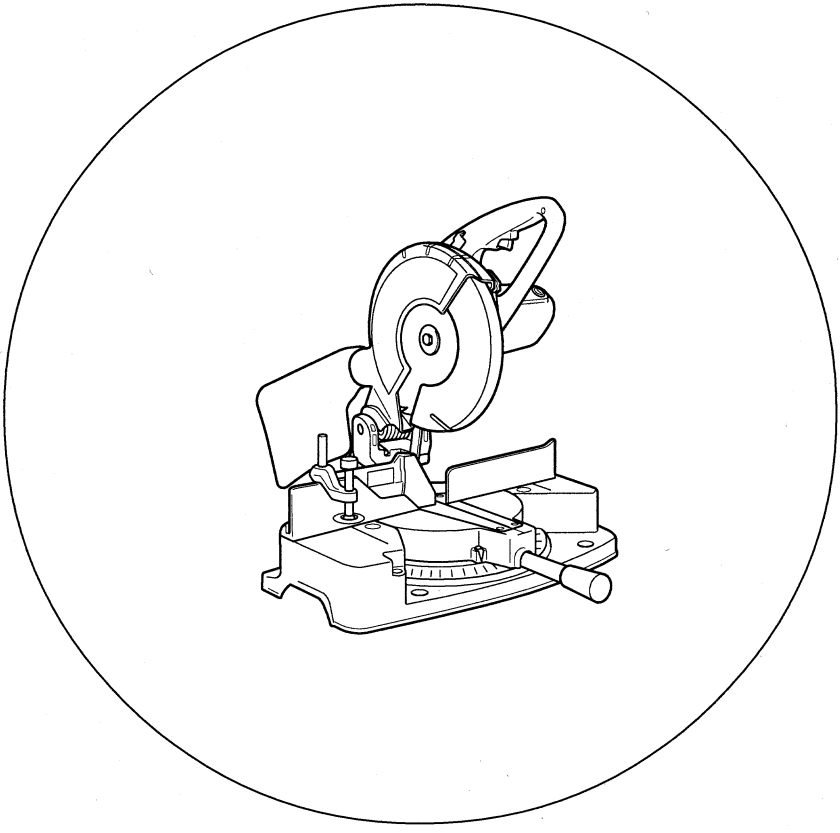
HITACHI

日立牌复合锯
COMPOUND SAW

C 10FCB

使用说明书
Handling instructions



使用前务请详加阅读
Read through carefully and understand these instructions before use

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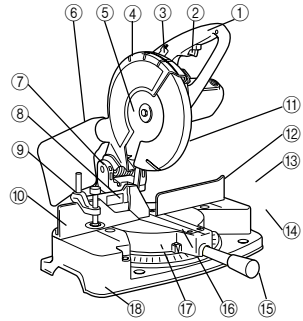

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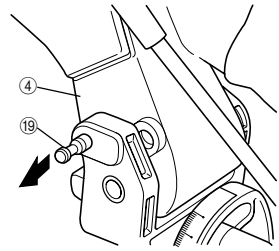

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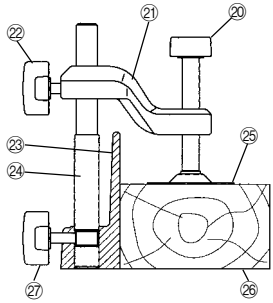

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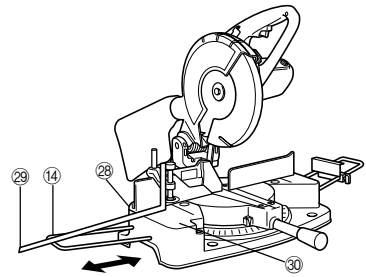

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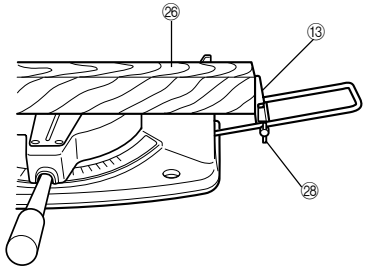

