materials

Table 4

Material to be cut	Material quality	Thickness (mm)	Blade No.
Iron plate	Mild steel plate	2.5 – 10	No. 2, 101, 103, 109
		Below 3.5	No. 3, 107
Nonferrous metal	Aluminium, Copper and Brass	5 – 20	No. 2, 101, 103, 109
		Below 5	No. 3, 107
Synthetic resin	Phenol resin, Melamine resin, etc.	10 – 50	No. 2, 4, 101, 103
		5 – 30	No. 3, 5, 8, 107, 109
	Vinyl chloride, Acrylic resin, etc.	10 – 60	No. 2, 4, 101, 103
		5 – 30	No. 3, 5, 8, 107, 109

MAINTENANCE AND INSPECTION

CAUTION

Be sure to turned off the switch and remove the battery before maintenance and inspection.

1. Inspecting the blade
Continued use of a dull or damaged blade will result in reduced cutting efficiency and may cause overloading of the motor. Replace the blade with a new one as soon as excessive 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. Cleaning of the outside
When the Cordless Reciprocating Saw is stained, wipe with a soft dry cloth or a cloth moistened with soapy water. Do not use chloric solvents, gasoline or paint thinner, as they melt plastics.
5. Storage
Store the Cordless Reciprocating Saw in a place in which the temperature is less than 40°C, and out of reach of children.
6. Service parts list

CAUTION

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

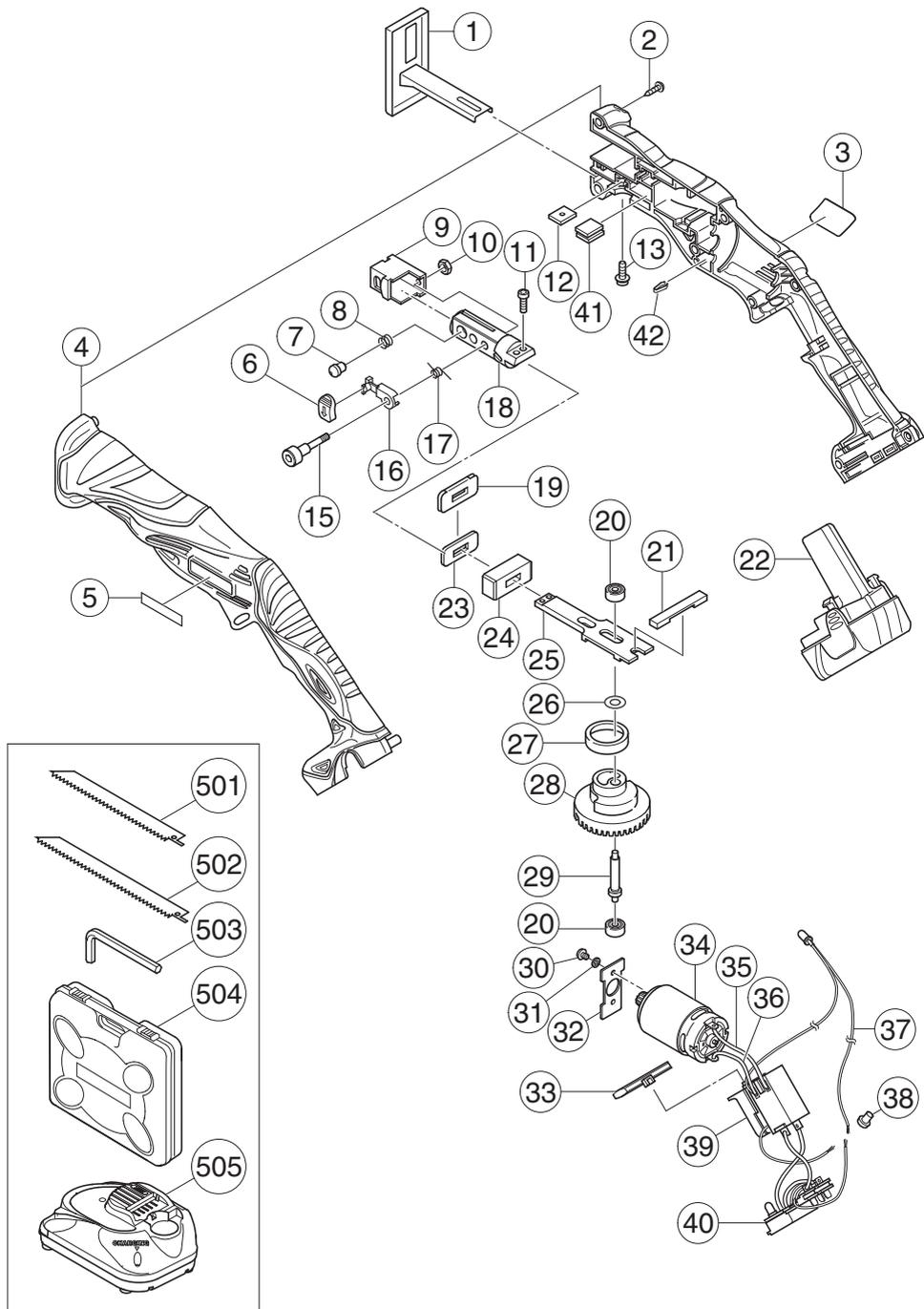
This Parts List will be helpful if presented with the tool to the HIKOKI Authorized Service Center when requesting repair or other maintenance.

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

Important notice on the batteries for the HIKOKI cordless power tools

Please always use one of our designated genuine batteries. We cannot guarantee the safety and performance of our cordless power tool when used with batteries other than these designated by us, or when the battery is disassembled and modified (such as disassembly and replacement of cells or other internal parts).

SERVICE PARTS LIST



Item No.	Code No.	No. Used	Remarks	Item No.	Code No.	No. Used	Remarks
1	329981	1		37	329990	1	
2	313687	8	D3x16	38	959140	1	
3	_____	1		39	329987	1	
4	329994	1		40	329986	1	
5	_____	1		41	330729	2	
6	321130	1		42	330728	1	
7	321134	1		501	958185	1	NO.5
8	318483	1		502	318613	1	NO.103 150L P.14
9	321132	1		503	943277	1	3MM
10	322709	1		504	329993	1	
11	318832	2	M3x12	505	_____	1	UC10SFL
12	329982	1					
13	329983	1	M4x10				
15	322134	1	M4				
16	321131	1					
17	321135	1					
18	329979	1					
19	329978	1					
20	322695	2	624VV				
21	329980	1					
22	329371	1	BCL1015				
23	329977	1					
24	329976	1					
25	329971	1					
26	329975	1					
27	329974	1					
28	329973	1					
29	329972	1					
30	949202	2	M3x6				
31	949451	2	M3				
32	329989	1					
33	329970	1					
34	329988	1	DC 10.8V				
35	329991	1					
36	329992	1					

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Koki Holdings Co., Ltd.

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