

HiKOKI

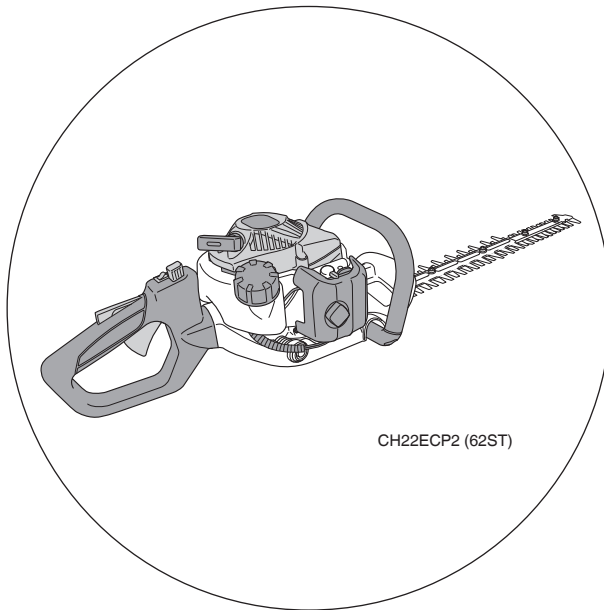
绿篱机

Hedge Trimmer

**CH 22EAP2 (50ST)/CH 22EA2 (50ST)/CH 22EBP2 (62ST)
CH 22EB2 (62ST)/CH 22ECP2 (62ST)/CH 22EC2 (62ST)
CH 22ECP2 (78ST)/CH 22EC2 (78ST)**

使用说明书

Handling instructions

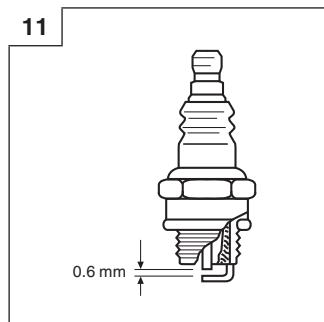
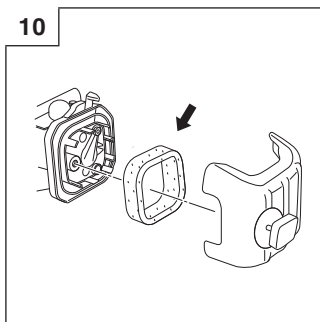
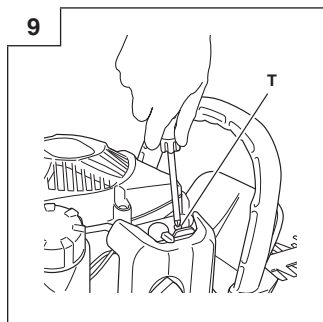
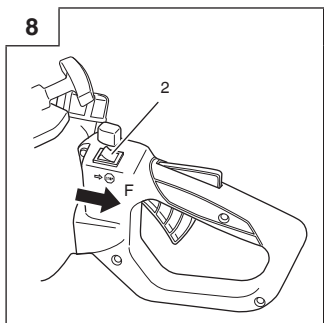
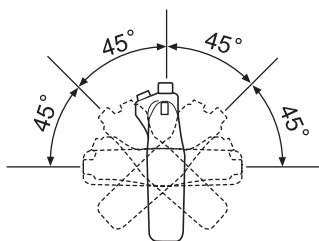
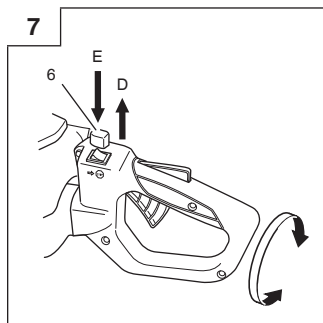
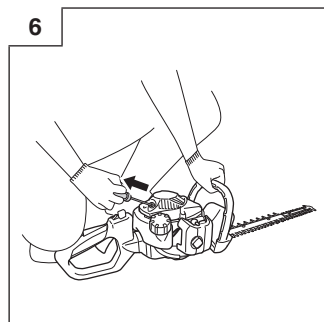
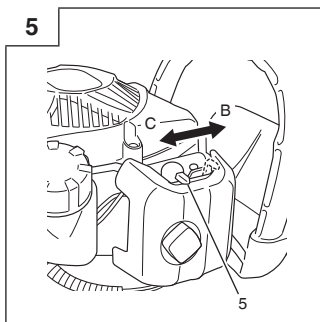
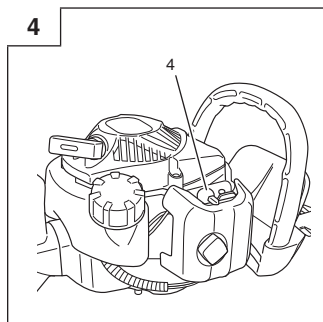
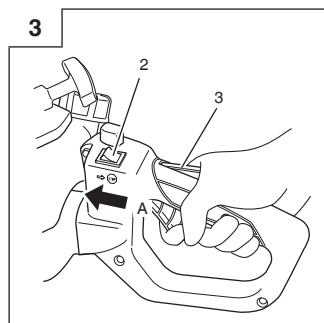
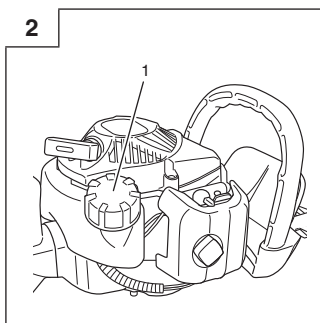
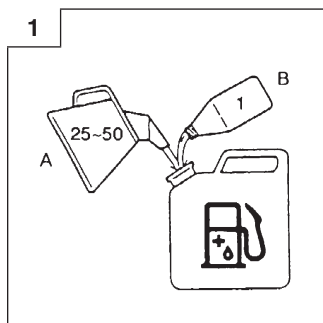


CH22ECP2 (62ST)

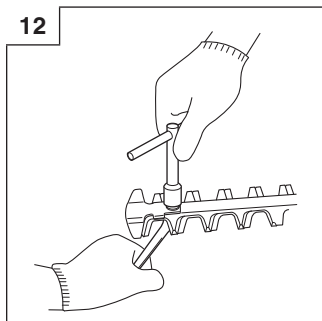


使用前务请详加阅读

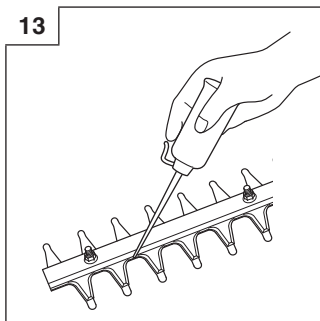
Read through carefully and understand these instructions before use.