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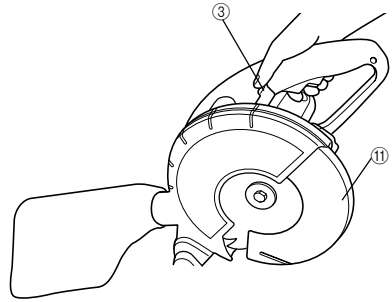

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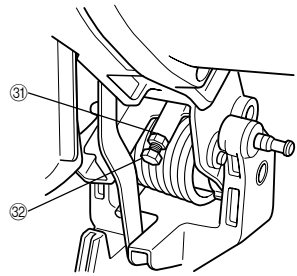

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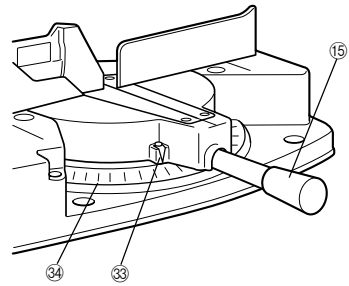

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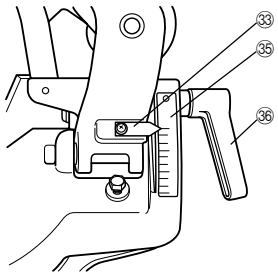

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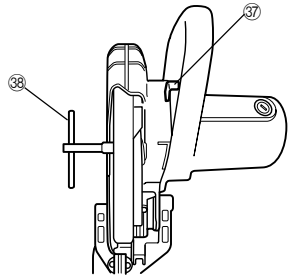

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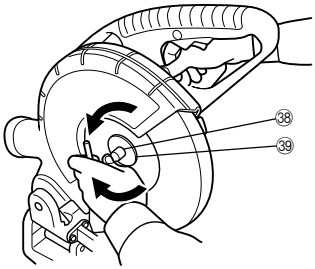

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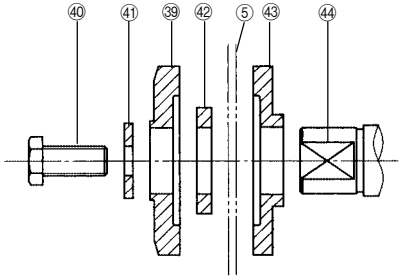

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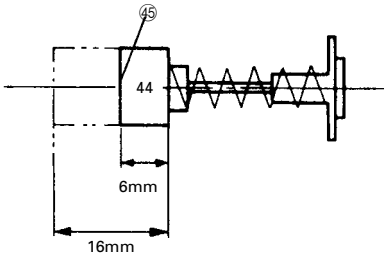

①	手柄	Handle
②	开关	Trigger Switch
③	连杆	Lever
④	齿轮箱	Gear Case
⑤	TCT 锯片	TCT Saw Blade
⑥	防尘袋	Dust Bag
⑦	回转支架	Hinge
⑧	小挡板	Sub Fence
⑨	虎钳组件	Vice Assembly
⑩	挡板（B）	Fence(B)
⑪	安全罩	Safety Cover
⑫	挡板（A）	Fence(A)
⑬	止动片（选购件）	Stopper (Optional accessory)
⑭	支架（选购件）	Holder (Optional accessory)
⑮	侧手柄	Side Handle
⑯	导板	Table Insert
⑰	回转台	Turn Table
⑱	底座	Base
⑲	插销	Locking Pin
⑳	旋钮	Knob
㉑	螺栓支架	Screw Holder
㉒	6 mm 翼栓（B）	6mm Wing Bolt(B)
㉓	挡板	Fence
㉔	虎钳轴	Vise Shaft
㉕	虎钳板	Vise Plate
㉖	工件	Workpiece
㉗	6 mm 翼栓（A）	6mm Wing Bolt(A)
㉘	6 mm 翼栓（选购件）	6mm Wing Bolt (Optional accessory)
㉙	方钢	Steel Squar
㉚	底座面	Base Surface
㉛	8 mm 锁定螺母	8mm Lock Nut
㉜	8mm 深度调节螺栓	8mm Depth Adjustment Bolt
㉝	指针	Indicator
㉞	斜接规	Miter Angle Scale
㉟	斜角尺	Bevel Angle Scale
㊱	夹紧杆	Clamp Lever
㊲	锁杆	Lock Lever
㊳	10 mm 套筒板手	10mm Box Wrench
㊴	垫圈（B）	Washer(B)
㊵	螺栓	Bolt
㊶	垫圈	Washer
㊷	圈（B）	Collar(B)
㊸	垫圈（A）	Washer(A)
㊹	主轴	Spindle
㊺	磨损极限线	Wear Limit Line

