

HiKOKI

充电式割草机

Cordless Grass Trimmer

CG 18DSDL

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) 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。

割草机安全警告

重要

使用前请仔细阅读

妥善保存以备将来参考

安全操作惯例

● 培训

- a) 仔细阅读说明书。熟悉各项控制，正确使用机器。
- b) 严禁新手或儿童使用本机器。当地法规可能会限制操作员的年龄。
- c) 请记住，操作员或用户对于发生的人员伤害或财产损害承担责任。

● 准备

- a) 附近有人员、特别是儿童或宠物时，切勿操作机器。

b) 操作机器时务必穿戴护目镜和安全鞋。

● 操作

a) 只在白天或光线良好的条件下使用机器。

b) 切勿在盖子损坏或未盖上盖子的情况下操作本机。

c) 只在手脚远离修剪区域时开启发动机。

d) 在以下情况下，务必从电源上断开机器（即：从主电源拔下电源插头，或卸下故障设备）：

— 机器无人看管

— 清除卡塞物之前

— 检查、清除或维护机器之前

— 有异物进入

— 机器异常振动。

e) 谨慎修剪，以免造成手脚伤害。

f) 务必确保通风口无堵塞。

● 维护和存放

a) 在进行维护或清洁工作之前，务必从断开机器电源（即：从主电源拔下电源插头，或卸下故障设备）

b) 只使用制造商推荐的更换零件和配件。

c) 定期检查和维护机器。只能由授权的维修人员维修机器。

d) 不使用时，请将机器存放至儿童无法触及的地方。

充电式割草机的使用注意事项

警告！

1. 用本工具作业时请充分注意，并穿上适当的保暖服装。

2. 作业前请作好计划以防发生事故。

3. 勿在晚上或视野不良的恶劣天气条件下操作本工具。勿在下雨天或刚下过雨后操作本工具。

在较滑的地面上作业时如果失去平衡会导致事故。

4. 开始作业前请检查尼龙头。

如果尼龙头破裂、损伤或弯曲请勿使用本工具。

确认已正确安装尼龙头。作业时尼龙头掉落或松弛可能会引起事故。

5. 作业前务必装上盖子。

在没有盖子的情况下操作本工具会导致受伤。

6. 开始作业前务必装上环状柄。

开始作业前请确认已正确安装而没有松弛。作业时请握紧环状柄，保持平衡，以正确姿势使用而不要摇摆本工具。

作业时失去平衡会导致受伤。

7. 起动马达时请注意。

请将本工具放在平地上。

中文

勿在离人或动物15 m之内的地方操作本工具。

确认尼龙头没有接触地面或树木和植物。

起动时的疏忽会导致受伤。

8. 请勿固定锁固杆。

意外地往后拉锁固杆会导致意外受伤。

9. 放开本工具之前，请按下电源按钮将其关闭。

10. 在电缆、燃气管等装置附近操作本工具时请小心。

11. 开始作业前注意并去除空罐、铁丝、石块或其它障碍物。勿在树根或岩石附近作业。

在这些地方作业会损坏尼龙头或导致受伤。

12. 作业时切勿触摸尼龙头。

并确认尼龙头未碰上您的头发、衣服等。

13. 在下列情况下，请关闭马达并检查尼龙头已停止旋转：

要移动到其它作业区域时；

要去除粘住本工具的垃圾或草时；

要从作业区域去除障碍物或割草产生的垃圾、草和碎屑时；

要放下本工具时。

在尼龙头仍在旋转的情况下做上述事情会导致意外事故。

14. 勿在离人15 m之内的地方使用本工具。

与他人一起作业时，请保持15 m以上的距离。

飞屑会导致意外事故。

在斜面等不平的表面上工作时，请确认您的同事未处于任何危险之中。

请用口哨或其它方法提醒您的同事注意。

15. 当草等物体缠在尼龙头上时，在去除前请关闭马达并确认尼龙头已停止旋转。

在旋转的情况下从尼龙头去除物体会导致受伤。外物粘在尼龙头上时继续作业可能导致损坏。

16. 如果本工具工作不佳并产生异常噪声或震动，请立即关闭马达并让经销商检查和修理。

在这种情况下继续使用会导致受伤或工具损坏。

17. 如果本工具掉落或受碰撞，请仔细检查工具是否损坏、破裂或变形。

使用损坏、破裂或变形的工具会导致受伤。

18. 用车辆运输时请固定本工具以确保其稳定。

不遵从此警告可能导致事故。

19. 本产品在马达中带有强力永久磁铁。

请遵守下列有关碎屑粘在本工具上的注意事项和有关永久磁铁对电子设备效应的说明。

注意！

○ 勿将本工具放在有金属碎屑的工作台上或作业区域内。

否则碎屑可能会粘在本工具上，导致受伤或故障。

- 如果碎屑粘在本工具上，请勿触摸碎屑。请用刷子去除碎屑。否则可能导致受伤。
- 如果使用心脏起搏器或其它电子医疗设备，请勿操作或接近本工具。否则电子设备的工作可能会受到影响。
- 请勿在手机、磁卡或电子存储媒体等精密设备的附近使用本工具。否则可能导致误操作、故障或数据丢失。

注意！

1. 请勿打开尼龙头来切割草之外的物体。请勿在水坑中操作本工具并确认泥土未与尼龙头接触。
2. 本工具带有精密零件，不得掉落、受强烈冲击或暴露于水中。否则本工具会损坏或发生故障。
3. 使用或运输后保存本工具时请取下尼龙头。
4. 请勿将本工具暴露于杀虫剂或其它化学品。这些化学品会引起破裂和其它损坏。
5. 当警告标签难以识别或辨认以及开始剥落时请更换成新的。请让经销商提供警告标签。
6. 刚使用后，因为还非常热请勿触摸马达。

电池和充电器注意事项

1. 务请在 0°C ~ 40°C 的温度下进行充电。温度低于 0°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°C ~ 25°C 。
2. 充电结束时，在下节电池充电之前，请先将充电器放置大约15分钟。切勿将电池充电超过 2 小时。
3. 勿让杂质进入充电式电池连结口内。
4. 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。
5. 请勿使用耗竭了的电池，否则会损坏充电器。
6. 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。
7. 切勿拆卸充电式电池与充电器。
8. 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。
9. 请勿将电池丢入火中。
电池受热将会爆炸。

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。

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。

警告！

如果导电异物接触到锂离子电池的端子，电池可能短路，并导致火灾。

存放锂离子电池时，请务必遵循下列注意事项。

- 切勿在存放盒中放置导电的残片，钉子，以及导线，如铁线和铜线。
- 为防止发生短路，应将电池装入工具中或者在存放时牢固地插入电池盖，直至看不到通风口（参照图 1）。

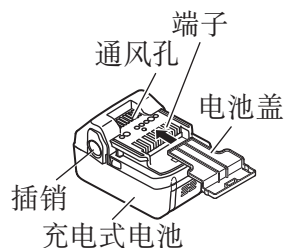


图 1

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 | CG18DSDL |
| 杆型 | 直型 |
| 切割直径 | 310 mm |
| 旋转方向 | 从上面看时为逆时针方向 |
| 空载速度 | 5000 /分 |
| 一次充电的工作时间* ¹ (附带充电电池充足电时) | 23 - 32 分钟* ² |
| 电池 | BSL1830: 锂离子 18 V (3.0 Ah 10 节) |
| 重量(带尼龙头、充电电池和盖子) | 4.3 kg |

*¹ 上表中的数据仅是示例。这些数据会因草的类型、环境温度、充电电池的特性和作业方法等而大不相同，只能用作大致参考。

*² 条件：尼龙头外径 310 mm，开关设为全速。(开关一直设为开启(ON))

充电器

| | |
|------|---------------|
| 型式 | UC18YGSL |
| 充电电压 | 14.4 V - 18 V |
| 重量 | 0.4 kg |

标准附件

CG18DSDL分为NN型和LEG型两种。各型号的附件请参见以下列表。

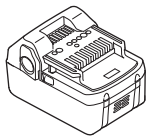
| | | | |
|-------------------|---|-----------------------|---|
| CG18DSDL (NN) |  | ① 尼龙头 | 1 |
| |  | ② 盖子 | 1 |
| |  | ③ 4 mm六角扳手 | 1 |
| |  | ④ 17×19组合套筒扳手 | 1 |
| |  | ⑤ 护目镜 | 1 |
| CG18DSDL (LEG) |  | ① 电池 (BSL1830)..... | 1 |
| |  | ② 充电器 (UC18YGSL)..... | 1 |
| |  | ③ 尼龙头 | 1 |
| |  | ④ 盖子 | 1 |
| |  | ⑤ 4 mm六角扳手 | 1 |
| |  | ⑥ 17×19组合套筒扳手 | 1 |
| |  | ⑦ 护目镜 | 1 |

[附带物品]

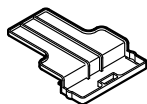
- 本产品附带下列物品(用于装配各零件)。
以下零部件的安装方法请参见“作业之前”（第15页）、“尼龙头”（第16页）。
- ① 盖子支架 1
 - ② M6 × 25圆柱头内六角螺钉 2
 - ③ M6弹簧垫圈 2
 - ④ 刀具 1
 - ⑤ D5 自攻螺丝 1
 - ⑥ 环状柄 1
 - ⑦ 手柄夹具 1
 - ⑧ M6×43螺栓 2
 - ⑨ M6螺母 2
 - ⑩ 法兰总成 1

选购附件（分开销售）

1. 电池 (BSL1830)