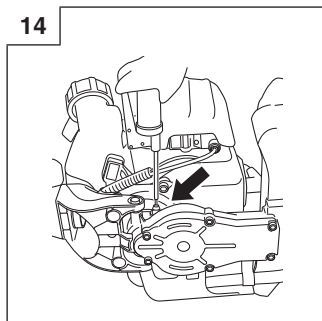
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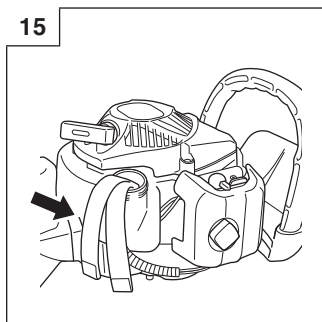
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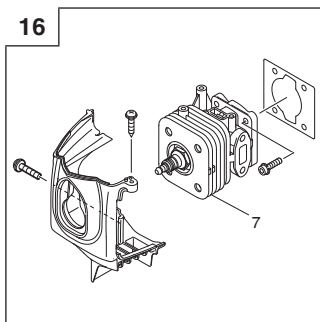
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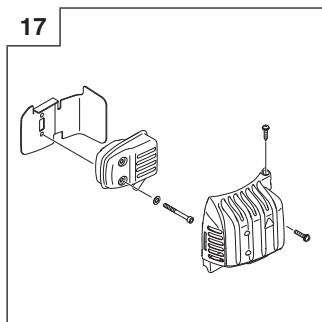
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标志的含义

注：某些装置未附带此类标志。

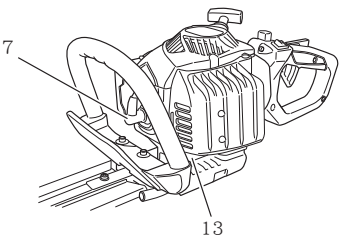
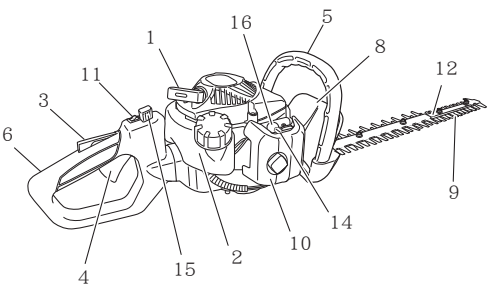
	标志 ⚠ 警告 以下显示的是本机器中使用的标志。使用前请一定确保已充分了解各标志的含义。		急停
	请仔细阅读、理解并遵守本手册以及本装置中的警告及指示。		燃油混合物
	使用本装置时请务必配戴眼、头及耳防护设备。		高温表面
	阻气门 — 运行位置（打开）		有保证的声音功率级
	阻气门 — 阻气位置（关闭）		使用前须知 <ul style="list-style-type: none">• 仔细阅读本手册。• 检查修剪设备是否已正确组装且已调整好。• 启动本装置并检查化油器是否已调整好。请参见“保养”。
	开启/启动		
	关闭/停止		

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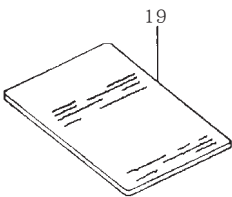
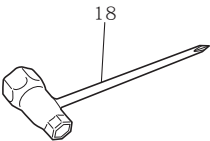
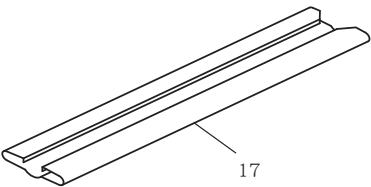
零件名称

本手册中包含很多型号的产品信息，其中的插图可能与您购买的装置有所不同。请使用适合您装置的指示说明。

- 1.手拉启动器
- 2.燃料箱
- 3.节流阀杆锁
- 4.节流阀杆
- 5.前部手柄
- 6.后部手柄
- 7.火花塞
- 8.护手罩
- 9.修剪刀片
- 10.空气滤清器
- 11.点火开关
- 12.修剪器导轨
- 13.齿轮箱
- 14.阻气门操作杆
- 15.锁定杆
- 16.启动注给器
- 17.刀片箱
- 18.组合箱扳手
- 19.使用说明书



CH22EAP2 (50ST), CH22EA2 (50ST), CH22EBP2 (62ST), CH22EB2 (62ST), CH22ECP2 (62ST), CH22EC2 (62ST), CH22ECP2 (78ST), CH22EC2 (78ST)



警告及安全指示

妥善保管，以备日后参考。

此绿篱机可能造成严重伤害。为了正确操纵、准备、维护、启动和停止绿篱机，请仔细阅读使用说明。务必熟悉绿篱机的所有控制和正确用法。

操作者安全

- 请务必配戴安全面罩或护目镜。
- 请务必穿着厚重长裤、皮靴并配戴手套。请勿穿着宽松衣物、配戴珠宝、短裤、拖鞋或光脚进行操作。扎紧头发并使其高于肩部。
- 在您疲惫、生病、饮酒后、服用药物或正接受医疗诊治过程中请勿操作此工具。
- 切勿让儿童或无操作经验的人员操作此机器。
- 留意架空电力线路。
- 配戴听力保护装置。
- 切勿在封闭的房间或建筑物中开启或运转发动机。吸入废气可能会导致死亡。
- 保持手柄清洁，无机油及燃料附着。
- 手部应远离修剪设备。
- 请勿抓住或握住本装置的修剪设备。
- 当关闭装置时，请确保修剪配件在装置关闭前停止转动。
- 长时间操作后，请进行适时的休息以防止由于振动而可能产生的手臂振动综合症（HAVS）。
- 如果切割机构遇到任何异物或者绿篱机启动时发出任何异常声响或震动，应立即关闭电源，让绿篱机停止。从火花塞上拔掉火花塞导线，并执行下列操作：
 - 检查是否有损坏；
 - 检查是否有松动部件，若有，拧紧松动部件；
 - 修理或用同等规格的部件更换损坏的部件。