作业上的一般注意事项

警告！使用电动工具时，应遵守基本的安全须知（包括以下安全事项），以减少发生火灾、电击和受伤事故。

在使用本产品之前，请仔细通读并妥善保存此说明书。

1. 工作场所应打扫干净，清理妥当，杂乱无章将导致事故。
2. 确保妥适的作业环境。电动工具不可任其风吹雨打。不得在潮湿的地方作业。工作场所需保持充分的亮度。不可在存放易燃液体或气体的地方使用电动工具。因为电动工具在作业时以及进行开关的通／断操作时会发出火花。所以严禁在存放：漆、涂料、轻质汽油、冲淡剂、汽油、煤气、胶粘剂以及其它爆炸性物质的地方使用。
3. 谨防触电事故。应注意避免身体同地面上的例如：管道、散热器、炉灶、冰箱等接触。
4. 勿使他人靠近此电动工具。不要让他人（尤其是小孩）干接触此电动工具或延长电源线的工作，并使他们远离工作区。
5. 不使用的电动工具应存放到干燥而孩童伸手不及的高处，并加锁保管。
6. 不得使劲用力推压。电动工具需按设计条件才能有效而安全地工作，绝不可勉强。
7. 妥选使用工具。不可用小型工具去干重活。不可用于规定外的作业。举例说，用圆锯进行伐木打枝或原木锯切作业。
8. 工作时衣服穿戴要合适。不要让松散的衣角和宝石类卷入转动部分。屋外作业时，最好穿防滑胶鞋。同时要戴上能够罩笼长发的工作帽。
9. 使用安全设备。使用安全镜。如果切断作业会产生灰尘，则使用面罩或防尘口罩。
10. 连接吸尘设备。

    如果装置可连接吸尘设备，则务请连接这些设备并加以正确使用。
11. 不要粗暴使用电线，不得拉扯电线从电源插座拆除插头。电线需从热源和油液隔开，并避免与锐利的边缘接触。
12. 作业以安全第一为原则。工件要用夹具或台钳卡紧。这样做，比用手按压更为可靠。
13. 作业时脚步要站稳，身体姿势要保持平衡。
14. 工具应维护妥善，经常保持锋利、清洁才能充分发挥性能，落实作业安全的要求。应按规定加注润滑脂、更换附件。线缆应定期检查，如发现损伤应即委托专业性的服务单位加以修复。延伸电缆如有损伤应予更换。手柄要保持干燥，并防止沾附油脂类。
15. 不使用时，维修前以及更换附件（如：刀具、钻头、锯具等）之前，都必须拆卸电源插头才行。
16. 开动前务必把调整用键和扳手类拆除下来。这一点与安全有关。应养成习惯，严格遵守。
17. 谨防误开动。插头一插上电源插座，指头就不可随便接触电源开关。插接电源之前，应先确认：开关是否切断。
18. 屋外作业时，必须使用专用的延伸线缆。
19. 保持高度警觉，充分掌握情况，以正常的判断力从事作业。疲惫时切不可开动电动工具。
20. 在继续使用电动工具之前，应详细检查各部零件以及防护装置有无损坏，以便决定能否正常工作，能否发挥正常效能。检查转动部分的对准、结合状态、各零件有无异常，安装是否妥善以及其它足以给工作带来不良影响的情况。