2. 电池盖



用途

修整、刈割杂草。

电池的拆卸 / 安装法

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）。

注意！

切勿使电池短路。

2. 电池的安裝法

插入电池时请注意极性（参照图 2）

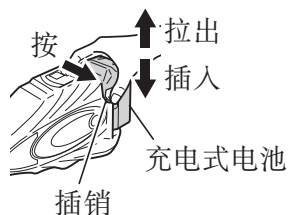


图 2

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。

将充电器插头连接到插座时，指示灯闪烁红色（间隔为 1 秒）。

2. 将电池插入充电器。

如图3和图4所示地将电池紧紧插入充电器。

充电式电池

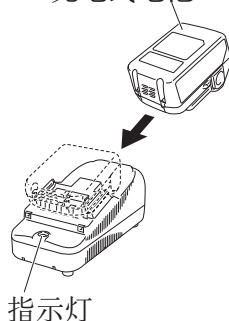


图 3



图 4

3. 充电

将电池插入充电器后，充电器上的指示灯将持续点亮呈红色。

电池完全充电后，指示灯将闪烁呈红色（以 1 秒的间隔）（参照表 1）。

(1) 指示灯显示

根据充电器或充电式电池的情况，指示灯的显示如表 1 所示。

表 1

| 指示灯的显示 | | | | |
|-------------|-------|----|----------------------------------|-------------------------|
| 指示灯 (红色) | 充电前 | 闪烁 | 点亮 0.5 秒钟，不点亮 0.5 秒钟 (熄灭 0.5 秒钟) | |
| | 充电时 | 点亮 | 连续点亮 | |
| | 充电完成 | 闪烁 | 点亮 0.5 秒钟，不点亮 0.5 秒钟 (熄灭 0.5 秒钟) | |
| | 过热而等待 | 闪烁 | 点亮 1 秒钟，不点亮 0.5 秒钟 (熄灭 0.5 秒钟) | 电池过热。无法充 (电池冷却后开始进行充电)。 |
| | 无法充电 | 闪烁 | 点亮 0.1 秒钟，不点亮 0.1 秒钟 (熄灭 0.1 秒钟) | 电池或充电器有问题。 |

(2) 关于充电式电池的溫度

充电式电池的温度如表 2 所示, 在充电前应使已发热的电池冷却片刻。

表 2 电池充电范围

| |
|--------------|
| 可以对电池进行充电的温度 |
| 0°C - 50°C |

- (3) 关于充电时间
- 各电池类型所需的充电时间如表 3所示。

表 3 充电时间 (20℃下)

| 电池 | 充电器 | UC18YGSL |
|----|---------|----------|
| | BSL1830 | 约90分钟。 |

- 注:
- 充电时间可能因环境温度而异。
4. 从电源插座拔下充电器的电源线。
5. 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。

关于新电池等的放电

因新的和长期未使用的充电式电池内部的化学物质无活性，故第一次和第二次使用时其放电能力可能较低。这是暂时现象，这种电池充电 2 - 3 次后即可恢复其充电所需的正常时间。

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！

- 如果电池长时间放置在阳光直接照射的地方或者刚刚使用完毕时，电池会变热。如果此时对电池充电，充电器上的指示灯会点亮 1 秒钟，不点亮 0.5 秒钟（熄灭 0.5 秒钟）。
- 在此情况下，先让电池冷却下来，然后再充电。
- 指示灯闪动时（以 0.2 秒钟的间隔），请检查并取出充电器电池接口处的任何异物。若无异物，则可能电池或充电器发生故障。请带去经授权的维修中心检查。
- 因内置的微机需要约 3 秒钟才能确认正用UC18YGSL 进行充电的电池已被取出，因此请待 3 秒钟后再重新插入电池继续充电。如果在不到 3 秒内就插入电池，则电池可能充电不正常。

有关电源指示灯

电源指示灯指示本工具的各种状态。(图 5)
电源指示灯指示的各种状态如表 4所示。

表 4

| 指示灯状况 | 工具状态 |
|--------|---------------------|
| 关闭 | 电源断开 |
| 红色 | 电池接通 |
| 闪烁红色 | 本工具的过热保护电路正在工作。 |
| | 本工具的过载保护电路工作时按下控制杆。 |
| 快速闪烁红色 | 本工具工作不正常。 |

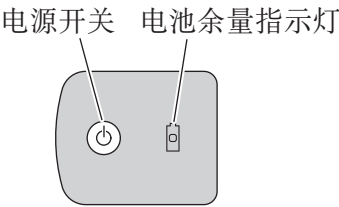




图 5

有关电池剩余电量指示灯

当电池剩余电量不多时电池剩余电量指示灯会闪烁。
请尽可能快地对本工具进行充电。电池剩余电量指示灯的状态和电池剩余电量如表 5所示。

表 5

| 指示灯状态 | 电池剩余电量 |
|--|----------------------|
|  | 电池剩余电量充足 |
|  | 电池已快无剩余电量。请尽快给电池再充电。 |

因为电池余量指示因环境温度和电池特性而略有不同，上表仅供参考。
注:

请勿对开关面板施加强烈冲击或将其损坏，否则可能会导致故障。

作业之前

注意！

在进行任何装配前请拉出电池。

1. 安装环状柄(图 6)

- (1) 拆下M6×43螺栓(2个)。
- (2) 将环状柄装在主管上使环状柄倚靠在外罩上。
- (3) 将手柄夹具放在主管的下端，并用M6×43螺栓(2个)和M6螺帽(2个)固定手柄夹具。

注:

将环状柄固定在能固定住的地方。

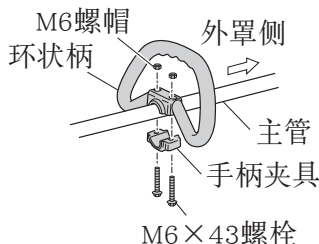


图 6

注意！

按照使用说明书中的指示正确地紧紧固定住环状柄。
否则环状柄可能会脱开，并引起伤害。

2. 安装盖子(参见图 7和图 8)

警告！

务必将盖子装在指定位置。
不遵从此警告可能会导致受到飞石的伤害。

注:

用附带的4 mm六角扳手进行安装。

- (1) 用附带的D5自攻螺丝将刀具安装在盖内。(图 7)
- (2) 将盖子托架内的两个孔与盖子对齐，将两个M6×25圆柱头内六角螺钉各穿过一个M6弹簧垫圈后插入。(将盖子托架装在马达箱内。)
- (3) 将盖子支架放在盖子下侧，并用附带的4 mm六角扳手交替拧紧两个M6×25圆柱头内六角螺钉直至正确拧紧。

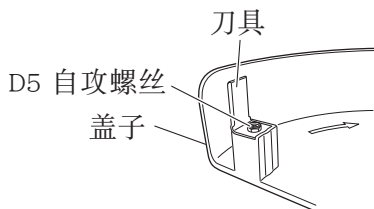


图 7



图 8

注意！

- 注意不要被盖子内的刀具割伤。
- 按照使用说明书中的指示正确地装紧盖子和刀具。
否则盖子和刀具可能会脱开，并引起伤害。

尼龙头

安装半自动尼龙头

1. 功能

被轻击时自动供给尼龙割草线。

规格

| 代号 | 附带螺丝的类型 | 旋转方向 | 附带螺丝的尺寸 |
|--------|---------|------|--------------|
| 333903 | 阴螺丝 | 逆时针 | M10×P1.25-LH |

适用的尼龙绳

线径：φ 1.4 mm

长度：6 m

注意！

- 必须将外壳装紧在盖子上。
- 检查盖子、外壳和其它组件是否破裂或损坏。
- 检查外壳和按钮是否磨损。
如果外壳上的磨损极限标记看不清楚或在按钮底部有洞，请立即更换成新的。(图 9)
- 必须将尼龙头装紧在马达箱的螺纹紧固件上。
- 为了确保出色的性能和可靠性，请始终使用HiKOKI尼龙割草线。切勿使用铁丝或其它会引起危险的材料。
- 如果尼龙头不能正常供给割草线，请检查尼龙线和其它组件是否正确安装。如需帮助请与HiKOKI经销商联系。

2. 安装 (图 10和图 11)

- (1) 将法兰总成插入马达箱。此时，法兰总成的翼应面对马达箱侧。接着，将法兰总成的孔对齐马达箱，插入4 mm六角扳手，然后转动拧紧法兰总成。
- (2) 将尼龙头直接旋入马达箱的螺纹紧固件。
尼龙头的装配螺帽为左螺纹。
要旋松时顺时针方向旋转 / 要拧紧时逆时针方向旋转。

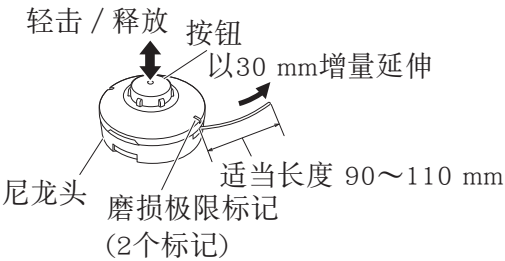


图 9

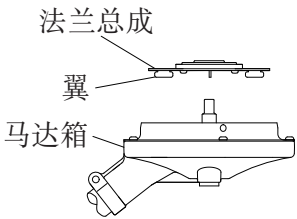


图 10

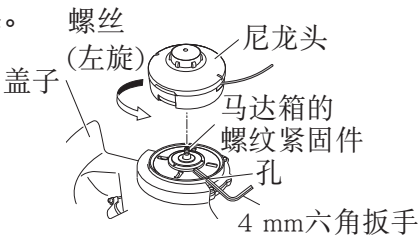


图 11

注意！

按照使用说明书中的指示正确地装紧尼龙头。
否则尼龙头可能会脱开，并引起伤害。

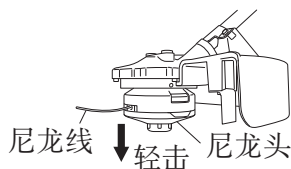


图 12

3. 调节线的长度

转动并轻击地面上的尼龙头。轻击一次约抽出 30 mm 的尼龙线。

(图 12)

也可用手延伸尼龙线。此时必须完全停下马达。

边拉住尼龙头的线端边通过“轻击”和“释放”底部按钮确认尼龙线以 30 mm 增量延伸。(图 13)

○ 尼龙线的适当长度

使用本工具时，适当的线长为 90 ~ 110 mm。请将线延伸至适当的长度。

4. 更换尼龙线

(1) 准备 $\phi 1.4 \text{ mm} \times 6 \text{ m}$ 的纯正尼龙线 (编号 333923)。

(2) 按下对面的凸出部，然后从外壳上拆下盖子。(图 14)

(3) 从外壳上拆下卷轴。(图 15)

○ 如有剩余尼龙线，勾住槽内的尼龙线，然后拆下卷轴。

○ 当有足够的尼龙线剩余而尼龙线不延伸或更换尼龙线 (编号 333923) 时，请按下列步骤卷绕尼龙线。

(4) 如图 16 和 17 所示，通过卷轴孔拉出尼龙线，并勾住卷轴槽内的尼龙线，然后按箭头方向卷绕尼龙线，使尼龙线不交叉。

(5) 剩下约 100 mm ~ 150 mm 的尼龙绳不要卷绕，勾住尼龙线并将其固定在固定件上。(图 18)