⚠警告

- 防振系统无法保证您不患手臂振动综合症或腕管综合症。因此，长期连续及定期使用者应该密切关注其手臂及手指的健康情况。如果出现以上任何症状，请立即找医生咨询。
- 如果您正使用例如起搏器等电气 / 电子设备，在进行任何动力设备的操作前请向医生及产品制造商咨询。
- 如果刀片卡住异物，应关闭电机，等待绿篱机冷却后，使用钳子等工具小心地取出异物。取出异物时请小心谨慎，刀片可能因冲力而移动。

装置 / 机器安全

- 每次使用前请检查整个装置 / 机器。更换破损的部件。检查是否有燃料泄漏并确保所有固定件都牢固固定到位。
- 请务必在使用本装置 / 机器前更换有裂纹、有缺损或已损坏的部件。

- 调整化油器时请让其他人员远离。
- 本装置 / 机器只能使用制造商推荐的配件。

⚠警告

切勿以任何方式改装本装置 / 机器。请勿使用本装置 / 机器进行其设计之外的操作。

燃料安全

- 请在室外且无火花或火焰处混合及倾注燃料。
- 请使用允许的容器存放燃料。
- 切勿在电源开启的情况下取下燃油盖或加油。在加油之前，让电机和排放组件冷却下来。
- 在燃料、装置 / 机器附近或正在使用装置 / 机器时请勿吸烟或允许他人吸烟。
- 切勿在室内加油。
- 启动发动机前请擦去所有喷溅出的燃料。
- 启动发动机前，请将其移动到距离添加燃料地点至少3米的距离。
- 取下燃料盖前请让发动机停止运转。
- 将本装置 / 机器存放起来前请清空燃料箱。建议每次使用后都要清空燃料。如果箱内有燃料残留，存放时一定要保证燃料不要泄漏。
- 将装置 / 机器及燃料存放在燃料蒸汽无法接触到热水器、电动机或开关、火炉等有火花或明火的地方。

⚠警告

燃料极易点燃、爆炸或吸入烟尘，所以在处理或添加燃料时一定要特别注意。

修剪安全

- 请勿修剪植物绿篱以外的其他物体。
- 每次使用前，请检查需要进行修剪的区域。清除可能被抛出或引起缠绕的物体。
- 为保护您的呼吸系统，在修剪喷洒了杀虫剂的青草时请配戴喷雾防护面罩。
- 使儿童、动物、旁观者及协助者等其他人员远离危险区域 15 米。如果有人靠近，请立即关闭发动机。
- 要用双手握紧装置 / 机器。
- 保持步伐稳固及平衡。请勿过度伸展。
- 发动机运转时，保持身体任何部位远离消音器及修剪配件。
- 始终保持修剪工具位于肩部以下。切勿站在梯子、树上或其他不稳定的支撑物体上操作本装置。
- 当更换工作地点时，请确保关闭机器且所有修剪配件停止运转。
- 当机器正在运转时，切勿将其置于地面上。
- 操作任何动力设备时，请务必携带急救箱。
- 切勿在封闭的房间、建筑物内和 / 或可燃性液体附近开启或运转发动机。吸入废气可能会导致死亡。

保养安全

- 请依照推荐的步骤保养本装置 / 机器。
- 除进行化油器调整外，在进行保养前请断开火花塞的连接。
- 调整化油器时请让其他人员远离。
- 请仅使用制造商推荐的正品HiKOKI替换部件。
- 当绿篱机停止后进行维修、检查或存放时，应关闭电源，从火花塞上拔掉火花塞导线，并确保所有移动部件都处于停止状态。在进行任何检查、调整等之前，让绿篱机冷却下来。

运输及存放

- 请用手搬运本装置 / 机器，并确保发动机已停止运转且消音器远离您的身体。
- 在存放本装置 / 机器或将其装入车内运输前，请待发动机冷却后清空燃料箱并进行固定。
- 将本装置 / 机器存放起来前请清空燃料箱。建议每次使用后都要清空燃料。如果箱内有燃料残留，存放时一定保证燃料不要泄漏。
- 请将装置 / 机器存放于儿童无法触及的地方。
- 请仔细清洁保养本装置并将其存放在干燥的地方。
- 运输或存放时请确保发动机开关已关闭。
- 在装入车内运输或存放时，请用刀片外罩盖住刀片。

如发生本手册中未提及的情况，请小心并用常规处理方法处理。如需帮助，请联系您的HiKOKI经销商。
请特别注意以下警示语言：

⚠警告

表示如果不遵守本指示可能会导致严重的人身伤害或死亡。

注意

表示如果不遵守本指示可能会导致人身伤害或设备损毁。

注

关于正确运行及使用方法的有用信息。

注意

请勿拆解手拉启动器。否则可能由于弹簧的反作用力而导致人身伤害。

规格

型号	CH22EAP2 (50ST) CH22EA2 (50ST)	CH22EBP2 (62ST) CH22EB2 (62ST)	CH22ECP2 (62ST) CH22EC2 (62ST)	CH22ECP2 (78ST) CH22EC2 (78ST)
发动机尺寸 (毫升)	21.1			
火花塞	NGK BMR 7A			
燃料箱容积 (升)	0.30			
净重 (公斤)	4.3	4.4	5.0	5.2
总修剪长度 (毫米)	500	620	620	780
刀片类型	双面			
声压级 LpA (dB (A)) 依据ISO 10517 等效*1 不确定	97 3			
声功率级 LwA (dB (A)) 依据ISO 10517 测量*1 不确定	102 2			
声功率级 LwA (dB (A)) 依据2000/14/EC 测量*2 保证	102 104			
振动级 (m/s ²)(ISO 10517) 前部手柄 后部手柄	7.0 7.5	9.1 9.1	2.8 3.4	2.8 2.8

注
噪音级别 / 振动级别根据不同工作条件下的以下时间分布的时间加权总能量计算得出：
*1: 1/5 怠速、4/5 空转速度。
*2: 仅有空转速度。
所有数据如有更改，恕不另行通知。