    如防护以及其它零件损伤了，应即委托服务中心或其它适当单位进行修理或更换。开关一发现缺陷，应即委托服务中心加以更换。如开关不能正常地接通或切断，绝不可使用该电动工具。
21. 请勿将本电动工具用于使用说明书中所规定之外的其他用途。
22. 警告

    使用非本使用说明书或日立产品目录中所推荐的任何附件，可能存在人体伤害的危险。
23. 维修仅能由有资格的维修人员进行。制造厂商对因非专业维修人员进行维修及使用不当而造成的损坏和损伤概不负责。
24. 须委托专业维修人员维修本电动工具。本电动工具符合有关安全规则。维修须由专业维修人员使用纯正备件进行。否则可能会导致对操作者产生相当大的危险。
25. 为了保证设计的完整性，电动工具的盖罩和螺钉类不可随便拆除。
26. 除非电线插头已从电源插座拆下，绝不可接触转动部分或附件。
27. 应以低于铭牌上的额定输入功率进行作业。否则电动机将过载而影响工作精度，并降低效率。

28. 不可使用溶剂擦拭塑料零件。因为：汽油、冲淡剂、轻质汽油、四氯化碳、酒精等都会使塑料损伤或发生龟裂，所以应避免使用。擦拭塑料制品，可以使用稍微沾湿了肥皂水的柔布。
29. 只能使用日立指定的更换零件。
30. 本电动工具只在更换炭刷时才可拆解。
31. 本使用说明书中的组装分解图仅用于经授权的维修店。
32. 切勿切割铁金属或砖瓦材料。

使用复合锯须知

1. 请勿在复合锯的安全罩被锁定在打开位置的状态下使用复合锯。
2. 确保安全罩移动顺畅。
3. 安全罩未处于正常位置时请勿使用复合锯。
4. 经常保持锯条锋利。
5. 锯条破损或变形时请勿使用。
6. 请仅使用日立公司所推荐的锯条。
7. 须根据要切割的材料来选择锯条。
8. 请勿在锯条转向前面或转向侧面的状态下使用复合锯。
9. 确保工件上无任何异物（如铁钉等）。
10. 导板磨损时请予更换。
11. 请勿使用锯条切割铝材、木材或类似材料以外的材料。
12. 在切割时，将复合锯与吸尘装置相连接。
13. 开槽时要小心。
14. 在搬运此电动工具时，请勿抓住其支架。应抓住手柄而不要抓住支架。
15. 须在电动机达到最大转速时才开始切割。
16. 发现异常情况时应迅速断开开关。
17. 在切断电源并等到锯条停止之后，方可对工具进行维修或调整。
18. 在进行斜接切割或斜角切割中，在锯条完全停止转动之后，方能升高锯条。

规　格

最大切割容量 高 × 宽	0°	59 mm × 144 mm（89 mm × 101 mm）
	斜接 45°	59 mm × 102 mm（89 mm × 70 mm）
	斜面 45°	41 mm × 144 mm
	斜接 + 斜面 45°	41 mm × 102 mm（44 mm × 89 mm）
锯条直径		255 mm
斜接切割角		右 0°～60°，左 0°～45°
斜面切割角		左 0°～45°
功率输入*		1640 W
空载转速		4900/分
重量（净重）		14 公斤

* 务请确认产品上的铭牌，因其规格依地区而异。

标准附件

(1) 255 mm TCT 锯条 1
(2) 防尘袋 1
(3) 10 mm 套筒扳手 1
(4) 虎钳组件 1
(5) 圈 (B)（安装于电动工具上） 1
标准附件若有变更，恕不另行通知。