注:

将尼龙线固定在固定件上时请勿交叉尼龙线。(图 19)

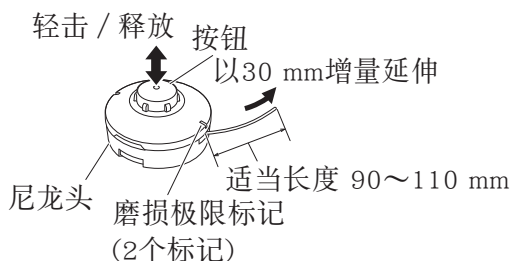


图 13

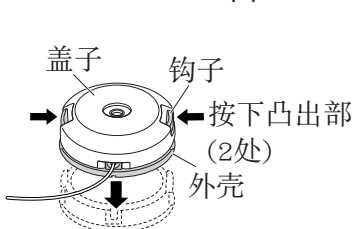


图 14

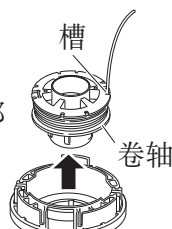


图 15

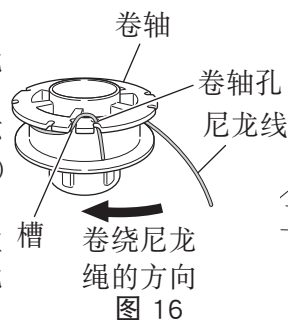


图 16

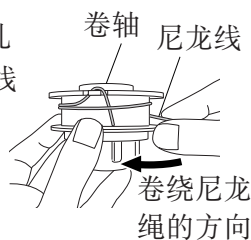


图 17

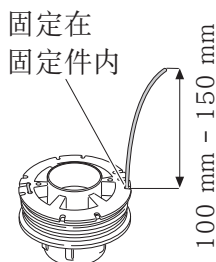


图 18

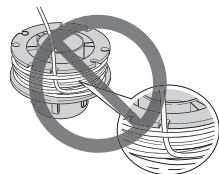


图 19

(6) 将固定件的位置和孔眼线导架对齐,然后穿过外壳插入按钮。

边轻轻地握住卷轴边从固定件放开尼龙线,然后将尼龙线穿过孔眼线导架。(图 20)

(7) 按下并扣上盖子锁固孔内的外壳凸出部。(图 21)

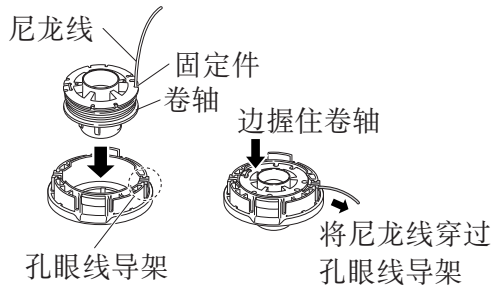


图 20

警告！

检查以确认凸出部紧紧地扣入锁固孔。

在零件未互相扣紧的情况下操作本工具可能会导致事故或被飞出的零件击伤。

(8) 拉紧尼龙线, 不使其松弛, 然后用剪刀将尼龙线剪成线长90 mm~110 mm。(图 22)

盖子上的锁固孔(2个孔)

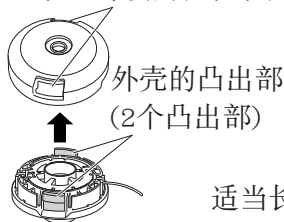


图 21

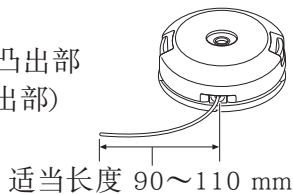


图 22

作业

割草

警告！

- 勿在晚上或视野不良的恶劣天气条件下操作本工具。
- 勿在下雨天或刚下雨后操作本工具。
- 穿上适当的鞋子以防打滑, 打滑会使您失去平衡并跌倒。
- 勿在陡峭的斜面上使用本工具。
在不太陡峭的斜面上割草时, 请从低向高地割。
- 将右手放在手柄上, 将左手放在环状柄上, 并紧握住。
- 注意不要让尼龙头太接近自己的脚。
- 割草时勿将尼龙头举到高于膝盖之处。
- 在尼龙头可能会碰上石子、树木和其它障碍物之处请勿使用本工具。
- 如果马达停下后尼龙头继续旋转, 尼龙头会损坏。关闭本机后, 请确认尼龙头已停下后再放下本机。
- 勿在离人15 m之内的地方使用本工具。与他人一起工作时, 请保持15 m以上的距离。

1. 插入电池，注意电池极性。
 2. 打开本工具。(图 23)
- 按下外罩上的电源按钮，电源接通，手柄上的电源指示灯亮红色。
 - 再次按下电源按钮，断开电源，手柄上的红灯熄灭。

[自动断开电源]

如果电源接通时1分钟内未使用控制杆，本工具会自动关闭。要再次打开本工具时，请再次按下电源按钮。

警告！

切勿在接通电源的情况下放开本工具，否则会导致事故。

3. 割草

- 从上面握住手柄，按下锁固杆并拉控制杆，起动机龙头旋转。(图 24)
- 割草结束后放开控制杆并停下马达。
- 将拇指放在环状柄上，用其它手指握住手柄。(图 25)
- 采取易于移动的姿势。

[割草技巧]

请勿摇摆管子，应边往前走边用臀部从右至左呈弧线地水平移动尼龙头，并用尼龙头的左侧割草。(图 26)

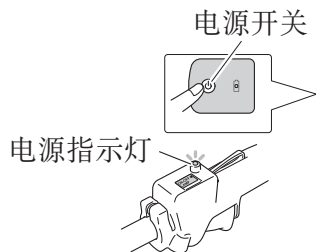


图 23

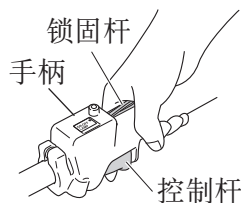


图 24

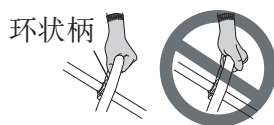


图 25



图 26

作业注意事项

持续作业

本工具带有保护控制充电电池的电子元件的过热保护电路。持续进行割草作业时，工具温度会上升，结果会触发过热保护电路，从而使本工具停下。

发生这种情况时，请让本工具冷却一段时间。

温度下降后可再次使用本工具。在持续作业期间需更换充电电池时，请让本工具停下约15分钟。

过载保护

本工具带有过载保护电路以保护控制本工具的电子元件。在割草作业期间(锁固尼龙头等)持续过载时，过载保护电路会使马达停下。发生这种情况时，请断开电源，然后解决造成过载的问题。

马达停下后如果按下控制杆，电源指示灯会闪烁(参见第14页“有关电源指示灯”)。如果电源指示灯闪烁5秒钟以上，电源会自动断开。发生这种情况时，请解决造成过载的问题，然后将电源按钮设为开启(ON)，恢复使用本工具。

维护和检查

注意！

在进行任何检查或维护前请拉出电池。

1. 检查尼龙头的情况

应定期检查尼龙头。如果磨损或损坏，尼龙头会打滑或降低马达的效率并烧毁马达。

请将磨损的尼龙头换成新的。

注意！

使用尖端已磨损或损坏的尼龙头很危险。请更换成新的。

2. 检查螺丝

螺丝松弛很危险。请定期检查螺丝，确认是否拧紧。

注意！

在螺丝松弛的情况下使用本电动工具非常危险。

3. 检查炭刷（图 27）

发动机使用的炭刷是一种耗材。由于过度磨损的炭刷会造成发动机故障，因此，当炭刷严重磨损或接近“磨损限制”时，请换上新炭刷。另外，始终保持炭刷清洁，确保其在炭刷槽内可以自如滑动。

注：

更换新炭刷时，务必使用 HiKOKI 999016 型号的炭刷。

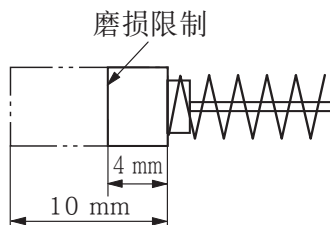


图 27

4. 更换炭刷

如图 28 所示，通过先取下刷帽然后用一字螺丝刀等勾住炭刷的突出物来取出炭刷。

安装炭刷时，请选择方向，使得炭刷的钩扣(参见图 29)与刷管的接触部分啮合。然后如图 30 所示地用一个手指推炭刷。最后装上刷帽。

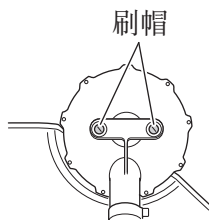


图 28

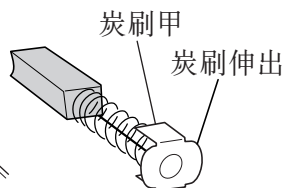


图 29

注意！

- 必须保证将炭刷甲插入到炭刷管外面的接触部分。（您可以插入所附带两个炭刷甲中的任何一个。）
- 必须多加小心，因为操作错误可能会造成炭刷甲变形，并造成发动机在早期发生故障。

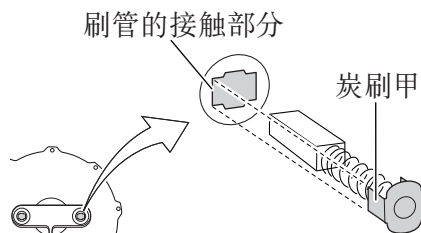


图 30

5. 清理外部

割草机沾污时，用干软布或沾肥皂水的布擦拭。切勿使用氯溶液、汽油或稀释剂，以免塑胶部分溶化。

6. 收藏

割草机应收藏于温度低于40℃和小孩拿不到的地方。

注:

在电池长期存放（3 个月或更长）后务必给电池完全充电。如果长期存放后使用，容量小的电池可能无法充电。

7. 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。

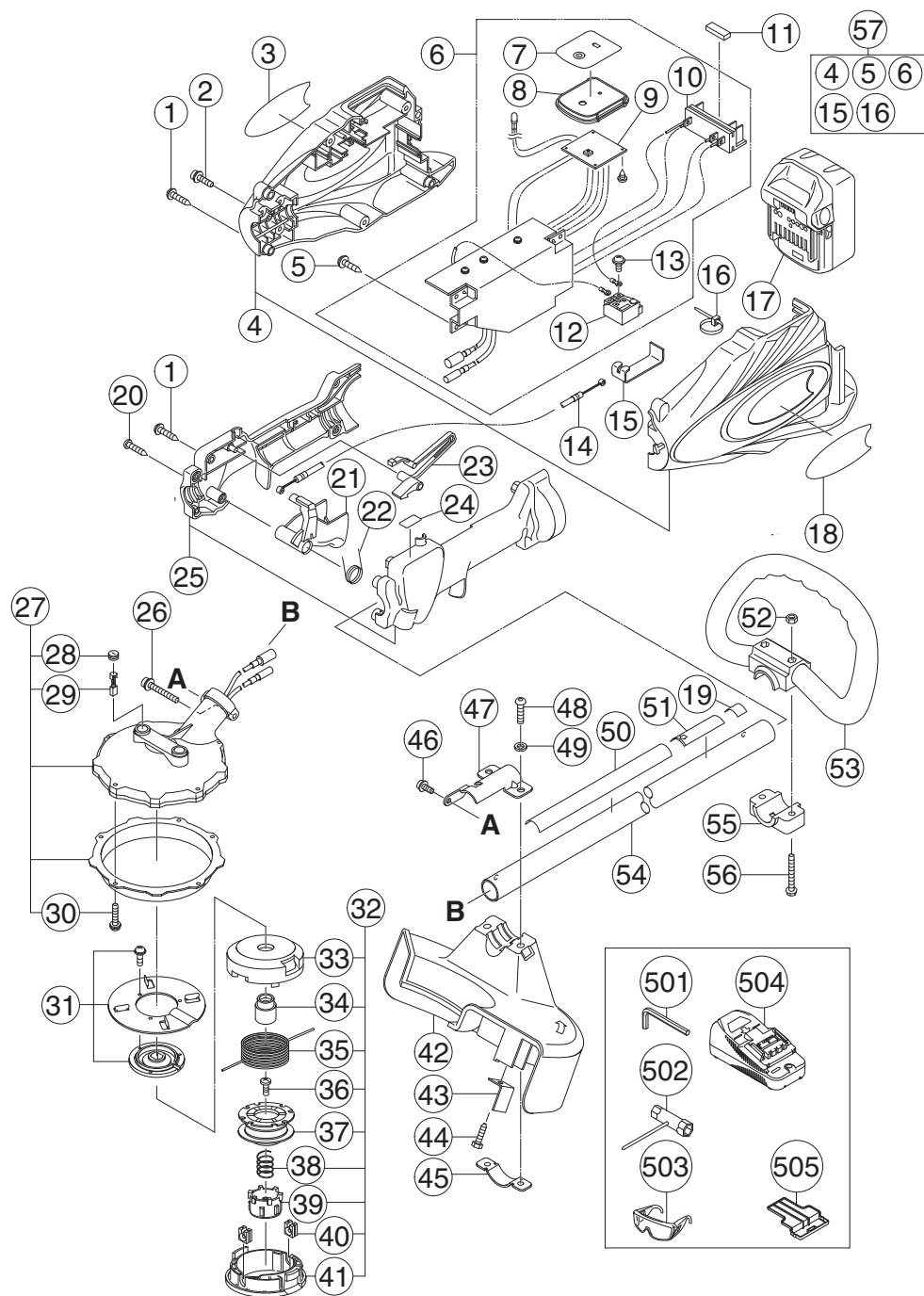
故障排除

如果工具操作不正常，请使用下表中的检查步骤。如果未能解决问题，请向经销商或HiKOKI公司授权服务中心咨询。

| | 现象 | 可能的原因 | 解决办法 |
|-----|------------------|-------------------------------------|--|
| 充电器 | 充电灯不亮。 | 电源插头未连接到交流电源插座。 | 将电源插头连接到交流电源插座。 |
| | | 电池未正确连接到充电器。 | 插入电池，使其位于充电器中的正确位置。 |
| | | 电池或充电器电极锈蚀或接触不良。 | 使用棉花球或其它物品清洁电极。 |
| | | 电池过热。 | 让电池充分冷却下来后再充电。 |
| | 充电 4 小时后充电灯仍然不灭。 | 电池或充电器故障。 | 拨下电源插头，并向经销商或HiKOKI公司授权服务中心咨询。 |
| 工具 | 不工作。 | 充电电池耗尽。 | 给充电电池充电。 |
| | | 未正确装入充电电池。 | 从本工具的电池舱内取出充电电池，检查和去除所有外物。并检查电池电极是否沾有污物、水或其它外物。用棉签清洁。确认充电电池被按入直至发出咔嗒的响声。 |
| | | 未接通电源。 | 按下外罩上的电源按钮起动本工具。本工具具有自动断开电源的功能。如果接通电源后在1分钟内无人拉控制杆，电源会自动断开。要再次打开本工具时，请再次按下电源按钮。 再次按下电源按钮，断开电源。 |
| | | 往后拉控制杆时未按下锁固杆。 | 为了防止不正确操作引起的事故，必须边往后拉控制杆边按下锁固杆以起动马达。 从上面握住手柄，边拉手柄边按下锁固杆。 |
| | | 本工具拖拉着大量的草，这些草缠在盖子和尼龙龙头之间，从而使本工具过载。 | 这是保护充电电池功能的作用，当本工具过载时会关闭马达。请关闭本工具，并去除过载的原因。再次按下电源按钮以继续作业。 |

| | 现象 | 可能的原因 | 解决办法 |
|----|------------|----------------|-------------------------------------|
| 工具 | 开始工作后立即停下。 | 充电电池电量不足。 | 给充电电池充电。 |
| | | 充电电池过热。 | 停止使用充电电池，将其从本工具中取出，并将其放在通风良好的阴凉处冷却。 |
| | 强烈震动 | 未将环状柄正确安装在主管上。 | 正确固定。 |
| | | 未将盖子正确安装在主管上。 | 正确固定。 |

维修零部件一览表



| 项目号 | 零件名称 | 数量 |
|-----|---------------------|----|
| 1 | 自攻螺丝（附法兰） D4×20 | 15 |
| 2 | 内六角螺栓M5×16 | 1 |
| 3 | 名牌 | 1 |
| 4 | 外罩（A）、（B）组 | 1 |
| 5 | 自攻螺丝（附法兰）D3.5 | 4 |
| 6 | 控制器总成 | 1 |
| 7 | 面板片 | 1 |
| 8 | 外罩板 | 1 |
| 9 | 开关印刷电路板总成 | 1 |
| 10 | 电池端子 | 1 |
| 11 | 填料 | 1 |
| 12 | 开关 | 1 |
| 13 | 机用螺丝（附垫圈） M3.5×5 | 2 |
| 14 | 电线 | 1 |
| 15 | 板 | 1 |
| 16 | 箍 | 1 |
| 17 | 电池（BSL1830） | 1 |
| 18 | 品牌标签 | 1 |
| 20 | 自攻螺丝D4×20 | 1 |
| 21 | 控制杆 | 1 |
| 22 | 弹簧 | 1 |
| 23 | 锁固杆 | 1 |
| 24 | 标签（D） | 1 |
| 25 | 手柄（A）（B）组 | 1 |
| 26 | 六角带孔螺栓M5×30/WS | 1 |
| 27 | 盘式马达总成 | 1 |
| 28 | 刷帽 | 2 |
| 29 | 炭刷 | 2 |
| 30 | 机用螺丝M4×16 | 5 |
| 31 | 法兰总成 | 1 |

| 项目号 | 零件名称 | 数量 |
|-----|----------------------|----|
| 32 | 尼龙头 | 1 |
| 33 | 盖子 | 1 |
| 34 | 轴 | 1 |
| 35 | 尼龙绳 | 1 |
| 36 | 固定螺丝 | 1 |
| 37 | 卷轴 | 1 |
| 38 | 复位弹簧 | 1 |
| 39 | 按钮 | 1 |
| 40 | 绳导架 | 1 |
| 41 | 外壳 | 1 |
| 42 | 盖子 | 1 |
| 43 | 刀具 | 1 |
| 44 | 六角自攻螺丝D5×20 | 1 |
| 45 | 锯片盖子支架 | 1 |
| 46 | 六角带孔螺栓M5×12/S | 1 |
| 47 | 盖子托架 | 1 |
| 48 | 内六角头螺栓(附按钮) M6×25 | 2 |
| 49 | 弹簧垫圈M6 | 2 |
| 50 | 警告标签（B） | 1 |
| 51 | 控制杆标记（B） | 1 |
| 52 | 螺帽M6 | 2 |
| 53 | 环状柄总成 | 1 |
| 54 | 主管 | 1 |
| 55 | 手柄支架（A） | 1 |
| 56 | 螺栓M6 | 2 |
| 501 | 六角扳手 | 1 |
| 502 | 套筒扳手 | 1 |
| 503 | 护目镜 | 1 |
| 504 | 充电器（UC18YGSL） | 1 |
| 505 | 电池盖 | 1 |

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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.

English

- 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) 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.

GRASS TRIMMER SAFETY WARNINGS

IMPORTANT

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

Safe operation practices

● Training

- a) Read the instructions carefully. Be familiar with the controls and the proper use of the machine.**
- b) Never allow people unfamiliar with these instructions or children to use the machine. Local regulations can restrict the age of the operator.**
- c) Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.**

● Preparation

- a) Never operate the machine while people, especially children, or pets are nearby.**
- b) Wear eye protection and stout shoes at all times while operating the machine.**

English

● Operation

- a) Use the machine only in daylight or good artificial light.
- b) Never operate the machine with damaged cover or without cover in place.
- c) Switch on the motor only when the hands and feet are away from the cutting means.
- d) Always disconnect the machine from the power supply (i.e. remove the plug from the mains or remove the disabling device)
 - whenever leaving the machine unattended;
 - before clearing a blockage;
 - before checking, cleaning or working on the machine;
 - after striking a foreign object;
 - whenever the machine starts vibrating abnormally.
- e) Take care against injury to feet and hands from the cutting means.
- f) Always ensure that the ventilation openings are kept clear of debris.