操作程序

燃料 (图 1)

警告
本绿篱机配备有一个二冲程发动机。请使用混入机油的燃料运行发动机。
在填充燃料或处理燃料时请保持良好的通风。

燃料
○ 请一定使用正规牌子的辛烷值为 89 的无铅汽油。

- 请使用正品二冲程机油或以 25:1 至 50:1 比例混合的机油，使用前请参阅机油瓶上的比例说明或咨询HiKOKI经销商。
- 如果无法获得正品机油，可使用标签上标明含有抗氧化剂的应用于气冷式二冲程发动机的高品质机油 (JASO FC GRADE OIL 或 ISO EGC GRADE)。请勿使用 BIA 或 TCW (二冲程水冷型) 混合机油。
- 切勿使用多级机油 (10 W/30) 或废弃机油。
- 一定要在单独的清洁容器中混合燃料和机油。

首先添加需要使用的燃料量的一半。然后加入全部需使用的机油。混合 (摇匀) 燃料混合物。再将剩余的一半燃料加入。
在注入燃料箱前请彻底混合 (摇匀) 燃料混合物。

添加燃料

⚠警告 (图 2)

- 添加燃料前请一定关闭发动机。
- 添加燃料时，慢慢打开燃料箱 (1) 以防止出现过压现象。
- 添加完成后拧紧燃料盖。
- 启动机器前，一定要将本装置移到距离添加燃料地点至少 3 米以外的地方。

在添加燃料前请仔细清洁燃料箱盖区域，以确保无尘土落入燃料箱内。在添加燃料前请摇晃容器以确保燃料混合均匀。

启动

注意

启动前请确保修剪配件未碰触任何物体。

1. 将点火开关 (2) 设置为 ON (开) 位置 (A)。(图 3)
* 推动启动注给器 (4) 约10次，使燃料流入化油器。(图 4)
2. 将阻气门操作杆 (5) 设置在 CLOSED (关闭) 位置 (B)。(图 5)
3. 迅速拉动手拉启动器，请小心握紧手柄使其无法弹回。(图 6)
4. 当听到发动机快要启动时，将阻气门操作杆返回到 RUN (运行) 位置 (开) (C)。然后再次迅速拉动手拉启动器。

注

如果发动机没有启动，请重复步骤2至4。

5. 发动机启动后，在承受任何负载前需要有2至3分钟的时间进行预热。

修剪

进行修剪时，使发动机以最高速度运转，这样才可以保持合适的修剪器速度。修剪绿篱的顶部时，以使刀片与水平位置成 15 至 30 度的角度握持绿篱机，并以朝向绿篱边缘的弧度摆动绿篱机进行修剪。在修剪绿篱侧面时，请保持刀片垂直并以一个弧度摆动本装置。

注

○ 多位扭转手柄 (图 7)

在处理各种切割角时，后部控制手柄可转动 90 度以便于操作。此手柄有五个不同的锁定位置。在调整后部手柄之前，确保机器处于空闲状态或者引擎处于关机状态。

- 如果没有固定手柄 (按下锁定杆)，则不能联结油门杆。

如要旋转手柄，请推动锁定杆 (6) 让手柄转动。将手柄转动至所需的 0°、45° 或 90° 锁定位置，然后释放锁定杆 (6) 将手柄锁定到位。

D: 锁定

E: 解锁

停止 (图 8)

降低发动机转速，然后将点火开关推到停止位置 (F)。

注

如果发送机不停止，可通过将阻气门操作杆转到阻气位置强行让发动机停止。

在重新启动发动机前，请让HiKOKI维修服务中心进行修理。

保养

可由任何非公路用发动机维修机构或个人进行保养、更换或维修排气控制装置及系统。

化油器调整 (图 9)

⚠警告

- 化油器调整过程中修剪配件可能会旋转。
- 离合器盖未完成组装前切勿启动发动机。否则离合器可能松动，从而导致人身伤害。

燃料与空气在化油器中混合。在做发动机的出厂调试时，化油器已调整完成。根据您工作地点的气候或海拔高度，可能需要进一步的调整。化油器有一个调整可能性：

T =怠速调整螺丝。

怠速调整 (T)

检查空气过滤器是否清洁。如果怠速正确，则修剪配件不应旋转。如果需要进行调整，请在发动机运转时将T型螺丝关闭 (顺时针)，直至修剪配件开始转动。打开 (逆时针) T 型螺丝直至修剪配件停止转动。当发动机在低于修剪配件开始转动的的所有位置都能平稳运转时，发动机即达到了正确怠速。

如果怠速调整完成后修剪配件仍然转动，请联系HiKOKI经销商。

空气过滤器 (图 10)

空气过滤器必须保持清洁无尘土，以防止发生以下情况：

- 化油器故障。
- 启动故障。
- 发动机动力降低。

○ 发动机部件不必要的磨损。

○ 燃料消耗异常。

应每天清洁空气过滤器，尤其在尘土多处工作时更应时常清洁。

清洁空气过滤器

取下空气过滤器盖及滤芯。用温的肥皂水清洗。重新安装前，请检查滤芯是否已干。经过一段时间使用后，空气过滤器可能无法完全清洁干净。因此，需要定期进行更换。损毁的滤芯必须随时更换。

注

将滤芯放在二冲程机油或同类产品中浸泡。挤压滤芯使机油完全挤出并除去多余的机油。

火花塞（图 11）

火花塞的状况受以下条件影响：

○ 不正确的化油器设置。

○ 错误的燃料混合物（汽油中含有过多机油）。

○ 空气过滤器脏污。

○ 艰难的运转条件（如天气寒冷）。

造成火花塞电极上聚集污物的几个条件可能会导致故障和启动困难。如果发动机的动力低、无法启动或怠速下运转不良，请首先检查火花塞。如果火花塞脏污，请对其进行清洁并检查电极间距。如果需要，可重新调整。正确的间距为 0.6 毫米。火花塞在工作了 100 小时后应进行更换，或者当电极严重磨损时应提早更换。

注

在某些地区，当地法律要求使用附有电阻器的火花塞来阻止产生点火信号。如果本机器原本配备附有电阻器的火花塞，那么请使用相同类型的火花塞进行更换。

修剪器刀片（图12）

刀片通过四或五颗螺栓安装在修剪器导轨上。这些螺栓在紧固时要留有空隙，以便修剪器可以平稳移动。

如果空隙太小

修剪器无法正确移动且滑动表面可能被卡住。

如果空隙太大

修剪器就可能不够锋利。

调整修剪器空隙

1. 拧松修剪器固定螺母。

2. 先完全拧紧修剪器固定螺栓，然后将其拧松约 5/8 圈。

3. 在螺栓处于此位置时，将修剪器固定螺母拧紧。

在修剪器导轨固定螺栓松动、磨损或损坏时一定要进行更换。同时一定要更换损坏的修剪器刀片。

为刀片添加润滑油（图13）

在修剪过程中，粘着在刀片边缘的树液会增加负载。使用机油（自行车油或类似）润滑刀片，用布擦拭刀片。为防刀片锈蚀，使用之后以及长期存放时，务必给刀片涂上润滑油，然后再将其放入刀片箱。

齿轮箱（图 14）

将高品质的锂基润滑油注入油脂添加孔，直至有小部分润滑油从修剪器刀片和齿轮箱中间流出。使用市售弹壳注油枪从齿轮箱旁边的油嘴（由箭头标示）加注润滑油。

注

每隔20小时应加3克油，如果工作繁重时应该更频繁的润滑。

燃料过滤器（图 15）

从燃料箱取下燃料过滤器并在溶剂中彻底清洗。清洗结束后，将过滤器完全推入燃料箱内。

注

如果过滤器上聚集了过多灰尘而变硬，请进行更换。

清洁气缸散热片（图 16）

如果有树叶夹在气缸散热片（7）中间，发动机可能会过热而导致输出功率过低。为避免发生此种情况，请一定要保持气缸散热片及风扇箱清洁。

每操作 100 小时后或每年一次（如果条件需要，可以更频繁），清洁散热片及发动机外表面上的灰尘、尘土及机油沉积，这些沉积可能造成散热不良。

清洁消音器（图 17）

每操作 100 小时后，取下消音器及火花避雷器（如配备），清洁排气口或消音器进气口上过多的碳沉积。

长期存放注意事项

将燃料箱内的燃料排干净。启动发动机并让其运转直至停止。对于使用中造成的损坏进行维修。用一块干布或高压风管清洁本装置。将几滴二冲程发动机机油通过火花塞孔注入气缸内，然后让发动机运转数次将机油排出。盖住本装置并存放在干燥的地方。

保养安排

以下向您提供一些基本的保养说明。如需了解更多信息，请联系您的HiKOKI经销商。

日常保养

- 清洁本绿篱机的外表面。
- 检查刀片防护罩是否损坏或有裂纹。如果防护罩有碰撞或裂纹，请进行更换。
- 检查刀片是否锋利且无裂纹。
- 检查刀片的螺母是否完全拧紧。
- 确保刀片传送罩无损坏且装配牢固。
- 检查螺母及螺丝是否已完全拧紧。

每周保养

- 检查启动器，特别是线束及回弹弹簧。
- 清洁火花塞的外表面。
- 取下火花塞，检查电极间距。将其调整为 0.6 毫米，或更换火花塞。
- 清洁气缸的散热片，检查启动器处的空气吸入是否被阻塞。
- 检查齿轮盖是否充满润滑油。
- 清洁空气过滤器

每月保养

- 用汽油清洗燃料箱。
- 清洁化油器的外表面及其周围。
- 清洁风扇及风扇周围。













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
工具	不工作。	刀片中被异物卡住。	如果刀片中有异物，请使用钳子或类似工具将其取出。 应特别小心，因为异物被取出后工具可能会开始工作。 树液或铁锈也可能造成刀片无法工作。使用钢丝刷或类似工具去除树液或铁锈。
	工具修剪效果不好。	由于待修剪枝叉的宽度超过刀片的修剪范围，刀片停止工作。 注： 反复造成刀片停止的作业最终将会损坏工具。	有些园林树木即使其宽度处于正常修剪范围内，但由于非常坚硬，也可能超出工具的修剪能力。使用修枝剪剪去粗枝叉后再开始作业。
			由于修剪长度过长，即使采用倾斜修剪也无法正常使用工具。务必以正确角度修剪粗枝叉。

MEANINGS OF SYMBOLS

NOTE: Some units do not carry them.

<div><div></div><div>Symbols</div></div> <div><div> WARNING</div><div>The following show symbols used for the machine. Be sure that you understand their meaning before use.</div></div>		
	It is important that you read, fully understand and observe the following safety precautions and warnings. Careless or improper use of the unit may cause serious or fatal injury.	<div>Emergency stop</div>
	Read, understand and follow all warnings and instructions in this manual and on the unit.	<div>Fuel and oil mixture</div>
	Always wear eye, head and ear protectors when using this unit.	<div>Hot surface</div>
	Choke - Run position (Open)	<div><div>Guaranteed sound power level</div><div>Before using your machine<ul style="list-style-type: none">• Read the manual carefully.• Check that the cutting equipment is correctly assembled and adjusted.• Start the unit and check the carburetor adjustment. See "MAINTENANCE".</div></div>
	Choke - Choked position (Closed)	
	On/Start	
	Off/Stop	

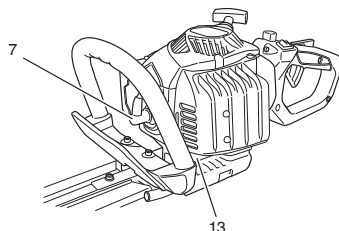
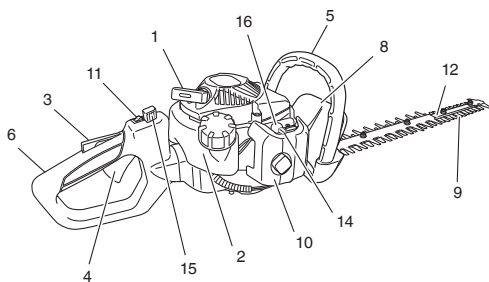
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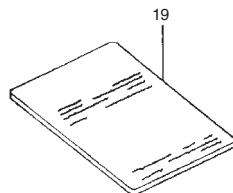
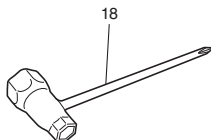
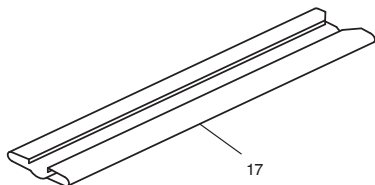
WHAT IS WHAT?