● Maintenance and storage

- a) Disconnect the machine from the power supply (i.e. remove the plug from the mains or remove the disabling device) before carrying out maintenance or cleaning work.
- b) Use only the manufacturer's recommended replacement parts and accessories.
- c) Inspect and maintain the machine regularly. Have the machine repaired only by an authorized repairer.
- d) When not in use, store the machine out of the reach of children.

PRECAUTIONS FOR CORDLESS GRASS TRIMMER

WARNING

- 1. Exercise patience in all work with the tool. And dress properly to keep warm.
- 2. Plan all work ahead to prevent accidents.
- 3. Do not operate the tool at night or under bad weather conditions when visibility is poor. And do not operate the tool when it is raining or right after it has been raining.
Working on slippery ground could lead to an accident if you lose your balance.
- 4. Inspect the nylon head before starting work.
Do not use the tool if the nylon head is cracked, scarred or bent. Make sure the nylon head is properly attached. A nylon head that falls apart or comes loose during operation could cause an accident.
- 5. Be sure to attach the cover before starting work.
Operating the tool without this parts could lead to injury.

6. Be sure to attach the loop handle before starting work. Make sure it is not loose but properly attached before starting work. Hold the loop handle firmly during work and do not swing the tool around, but use the correct posture and maintain your balance. Losing your balance during work could lead to an injury.
7. Take care when starting the motor.
Place the tool on level ground.
Do not operate the tool within 15 m of people or animals.
Make sure that the nylon head does not come into contact with the ground or trees and plants.
A careless start could lead to injury.
8. Do not secure the lock lever.
Accidentally pulling back the lever could lead to unexpected injury.
9. Before leaving the tool, press the power button to turn it off.
10. Operate the tool with care near electric cables, gas pipes and similar installations.
11. Look out for and remove empty cans, wire, stones or other obstacles before starting work. And do not work near tree roots or rocks.
Working in such areas could damage the nylon head or lead to injury.
12. Never touch the nylon head during operation.
Also make sure it does not come into contact with your hair, clothes, etc.
13. In the following situations, turn off the motor and check that the nylon head has stopped rotating.
To move to another work area.
To remove rubbish or grass that has become stuck in the tool.
To remove from the work area obstacles or the rubbish, grass and chips generated by trimming.
To lay down the tool.
Doing this with the nylon head still rotating could lead to unexpected accidents.
14. Do not use the tool within 15 m of another person.
When you work with someone else, maintain a distance of more than 15 m.
Flying chips could lead to unexpected accidents.
When working on unstable surfaces like slopes, make sure that your co-worker is not exposed to any hazards.
Use whistles or other means for calling the attention of your co-workers.
15. When grass and other objects become entangled in the nylon head, turn off the motor and make sure the nylon head has stopped rotating before removing them.

English

Removing objects from the nylon head when it is still rotating will lead to injury.

Continuing operation when foreign matter is stuck in the nylon head may lead to damage.

16. If the tool is operating poorly and produces strange noise or vibrations, turn off the motor immediately and ask your dealer to have it inspected and repaired.
Continued use under these conditions could lead to injury or tool damage.
17. If you drop or bump the tool, inspect it carefully to check there is no damage, cracks or deformation.
Using a tool that is damaged, cracked or deformed could result in injury.
18. Secure the tool during vehicle transport to ensure that it lies still.
Failure to heed this warning may result in an accident.
19. This product contains a strong permanent magnet in the motor.
Observe the following precautions regarding adhering of chips to the tool and the effect of the permanent magnet on electronic devices.

CAUTION

- Do not place the tool on a workbench or work area where metal chips are present.
The chips may adhere to the tool, resulting in injury or malfunction.
- If chips have adhered to the tool, do not touch it. Remove the chips with a brush.
Failure to do so may result in injury.
- If you use a pacemaker or other electronic medical device, do not operate or approach the tool.
Operation of the electronic device may be affected.
- Do not use the tool in the vicinity of precision devices such as cell phones, magnetic cards or electronic memory media.
Doing so may lead to misoperation, malfunction or loss of data.

CAUTION

1. Do not turn on the nylon head for cutting objects other than grass.
Do not operate the tool in water puddles and make sure that soil does not come into contact with the nylon head.
2. The tool contains precision parts and should not be dropped, exposed to strong impact or water.
The tool could be damaged or malfunction.
3. When the tool is to be stored after use or be transported, remove the nylon head.
4. Do not expose the tool to insecticide and other chemicals.

Such chemicals could cause cracking and other damage.

5. Replace warning labels with new labels when they become difficult to recognize or illegible and when they start to peel. Ask your dealer to provide the warning labels.
6. Do not touch the motor immediately after use since it may be very hot.

PRECAUTIONS FOR BATTERY AND CHARGER

1. Always charge the battery at a temperature of 0°C – 40°C. A temperature of less than 0°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°C – 25°C.
2. When one charging is completed, leave the charger for about 15 minutes before the next charging of battery.
Do not charge more than two batteries consecutively.
3. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
4. 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.
5. Using an exhausted battery will damage the charger.
6. 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.
7. Never disassemble the rechargeable battery and charger.
8. 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.
9. Do not dispose of the battery in fire. If the battery is burnt, it may explode.

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.

WARNING

If an electrically conductive foreign object enters the terminals of the lithium ion battery, a short-circuit may occur resulting in the risk of fire. Please observe the following matters when storing the battery.

- Do not place electrically conductive cuttings, nails, steel wire, copper wire or other wire in the storage case.
- Either install the battery in the power tool or store by securely pressing into the battery cover until the ventilation holes are concealed to prevent short-circuits (See Fig. 1).

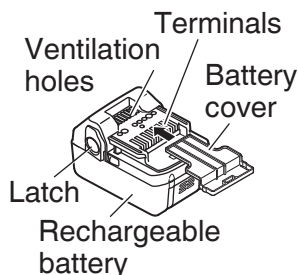


Fig. 1

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 | CG18DSDL |
| Pole type | Straight type |
| Cutting capacity diameter | 310 mm |
| Rotation direction | Counterclockwise as seen from above |
| No-load speed | 5000 /min |
| Operating time on one charge *1 (When supplied rechargeable battery is fully charged) | 23 – 32 min*2 |
| Battery | BSL1830: Li-ion 18 V (3.0 Ah 10 cells) |
| Weight (with nylon head, rechargeable battery and cover) | 4.3 kg |

*1 The data in the above table is provided only as an example. Since type of grass, ambient temperature, rechargeable battery characteristics, work methods, etc. can vary widely the above should only be used as a rough guideline.

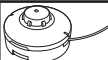






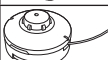




*2 Conditions: Outer diameter of nylon head 310 mm, switch set to full speed. (switch left ON all the time)

CHARGER

| | |
|------------------|---------------|
| Model | UC18YGSL |
| Charging voltage | 14.4 V – 18 V |
| Weight | 0.4 kg |

STANDARD ACCESSORIES

CG18DSDL has two types which are designated as NN and LEG. For their respective accessories, see the Table below.

| | | |
|-------------------|---|----------------------------------|
| CG18DSDL (NN) |  | ① Nylon head 1 |
| |  | ② Cover 1 |
| |  | ③ Hex. bar wrench 4 mm 1 |
| |  | ④ 17×19 Combi box wrench 1 |
| |  | ⑤ Protective glass 1 |
| CG18DSDL (LEG) |  | ① Battery (BSL1830) 1 |
| |  | ② Charger (UC18YGSL) 1 |
| |  | ③ Nylon head 1 |
| |  | ④ Cover 1 |
| |  | ⑤ Hex. bar wrench 4 mm 1 |
| |  | ⑥ 17×19 Combi box wrench 1 |
| |  | ⑦ Protective glass 1 |

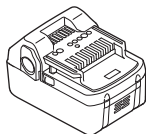
[Included items]

The following items are supplied with the product (used for assembly of each part). See PRIOR TO OPERATION (P. 42) and NYLON HEAD (P. 43) for instructions on how to attach the items below.

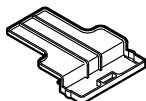
| | |
|--|---|
| ① Cover holder. | 1 |
| ② M6 × 25 hex. socket button bolt..... | 2 |
| ③ M6 spring washer | 2 |
| ④ Knife | 1 |
| ⑤ D5 tapping screw..... | 1 |
| ⑥ Loop handle | 1 |
| ⑦ Handle fixture | 1 |
| ⑧ M6 × 43 bolt | 2 |
| ⑨ M6 nut | 2 |
| ⑩ Flange ass'y | 1 |

OPTIONAL ACCESSORIES (sold separately)

1. Battery (BSL1830)



2. Battery cover



APPLICATIONS

Trimming, scaling and mowing of weed.

BATTERY REMOVAL/INSTALLATION

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

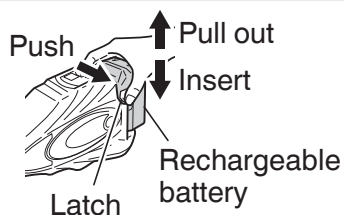


Fig. 2

CAUTION

Never short-circuit the battery.

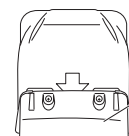
2. Battery installation
Insert the battery while observing its polarities (see **Fig. 2**).

CHARGING

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

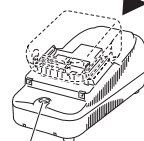
1. Connect the charger's power cord to a receptacle.
When connecting the plug of the charger to a receptacle, the pilot lamp will blink in red (At 1-second intervals).
2. Insert the battery into the charger.
Firmly insert the battery into the charger as shown in **Fig. 3** and **4**.

Rechargeable battery



After insert

Rechargeable battery



Pilot lamp

Fig. 3

Fig. 4

3.

When inserting a battery in the charger, the pilot lamp will light up continuously in red.






When the battery becomes fully recharged, the pilot lamp will blink in red (At 1-second intervals).

(See Table 1)

(1)

The indications of the pilot lamp will be as shown in **Table 1**, according to the condition of the charger or the rechargeable battery.