Since this manual covers several models, there may be some difference between these illustrations and your unit. Use the instructions that apply to your unit.

1. Recoil starter
2. Fuel tank
3. Throttle lever lockout
4. Throttle lever
5. Front handle
6. Rear handle
7. Spark plug
8. Hand guard
9. Cutting blade
10. Air cleaner
11. Stop switch
12. Blade guide
13. Gear case
14. Choke lever
15. Lock lever
16. Priming bulb
17. Blade case
18. Combi box spanner
19. Handling instructions



CH 22EAP2 (50ST), CH 22EA2 (50ST)
 CH 22EBP2 (62ST), CH 22EB2 (62ST)
 CH 22ECP2 (62ST), CH 22EC2 (62ST)
 CH 22ECP2 (78ST), CH 22EC2 (78ST)



WARNINGS AND SAFETY INSTRUCTIONS

Keep for future reference.

THIS HEDGE TRIMMER CAN CAUSE SERIOUS INJURIES. Read the instructions carefully for the correct handling, preparation, maintenance, starting and stopping of the hedge trimmer. Become familiar with all controls and the proper use of the hedge trimmer.

Operator safety

- Always wear a safety face shield or goggles.
- Always wear heavy, long pants, boots and gloves. Do not wear loose clothing, jewelry, short pants, sandals or go barefoot. Secure hair so it is above shoulder length.
- Do not operate this tool when you are tired, ill or under the influence of alcohol, drugs or medication.
- Never let a child or inexperienced person operate the machine.
- Beware of overhead power lines.
- Wear hearing protection.
- Never start or run the engine inside a closed room or building. Breathing exhaust fumes can kill.
- Keep handles free of oil and fuel.
- Keep hands away from cutting equipment.
- Do not grab or hold the unit by the cutting equipment.
- When the unit is turned off, make sure the cutting attachment has stopped before the unit is set down.
- When operation is prolonged, take a break from time to time so that you may avoid possible Hand-Arm Vibration Syndrome (HAVS) which is caused by vibration.
- If the cutting mechanism strikes any foreign object or the hedge trimmer starts making any unusual noise or vibration, shut off the power source and allow the hedge trimmer to stop. Disconnect the spark plug wire from the spark plug and take the following steps:
 - Inspect for damage;
 - Check for, and tighten, any loose parts;
 - Have any damaged parts replaced or repaired with parts having equivalent specifications.

⚠ WARNING

- Antivibration systems do not guarantee that you will not sustain Hand-Arm Vibration Syndrome or carpal tunnel syndrome. Therefore, continual and regular users should monitor closely the condition of their hands and fingers. If any symptoms of the above appear, seek medical advice immediately.
- If you are using any medical electric/electronic devices such as a pacemaker, consult your physician as well as the device manufacturer prior to operating any power equipment.
- When a foreign object is caught in the blade, turn off the engine, and remove the foreign object carefully using a plier etc., after the hedge trimmer has been cooled down. Be careful when removing the foreign object, since the blade may move because of the backlash.

Unit/machine safety

- Inspect the entire unit/machine before each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely tightened.
- Replace parts that are cracked, chipped or damaged in any way before using the unit/machine.
- Keep others away when making carburetor adjustments.
- Use only accessories as recommended for this unit/machine by the manufacturer.

⚠ WARNING

Never modify the unit/machine in any way. Do not use your unit/machine for any job except that for which it is intended.

Fuel safety

- Mix and pour fuel outdoors and where there are no sparks or flames.
- Use a container approved for fuel.
- Never remove the fuel cap or add fuel with the power source running. Allow engine and exhaust components to cool down before refueling.
- Do not smoke or allow smoking near fuel or the unit/machine or while using the unit/machine.
- Never refuel indoors.
- Wipe up all fuel spills before starting engine.

- Move at least 3 m away from fueling site before starting engine.
- Stop engine before removing fuel cap.
- Empty the fuel tank before storing the unit/machine. It is recommended that the fuel be emptied after each use. If fuel is left in the tank, store so fuel will not leak.
- Store unit/machine and fuel in area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

⚠ WARNING

Fuel is easy to ignite or get explosion or inhale fumes, so that pay special attention when handling or filling fuel.

Cutting safety

- Do not cut any material other than plant hedge.
- Inspect the area to be cut before each use. Remove objects which can be thrown or become entangled.
- For respiratory protection, wear an aerosol protection mask when cutting the grass after insecticide is scattered.
- Keep others including children, animals, bystanders and helpers outside the 15 m hazard zone. Stop the engine immediately if you are approached.
- Hold the unit/machine firmly with both hands.
- Keep firm footing and balance. Do not over-reach.
- Keep all parts of your body away from the muffler and cutting attachment when the engine is running.
- Keep cutting tool below shoulder level. NEVER operate unit from a ladder, while in a tree or from any unstable support.
- When relocating to a new work area, be sure to shut off the machine and ensure that all cutting attachments are stopped.
- Never place the machine on the ground when running.
- Always carry a first-aid kit when operating any power equipment.
- Never start or run the engine inside a closed room or building and/or near the inflammable liquid. Breathing exhaust fumes can kill.

Maintenance safety

- Maintain the unit/machine according to recommended procedures.
- Disconnect the spark plug before performing maintenance except for carburetor adjustments.
- Keep others away when making carburetor adjustments.
- Use only genuine HiKOKI replacement parts as recommended by the manufacturer.
- When the hedge trimmer is stopped for servicing, inspection or storage, shut off the power source, disconnect the spark plug wire from the spark plug and make sure all moving parts have come to a stop. Allow the hedge trimmer to cool before making any inspection, adjustments, etc.

Transport and storage

- Carry the unit/machine by hand with the engine stopped and the muffler away from your body.
- Allow the engine to cool, empty the fuel tank, and secure the unit/machine before storing or transporting in a vehicle.
- Empty the fuel tank before storing the unit/machine. It is recommended that the fuel be emptied after each use. If fuel is left in the tank, store so fuel will not leak.
- Store unit/machine out of the reach of children.
- Clean and maintenance the unit carefully and store it in a dry place.
- Make sure engine switch is off when transporting or storing.
- When transporting in a vehicle or storage, cover blade with blade cover.

If situations occur which are not covered in this manual, take care and use common sense. Contact your HiKOKI dealer if you need assistance. Pay special attention to statements preceded by the following words:

⚠ WARNING

Indicates a strong possibility of severe personal injury or loss of life, if instructions are not followed.

CAUTION

Indicates a possibility of personal injury or equipment damage, if instructions are not followed.

NOTE

Helpful information for correct function and use.

CAUTION

Do not disassemble the recoil starter. you may get a possibility of personal injury with recoil spring.

SPECIFICATIONS

MODEL	CH22EAP2 (50ST) CH22EA2 (50ST)	CH22EBP2 (62ST) CH22EB2 (62ST)	CH22ECP2 (62ST) CH22EC2 (62ST)	CH22ECP2 (78ST) CH22EC2 (78ST)
Engine Size (ml)	21.1			
Spark Plug	NGK BMR 7A			
Fuel Tank Capacity (l)	0.30			
Dry Weight (kg)	4.3	4.7	5.0	5.2
Overall blade length (mm)	500	620	620	780
Blade type	Double-sided			
Sound pressure level LpA (dB (A)) by ISO 10517 Equivalent ^{*1} Uncertainty	97 3			
Sound power level LwA (dB (A)) by ISO 10517 Measured ^{*1} Uncertainty	102 2			
Sound power level LwA (dB (A)) by 2000/14/EC Measured ^{*2} Guaranteed	102 104			
Vibration level (m/s ²) (ISO 10517)				
Front handle	7.0	9.1	2.8	2.8
Rear handle	7.5	9.1	3.4	2.8

NOTE

Noise level/vibration levels are calculated as the time-weighted energy total for noise / vibration levels under various working conditions with the following time distribution:

*1: 1/5 idle, 4/5 racing speed.

*2: Only racing speed.

All data subject to change without notice.

OPERATING PROCEDURES**Fuel (Fig. 1)****⚠ WARNING**

The hedge trimmer is equipped with a two- stroke engine. Always run the engine on fuel, mixed with oil. Provide good ventilation, when fueling or handling fuel.

Fuel

- Always use branded 89 octane unleaded gasoline.
- Use genuine two-cycle oil or use a mix between 25:1 to 50:1, please consult the oil bottle for the ratio or HiKOKI dealer.
- If genuine oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use (JASO FC GRADE OIL or ISO EGC GRADE). Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.
- Never use multi-grade oil (10W/30) or waste oil.
- Always mix fuel and oil in a separate clean container.

Always start by filling half the amount of fuel, which is to be used. Then add the whole amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of fuel.

Mix (shake) the fuel-mix thoroughly before filling the fuel tank.

Fueling**⚠ WARNING (Fig. 2)**

- Always shut off the engine before refueling.
- Slowly open the fuel tank (1), when filling up with fuel, so that possible over-pressure disappears.
- Tighten the fuel cap carefully, after fueling.
- Always move the unit at least 3 m from the fueling area before starting.

Before fueling, clean the tank cap area carefully, to ensure that no dirt falls into the tank. Make sure that the fuel is well mixed by shaking the container, before fueling.

Starting**CAUTION**

Before starting, make sure the cutting attachment does not touch anything.

1. Set stop switch (2) to ON position (A). (**Fig. 3**)
* Push priming bulb (4) about ten times so that fuel flows into carburetor. (**Fig. 4**)
2. Set choke lever (5) to CLOSED position (B). (**Fig. 5**)
3. Pull recoil starter briskly, taking care to keep the handle in your grasp and not allowing it to snap back. (**Fig. 6**)
4. When you hear the engine attempts to start, return choke lever to RUN position (open) (C). Then pull recoil starter briskly again.

NOTE

If engine does not start, repeat procedures from 2 to 4.

5. After starting engine, allow the engine about 2-3 minutes to warm up before subjecting it to any load.

Cutting

When cutting, operate engine at full throttle as this maintains proper blade speed. When trimming top of hedge, hold trimmer so blades are between 15 and 30 degrees from a horizontal position and swing trimmer in an arc toward edge of hedge to sweep cuttings off. When trimming sides of hedge, hold blade vertically and swing unit in an arc.

NOTE

○ Multi-position twist handle (Fig. 7)

The rear control handle turns 90 degrees to provide comfortable use while accommodating a variety of cutting angles. The handle allows for five different locking positions. Before attempting to adjust rear handle, make sure the machine is at idle or engine is shut off.

- The throttle lever cannot be engaged if the handle is not secured (the lock lever is pressed).

To rotate the handle; push the lock lever (6) allowing the handle to turn. Rotate the handle to the desired 0°, 45° or 90° locking position and release the lock lever (6) to lock the handle in place.

D: LOCK

E: UNLOCK

Stopping (Fig. 8)

Decrease engine speed, and push stop switch to stop position (F).

NOTE

If the engine does not stop, it can be forced to stop by rotating the choke lever to the choked position.

Before restarting the engine, ask HiKOKI Authorized Service Centers for repairs.

MAINTENANCE

MAINTENANCE, REPLACEMENT OR REPAIR OF THE EMISSION CONTROL DEVICES AND SYSTEM MAY BE PERFORMED BY ANY NONROAD ENGINE REPAIR ESTABLISHMENT OR INDIVIDUAL.

Carburetor adjustment (Fig. 9)

⚠ WARNING

- The cutting attachment may be spinning during carburetor adjustments.
- Never start the engine without the complete clutch cover. Otherwise the clutch can come loose and cause personal injuries.

In the carburetor, fuel is mixed with air. When the engine is test run at the factory, the carburetor is adjusted. A further adjustment may be required, according to climate and altitude. The carburetor has one adjustment possibility:

T = Idle speed adjustment screw.