Table 1

| Indications of the pilot lamp | | | | |
|-------------------------------|---------------------|----------|--|---|
| Pilot lamp (red) | Before charging | Blinks | Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds)  | |
| | While charging | Lights | Lights continuously  | |
| | Charging complete | Blinks | Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds)  | |
| | Overheat standby | Blinks | Lights for 1 second. Does not light for 0.5 seconds. (off for 0.5 seconds)  | Battery overheated. Unable to charge (Charging will commence when battery cools). |
| | Charging impossible | Flickers | Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds)  | Malfunction in the battery or the charger |

(2)

The temperatures for rechargeable batteries are as shown in the **Table 2**, and batteries that have become hot should be cooled for a while before being recharged.

Table 2 Recharging ranges of batteries

| |
|--|
| Temperatures at which the battery can be recharged |
| 0°C – 50°C |

English

- (3) Regarding recharging time
Table 3 shows the recharging time required according to the type of battery.

Table 3 Charging time (At 20°C)

| Battery \ Charger | UC18YGSL |
|-------------------|-----------------|
| | BSL1830 |
| | Approx. 90 min. |

NOTE

- The recharging time may vary according to the ambient temperature.
4. Disconnect the charger’s power cord from the receptacle.
5. 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.

Regarding electric discharge in case of new batteries, etc.

As the internal chemical substance of new batteries and batteries that have not been used for an extended period is not activated, the electric discharge might be low when using them the first and second time. This is a temporary phenomenon, and normal time required for recharging will be restored by recharging the batteries 2 – 3 times.

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

- **If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the pilot lamp of the charger lights for 1 second, does not light for 0.5 seconds (off for 0.5 seconds). In such a case, first let the battery cool, then start charging.**

- When the pilot lamp flickers (at 0.2-second intervals), check for and take out any foreign objects in the charger's battery connector. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.
- Since the built-in micro computer takes about 3 seconds to confirm that the battery being charged with UC18YGSL is taken out, wait for a minimum of 3 seconds before reinserting it to continue charging. If the battery is reinserted within 3 seconds, the battery may not be properly charged.

ABOUT POWER LAMP

The power lamp indicates various statuses for the tool. (**Fig. 5**)

Table 4 shows the various statuses indicated by the power lamp.

Table 4

| State of lamp | Status of Tool |
|----------------------|--|
| Off | Power OFF |
| Red | Power ON |
| Blinking red | The over-heat protection circuit of the tool is operating. |
| | The lever is being pressed while the overload protection circuit of the tool is operating. |
| Quickly blinking red | The tool is operating abnormally. |

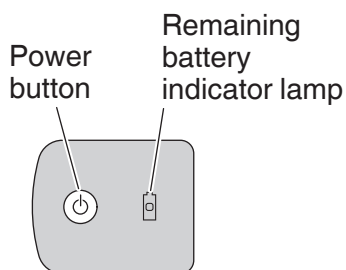




Fig. 5

ABOUT REMAINING BATTERY INDICATOR

The remaining battery lamp blinks when the remaining battery power is low. Please charge the tool as soon as possible. The **Table 5** shows the state of remaining battery indicator lamp and the battery remaining power.

Table 5

| State of lamp | Battery Remaining Power |
|---|--|
|  | The battery remaining power is enough. |
|  | The battery remaining power is nearly empty. Re-charge the battery soonest possible. |

As the remaining battery indicator shows somewhat differently depending on ambient temperature and battery characteristics, read it as a reference.

English

NOTE

Do not give a strong shock to the switch panel or break it. It may lead to a trouble.

PRIOR TO OPERATION

CAUTION

Pull out battery before doing any assembly.

1. Installing the loop handle (**Fig. 6**)
 - (1) Remove the M6 × 43 bolts (2 pcs.).
 - (2) Install the loop handle on the main pipe so that it leans against the housing.
 - (3) Place the handle fixture at the lower end of the main pipe and secure it firmly using M6 × 43 bolts (2 pcs.) and M6 nuts (2 pcs.).

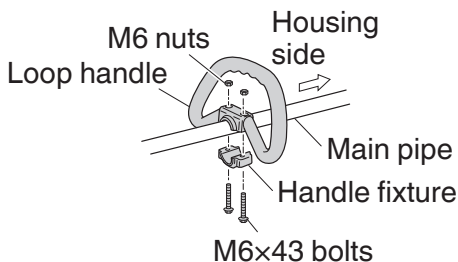


Fig. 6

NOTE

Secure the loop handle in a location that provides a good grip.

CAUTION

Install the loop handle properly and securely as instructed in the handling instructions.

If not attached properly or securely, it may come off and cause injury.

2. Installing cover (See **Fig. 7** and **8**)

WARNING

Be sure to install the cover in its designated location.

Failure to heed this warning may result in injury from flying stones.

NOTE

Use the supplied hex. bar wrench 4 mm for installation.

- (1) Use the supplied D5 tapping screw to install the knife in the cover. (**Fig. 7**)

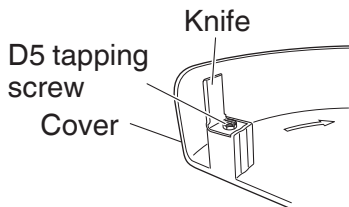


Fig. 7

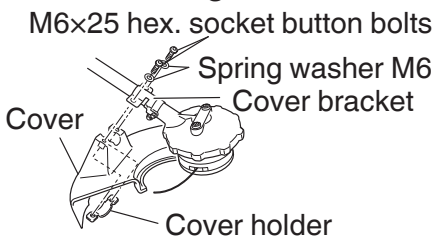


Fig. 8

- (2) Align the two holes in the cover bracket and the cover and insert two M6 × 25 hex. socket button bolts passed through a M6 spring washer respectively. (The cover bracket is installed in the motor case.)
- (3) Place the cover holder on the underside of the cover and use the supplied hex. bar wrench 4 mm to alternately tighten the two M6 × 25 hex. socket button bolts until they are properly tightened.

CAUTION

- **Take care to avoid cutting yourself on the knife inside the cover.**
- **Install the cover and knife properly and securely as instructed in the handling instructions.**
If not attached properly or securely, they may come off and cause injury.

NYLON HEAD

Installation of semi-auto nylon head

1. Function

Automatically feeds more nylon cutting line when it is tapped.

Specifications

| Code No. | Type of attaching screw | Direction of rotation | Size of attaching screw |
|----------|-------------------------|-----------------------|-------------------------|
| 333903 | Female screw | Counterclockwise | M10×P1.25-LH |

Applicable nylon cord

Cord diameter: $\Phi 1.4$ mm

Length: 6 m

CAUTION

- **The case must be securely attached to the cover.**
- **Check the cover, case and other components for cracks or other damage.**
- **Check the case and button for wear.**
If the wear limit mark on the case is no longer visible or there is a hole in the bottom of the button, change the new parts immediately. (Fig. 9)
- **The nylon head must be securely mounted to the threaded fastener of the motor case.**

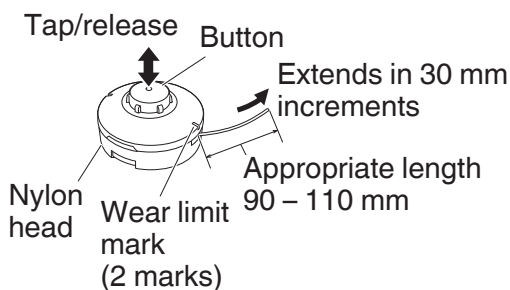


Fig. 9

English

- For outstanding performance and reliability, always use HIKOKI nylon cutting line. Never use wire or other materials that could become a dangerous projectile.
- If the nylon head does not feed cutting line properly, check that the nylon line and all components are properly installed. Contact your HIKOKI dealer if you need assistance.

2. Installation (Fig. 10 and 11)

- (1) Insert the flange ass'y into the motor case. At this time, the wing of the flange ass'y should face the motor case side. Next, align the holes of the flange ass'y and the motor case, insert the hex. bar wrench 4 mm, and then turn to tighten the flange ass'y.

- (2) Screw the nylon head directly to the threaded fastener of the motor case.

The mounting nut of nylon head is left-hand-threaded. Turn clockwise to loosen/ counterclockwise to tighten.

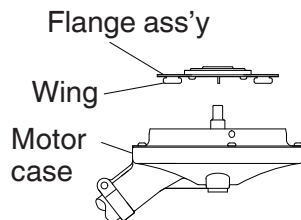


Fig. 10

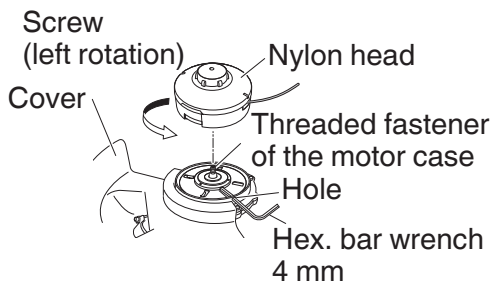


Fig. 11

CAUTION

Install the nylon head properly and securely as instructed in the handling instructions. If not attached properly or securely, it may come off and cause injury.

3. Adjustment of line length
Rotate and tap the nylon head on the ground. Nylon line is drawn out abt, 30 mm by one tapping. (Fig. 12)
Also, you can extend nylon line with hands. This time the motor must be completely stopped. Confirm the line extends in 30 mm increments by "tapping" and "releasing" the bottom button while pulling the line ends of the nylon head. (Fig. 13)

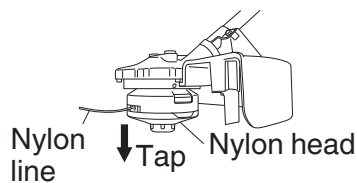


Fig. 12

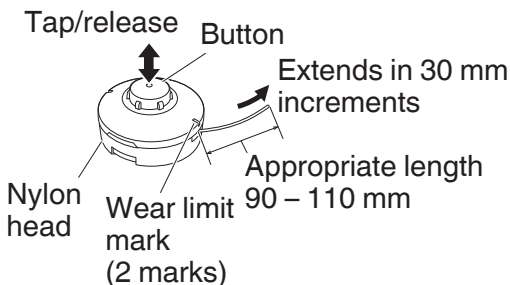
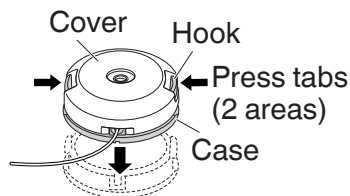
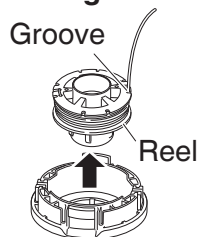
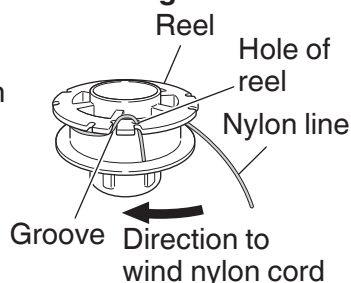
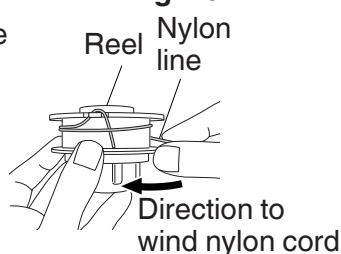
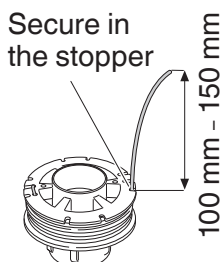
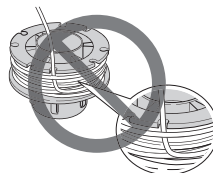


Fig. 13

- Appropriate Length of Nylon Line
The appropriate length of the line when the tool is in use is 90 – 110 mm. Extend the line to the appropriate length.
- 4. Nylon line replacement
 - (1) Prepare $\phi 1.4$ mm \times 6 m of genuine nylon line (Code No.333923).
 - (2) Press the opposing tabs, and then remove the cover from the case. (**Fig. 14**)
 - (3) Remove the reel from the case. (**Fig. 15**)
 - If there is nylon line remaining, hook the line in the grooves, and then remove the reel.
 - If the nylon line does not extend when there is enough nylon line remaining, or when replacing the nylon line (Code No.333923), wind the nylon line using the following procedure.
 - (4) As shown in **Fig. 16** and **17**, draw the nylon line through the hole of the reel and hook it in the groove of the reel, and then wind the line in the direction of the arrow so that the nylon line does not cross.
 - (5) Leave about 100 mm – 150 mm nylon cord unwound, hook and secure the line in the stopper. (**Fig. 18**)

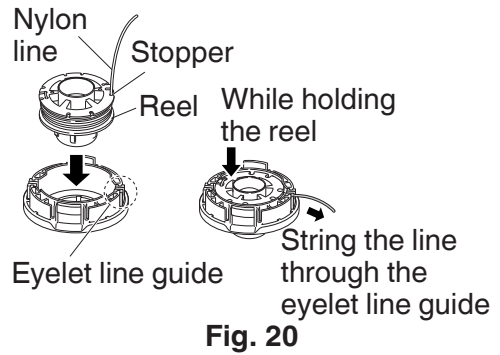
NOTE

Do not cross the nylon line when securing the line in the stopper. (**Fig. 19**)

**Fig. 14****Fig. 15****Fig. 16****Fig. 17****Fig. 18****Fig. 19**

English

- (6) Align the position of the stopper and eyelet line guide, and then insert the button through the case. Release the line from the stopper while holding the reel lightly, and then string the line through the eyelet line guide. (**Fig. 20**)
- (7) Press and snap the tabs of the case in the locking holes of the cover. (**Fig. 21**)

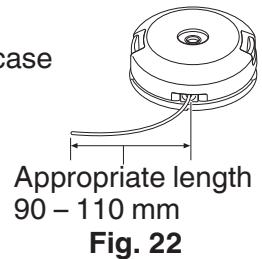
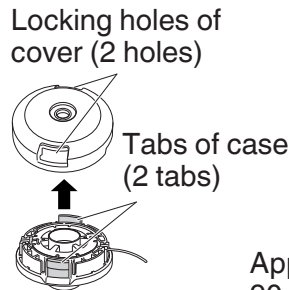


WARNING

Check to make sure the tabs are firmly snapped into the locking holes.

Operating the tool while the parts are not firmly snapped together may result in accidents or injury from flying part.

- (8) Pull the line taught so there is no slack, and then cut the line to an extended length of 90 mm – 110 mm with scissors. (**Fig. 22**)



OPERATION

Trimming grass

WARNING

- **Do not operate the tool at night or under bad weather conditions when visibility is poor.**
- **Do not operate the tool when it is raining or right after it has been raining.**
- **Wear proper footwear to prevent slipping that could cause you to lose your balance and fall.**
- **Do not use the tool on steep slopes.**
When trimming grass on slopes that are not so steep, trim by moving towards the ridge.
- **Place the right hand on the handle and the left hand on the loop handle and hold it firmly.**
- **Take care not to move the nylon head too close to your feet.**
- **Do not raise the nylon head above your knee during cutting.**

- Do not use the tool where the nylon head may come into contact with stones, tree and other obstacles.
- A nylon head can injure while it continues to spin after the motor is stopped. When the unit is turned off, make sure the nylon head has stopped before the unit is set down.
- Do not use the tool within 15 m of another person. When you work with someone else, maintain a distance of more than 15 m.

1. Insert the battery while observing its polarities.
2. Turn on the tool. (**Fig. 23**)
- Press the power button on the housing, the power goes on and the power lamp on the handle lights red.
- Pressing the power button a second time turns the power off and the red lamp on the handle goes off.

[Auto power off]

When the power is turned on but the lever is not used for one minute, the tool is automatically turned off. To turn the tool on again, press the power button a second time.

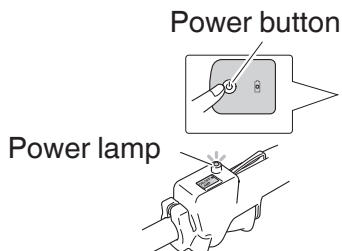


Fig. 23

WARNING

Never leave the tool with the power on. This could result in an accident.

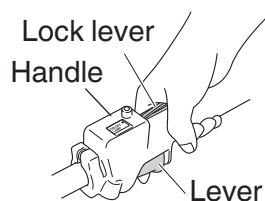


Fig. 24

3. Trimming grass
- Grip the handle from above, press the lock lever and pull the lever to start nylon head rotation. (**Fig. 24**)
- Release the lever when you finish trimming and stop the motor.
- Place your thumb on the loop handle and grip the handle with your other fingers. (**Fig. 25**)
- Take a posture that makes it easy to move.

[Grass trimming techniques]

Do not swing the pipe, but use the hips to move the nylon head horizontally from right to left in an arc while going forward and use the left side of the nylon head for cutting grass. (**Fig. 26**)

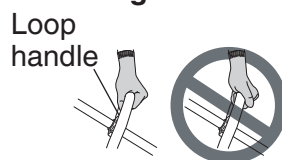


Fig. 25

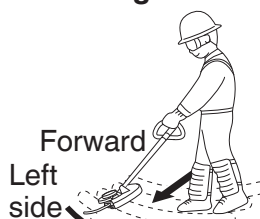


Fig. 26

OPERATIONAL CAUTIONS

Continuous work

This tool comes with an over-heat protection circuit that protects the electronic parts that control the rechargeable battery. In continuous trimming work, tool temperature will rise and eventually trigger the over-heat protection circuit, which will shut down the tool.

If this happens, let the tool cool for a length of time. When the temperature drops, it will again become possible to use the tool. When the rechargeable battery has to be exchanged during continuous operation, let the tool rest for about 15 minutes.

Overload Protection

This tool comes with an overload protection circuit to protect the electronic parts controlling the tool. In continuous overload during trimming work (locking the nylon head, etc.), the overload protection circuit shuts down the motor. If this happens, turn OFF the power, and then resolve the problem causing the overload.

The power lamp blinks if the lever is pressed after the motor has stopped (see page 40, "ABOUT POWER LAMP"). The power automatically turns OFF if the power lamp blinks longer than 5 seconds. If this happens, resolve the problem causing the overload, and then switch the power button ON to resume using the tool.

MAINTENANCE AND INSPECTION

CAUTION

Pull out battery before doing any inspection or maintenance.

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

CAUTION

If you use a nylon head of which point is worn or broken, it will be dangerous. So replace it with a new one.

2. Check the Screws
Loose screws are dangerous. Regularly inspect them and make sure they are tight.

CAUTION

Using this power tool with loosened screws is extremely dangerous.

3. Inspecting the carbon brushes (**Fig. 27**)
The motor employs carbon brushes which are consumable parts. Since and excessively worn carbon brush can result in motor trouble, replace the carbon brush with new ones when it becomes worn to or near the "wear limit". In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

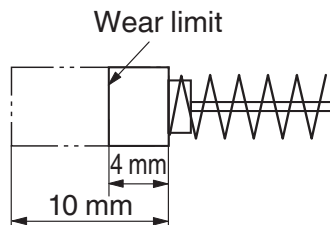


Fig. 27

NOTE

When replacing the carbon brush with a new one, be sure to use the HIKOKI Carbon Brush Code No. 999016.

4. Replacing carbon brushes
Take out the carbon brush by first removing the brush cap and then hooking the protrusion of the carbon brush with a slotted head screw driver, etc., as shown in **Fig. 28**.

When installing the carbon brush, choose the direction so that the nail of the carbon brush (see **Fig. 29**) agrees with the contact portion of brush tube. Then push it in with a finger as illustrated in **Fig. 30**. Lastly, install the brush cap.

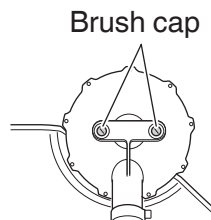


Fig. 28

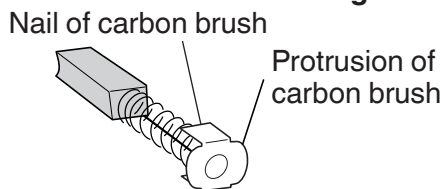


Fig. 29

CAUTION

- Be absolutely sure to insert the nail of the carbon brush into the contact portion of brush tube. (You can insert whichever one of the two nails provided.)
- Caution must be exercised since any error in this operation can result in the deformed nail of the carbon brush and may cause motor trouble at an early stage.

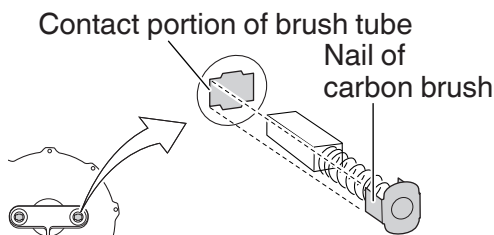


Fig. 30

5. Cleaning of the outside
When the grass trimmer 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.

English

6. Storage
- Store grass trimmer in a place in which the temperature is less than 40°C and out of reach of children.

NOTE

Make sure that the battery is fully charged when stored for a long period (3 months or more). The battery with smaller capacity may not be able to be charged when used, if stored for a long period.