Idle speed adjustment (T)

Check that the air filter is clean. When the idle speed is correct, the cutting attachment will not rotate. If adjustment is required, close (clockwise) the T-screw, with the engine running, until the cutting attachment starts to rotate. Open (counter-clockwise) the screw until the cutting attachment stops. You have reached the correct idle speed when the engine runs smoothly in all positions well below the rpm when the cutting attachment starts to rotate.

If the cutting attachment still rotates after idle speed adjustment, contact HiKOKI dealer.

Air filter (Fig. 10)

The air filter must be cleaned from dust and dirt in order to avoid:

- Carburetor malfunctions.
- Starting problems.
- Engine power reduction.
- Unnecessary wear on the engine parts.
- Abnormal fuel consumption.

Clean the air filter daily or more often if working in exceptionally dusty areas.

Cleaning the air filter

Remove the cleaner cover and the filter. Rinse it in warm soap suds. Check that the filter is dry before reassembly. An air filter that has been used for some time cannot be cleaned completely. Therefore, it must regularly be replaced by a new one. A damaged filter must always be replaced.

NOTE

Saturate the element in 2-cycle oil or the equivalent. Squeeze the element to distribute the oil completely and to remove any excess oil.

Spark plug (Fig. 11)

The spark plug condition is influenced by:

- An incorrect carburetor setting.
- Wrong fuel mixture (too much oil in the gasoline).
- A dirty air filter.
- Hard running conditions (such as cold weather).

These factors cause deposits on the spark plug electrodes, which may result in malfunction and starting difficulties. If the engine is low on power, difficult to start or runs poorly at idling speed, always check the spark plug first. If the spark plug is dirty, clean it and check the electrode gap. Readjust if necessary. The correct gap is 0.6 mm. The spark plug should be replaced after about 100 operation hours or earlier if the electrodes are badly eroded.

NOTE

In some areas, local law requires using a resistor spark plug to suppress ignition signals. If this machine was originally equipped with resistor spark plug, use the same type of spark plug for replacement.

Cutter blade (Fig. 12)

The blades are installed to the cutter guide with the four or five bolts. Those bolts are tightened with a clearance so that the cutters can move smoothly.

When clearance is too small

The cutters do not move properly and the sliding surfaces may seize.

When clearance is too large

The cutters are poor in sharpness.

To adjust the cutter clearance

1. Loosen the cutter fixing nuts.
2. Fully tighten the cutter fixing bolts and then loosen them approx. 5/8 turn.
3. With the bolts set at that position, tighten the cutter fixing nuts. Be sure to replace cutter guide fixing bolts when they are loosened, worn or damaged. Also be sure to replace damaged cutter blade.

Lubricating the blade (Fig. 13)

During trimming, sap adhering to the blade edge will increase load. Use machine oil (or bicycle oil or the like) to lubricate the blade and wipe the blade with a cloth. To prevent the blade from rusting, be sure to lubricate the blade after use and when it will not be used for an extended period of time before placing it in the blade case.

Gear case (Fig. 14)

Apply a good quality lithium based grease through the grease fitting until a small amount comes out between the cutting blades and the gear case. Lubricate the grease from the grease nipple (indicated by an arrow) next to the gear case using a commercially available cartridge grease gun.

NOTE

Lubrication should be applied 3g at 20 hour intervals and more frequently with heavy use.

Fuel filter (Fig. 15)

Remove the fuel filter from the fuel tank and thoroughly wash it in solvent. After that, push the filter into the tank completely.

NOTE

If the filter is hard due to dust and dirt, replace it.

Cleaning the cylinder fins (Fig. 16)

When leaves get caught between cylinder fins (7), the engine may overheat, resulting in lower output. To avoid this, always keep cylinder fins and cylinder cover clean.

Every 100 operating hours, or once a year (more often if conditions require), clean fins and external surfaces of engine of dust, dirt and oil deposits which can contribute to improper cooling.

Cleaning the muffler (Fig. 17)

Remove the muffler and spark arrestor (if so equipped), and clean out any excess carbon from the exhaust port or muffler inlet every 100 hours of operation.

For long-term storage

Drain all fuel from the fuel tank. Start and let engine run until it stops. Repair any damage which has resulted from use. Clean the unit with a clean rag, or high pressure air hose. Put a few drops of two-cycle engine oil into the cylinder through the spark plug hole, and spin the engine over several times to distribute oil. Cover the unit and store it in a dry area.

Maintenance schedule

Below you will find some general maintenance instructions. For further information please contact your HiKOKI dealer.

Daily maintenance

- Clean the exterior of the hedge trimmer.
- Check the blade guide for damage or cracks. Change the guard in case of impacts or cracks.
- Check that the blade is sharp, and without cracks.
- Check that the blade nut is sufficiently tightened.
- Make sure that the blade blunt guard is undamaged and that it can be securely fitted.
- Check that nuts and screws are sufficiently tightened.

Weekly maintenance

- Check the starter, especially cord and return spring.
- Clean the exterior of the spark plug.
- Remove it and check the electrode gap. Adjust it to 0.6 mm, or change the spark plug.
- Clean the cooling fins on the cylinder and check that the air intake at the starter is not clogged.
- Check gear case is filled with grease.
- Clean the air filter.

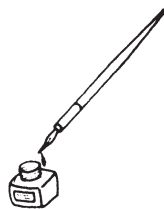
Monthly maintenance

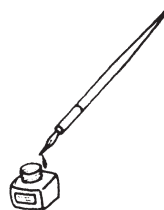
- Rinse the fuel tank with gasoline.
- Clean the exterior of the carburetor and the space around it.
- Clean the fan and the space around it.

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
Tool	Does not operate.	Foreign matter is lodged in the blade.	When there is foreign matter in the blade, use a pair of tongs or similar tool to remove it. Take great care since the tool may start operating when the foreign matter has been removed. Sap or rust may also prevent the blade from operating. Use a wire brush or similar tool to remove sap or rust.
	The tool does not trim well.	The blade stopped because it was used to cut a branch whose width exceeded the blade's cutting capacity. NOTE Work that will repeatedly cause the blade to stop will eventually damage the tool.	Some garden trees have wood that is very hard and may be beyond the capacity of the tool even if it is of a width that is within normal capacity. Use a pair of pruning shear to remove thick branches before starting work. An oblique cut may also exceed the capacity of the tool since the length of the cut increases. Be sure to trim thick branches at right angles.





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