7. 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).

TROUBLESHOOTING

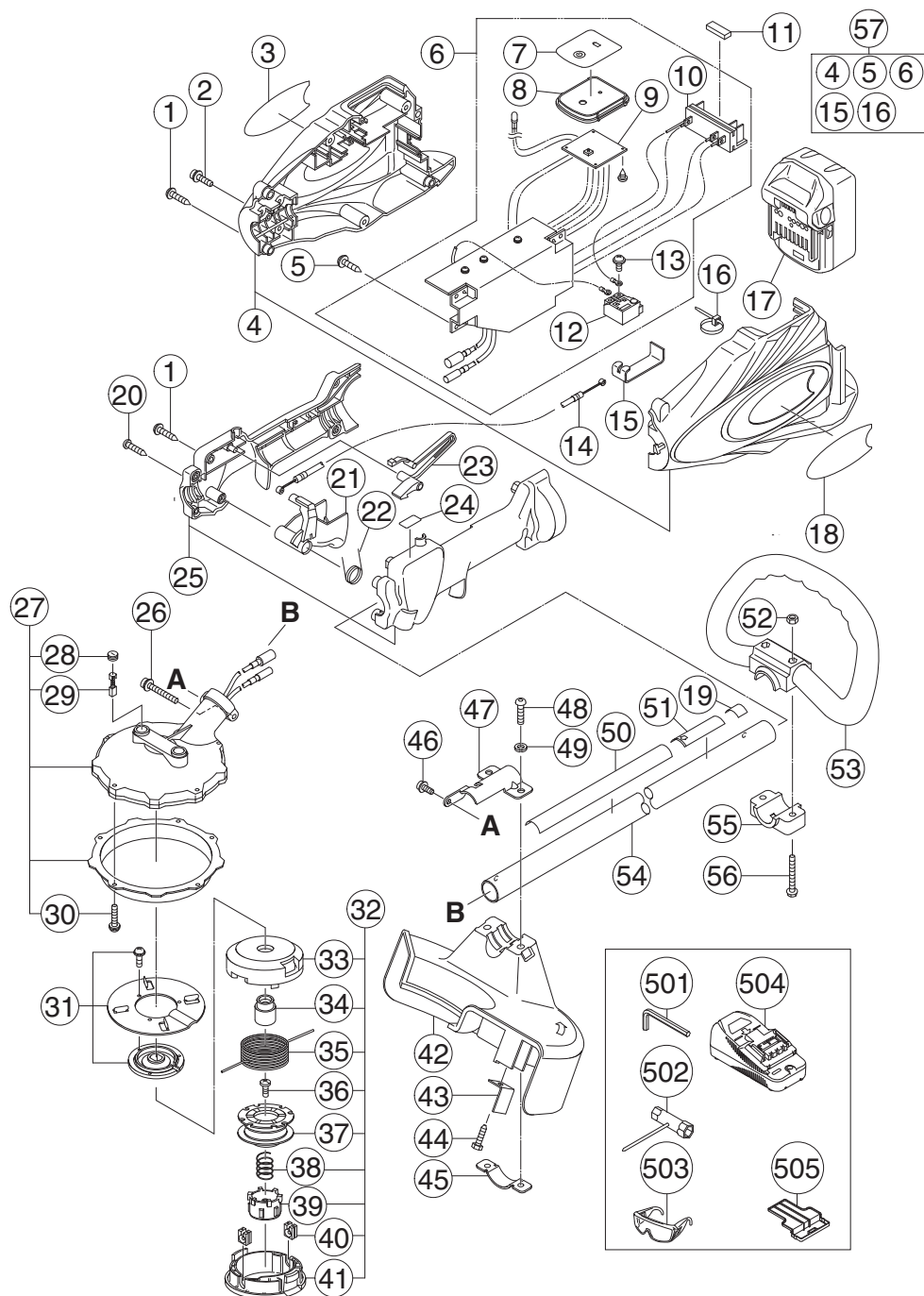
Use the inspections in the table below if the tool does not operate normally. If this does not remedy the problem, consult your dealer or the HiKOKI Authorized Service Center.

| | Symptom | Possible cause | Remedy |
|---------|---------------------------------|---|--|
| Charger | The Charge lamp does not go on. | The power plug is not connected to an AC outlet. | Connect the power plug to an AC outlet. |
| | | The battery is not properly connected to the charger. | Insert the battery so that it is properly seated in the charger. |

| | Symptom | Possible cause | Remedy |
|---------|--|---|---|
| Charger | The Charge lamp does not go on. | The battery or charger electrodes are soiled. | Use a cotton swab or other tool to clean the electrodes. |
| | | The battery is extremely hot. | Allow the battery to properly cool before charging. |
| | The Charge lamp does not go off after 4 hours of charging. | The battery or charger is faulty. | Disconnect the power plug and consult your dealer or the HiKOKI Authorized Service Center. |
| Tool | Does not operate. | The rechargeable battery is depleted. | Charge the rechargeable battery. |
| | | The rechargeable battery has not been properly installed. | Remove the rechargeable battery from the battery compartment in the tool and check for and remove any foreign matter. Also check the battery electrodes for soiling, water or other foreign matter. Use a cotton swab for cleaning. Make sure that the rechargeable battery is pressed in until it clicks into place. |
| | | The power has not been turned on. | Press the power button on the housing to start the tool. This tool comes with an auto power off function. The power is automatically turned off if nobody pulls the lever during a one minute period after power on. To turn the tool on again, press the power button a second time. Pressing the power button a second time turns the power off. |

| | Symptom | Possible cause | Remedy |
|------|--------------------------|--|--|
| Tool | Does not operate. | The lock lever was not pressed when the lever was pulled back. | To prevent accidents from incorrect operation, the lock lever must be pressed while the lever is pulled back to start the motor. Hold the handle from above and press the lock lever while pulling the handle. |
| | | The tool pulls in large volumes of grass that are caught between the cover and the nylon head, the tool is overloaded. | This is the effect of a function that protects the rechargeable battery by turning off the motor when the tool is exposed to an excessive load. Turn off the tool and remove the cause of the overload. Press the power button once again to continue operation. |
| | Goes on, but soon stops. | The rechargeable battery power is low. | Charge the rechargeable battery. |
| | | The rechargeable battery is overheated. | Stop using the rechargeable battery, remove it from the tool and let it cool in a well-ventilated location not exposed to sunlight. |
| | Strong vibrations | The loop handle is not properly attached to the main pipe. | Secure properly. |
| | | The cover is not been properly attached to the main pipe. | Secure properly. |

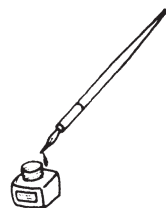
SERVICE PARTS LIST



English

| Item No. | Part Name | Q'TY |
|----------|----------------------------------|------|
| 1 | TAPPING SCREW (W/FLANGE) D4×20 | 15 |
| 2 | HEX.SOCKET BOLT M5×16 | 1 |
| 3 | NAME PLATE | 1 |
| 4 | HOUSING(A), (B)SET | 1 |
| 5 | TAPPING SCREW (W/FLANGE) D3.5 | 4 |
| 6 | CONTROLLER ASS'Y | 1 |
| 7 | PANEL SHEET | 1 |
| 8 | HOUSING PLATE | 1 |
| 9 | SWITCH PCB ASS'Y | 1 |
| 10 | BATTERY TERMINAL | 1 |
| 11 | PACKING | 1 |
| 12 | SWITCH | 1 |
| 13 | MACHINE SCREW (W/WASHERS) M3.5×5 | 2 |
| 14 | WIRE | 1 |
| 15 | PLATE | 1 |
| 16 | BAND | 1 |
| 17 | BATTERY (BSL1830) | 1 |
| 18 | BRAND LABEL | 1 |
| 20 | TAPPING SCREW D4×20 | 1 |
| 21 | LEVER | 1 |
| 22 | SPRING | 1 |
| 23 | LOCK LEVER | 1 |
| 24 | LABEL(D) | 1 |
| 25 | HANDLE (A) (B) SET | 1 |
| 26 | HEX.HOLE BOLT M5×30/WS | 1 |
| 27 | DISC MOTOR ASS'Y | 1 |
| 28 | BRUSH CAP | 2 |
| 29 | CARBON BRUSH | 2 |
| 30 | MACHINE SCREW M4X16 | 5 |

| Item No. | Part Name | Q'TY |
|----------|---------------------------------------|------|
| 31 | FLANGE ASS'Y | 1 |
| 32 | NYLON HEAD | 1 |
| 33 | COVER | 1 |
| 34 | SHAFT | 1 |
| 35 | NYLON CORD | 1 |
| 36 | SET SCREW | 1 |
| 37 | REEL | 1 |
| 38 | RETURN SPRING | 1 |
| 39 | BUTTON | 1 |
| 40 | CORD GUIDE | 1 |
| 41 | CASE | 1 |
| 42 | COVER | 1 |
| 43 | KNIFE | 1 |
| 44 | HEX. HD. TAPPING SCREW D5×20 | 1 |
| 45 | BLADE COVER HOLDER | 1 |
| 46 | HEX.HOLE BOLT M5×12/S | 1 |
| 47 | COVER BRACKET | 1 |
| 48 | HEX. SOCKET HD. BOLT (W/BUTTON) M6×25 | 2 |
| 49 | SPRING WASHER M6 | 2 |
| 50 | CAUTION LABEL (B) | 1 |
| 51 | LEVEL MARK (B) | 1 |
| 52 | NUT M6 | 2 |
| 53 | LOOP HANDLE ASS'Y | 1 |
| 54 | MAIN PIPE | 1 |
| 55 | HANDLE HOLDER (A) | 1 |
| 56 | BOLT M6 | 2 |
| 501 | HEX. BAR WRENCH | 1 |
| 502 | BOX WRENCH | 1 |
| 503 | PROTECTIVE GLASSES | 1 |
| 504 | CHARGER (UC18YGSL) | 1 |
| 505 | BATTERY COVER | 1 |



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