选购件（另售）

(1) 扩展支架和止动片
(2) 用于切面光滑的锯条 255 mm TCT 锯条（总锯齿：60）
(3) 用于普通切割的锯条 255 mm TCT 锯条（总锯齿：70）
选购件若有变更，恕不另行通知。

用途

○ 切割各种类型的铝制框架和木材。

打开包装

○ 请小心打开电动工具和所有相关物品（标准附件）的包装。
○ 请仔细核对所有相关物品（标准附件）齐备无误。

作 业 之 前

1. 电源
确认所使用的电源与工具铭牌上标示的规格是否相符。

2. 电源开关：
确认电源开关是否切断。若电源开关接通，则插头插入电源插座时电动工具将出其不意地立刻转动，从而招致严重事故。

3. 延伸线缆：
若作业场所移到离开电源的地点，应使用容量足够、铠装合适的延伸线缆，并且要尽可能地短些。

4. 当准备运输电动工具时，其主要部件须用锁定插销固定。
稍稍移动手柄，可使锁定插销脱落。
在运输过程中，将锁定插销锁在齿轮箱内（图 2）。

5. 将防尘袋安装在电动工具上（图 1）。

6. 将侧手柄安装在回转台上（图 1）。

7. 请将电动工具安装在水平的工作台上。
选择长度适合工作台厚度的 8 mm 直径螺栓。
螺栓长度至少为 25 mm 加工作台厚度。
例如，在 25 mm 厚度工作台上使用 8 mm × 50 mm 螺栓。

8. 使用虎钳组件（标准附件）（图 3）。
(1) 可拧松 6 mm 翼栓 (A)，将虎钳组件安装在左挡板〔挡板 (B)〕或右挡板〔挡板 (A)〕。
(2) 根据工件的高度，可拧松 6 mm 翼栓 (B) 来升高或降低螺拴支架。调节结束后，须拧紧 6 mm 翼栓 (B) 并固定螺拴支架。
(3) 转动上旋钮并将工件固定于适当位置。

9. 安装支架（选购件）（图 4）
在切割操作中，支架可用于延长工件台并使之保持正确位置。
(1) 方钢用于将支架上缘对齐底座面。
(2) 对齐后，用 6 mm 翼栓固定支架。

10. 精确切割用止动片（选购件）（图 5）
止动片有助于以 255 mm～420 mm 的长度进行连续精确切割。要安装止动片时，请用 6 mm 翼栓将其安装在支架上。

使用前调节电动工具

注意：
在插入电源插头之前，请完成所有必需的调节。

1. 确认安全罩操作顺畅。

注意：
○ 此复合锯带有一个安全装置∩锯头锁定装置。
○ 切割时若要降低锯头，须用拇指按连杆解除锁定。

(1) 按着连杆推下手柄时，确认安全罩转动顺畅（图 6）。
(2) 然后，在拉起手柄时确认安全罩已回到原来位置。

2. 确认锯条低限位置（图 7）。
确认锯条可以降低到导板以下 41～42 mm。
如果需要，请按以下步骤进行操作：
(1) 拧松 8 mm 深度调节螺栓上的 8 mm 锁定螺母。
(2) 按需要转动 8 mm 深度调节螺栓以设定低限位置。
逆时针转动 8 mm 深度调节螺栓时，锯条则升高；顺时针转动时，锯条则降低。
(3) 调节结束后，彻底拧紧 8 mm 锁定螺母。

注意：
○ 在拧紧 8 mm 锁定螺母之前，请确认已将锯条调节成不会切割到桌面。

实际应用

注意：
○ 在锯条转动时取下或安装工件非常危险。
○ 在进行切割作业时，请从回转台上清除刨花。
○ 如果刨花堆积太多，切割材料的锯条便会暴露。切勿让您的手或其他任何东西靠近暴露的锯条。

1. 用虎钳组件紧紧固定要切割的材料，使其在切割中不会移动。

2. 开关操作
拉动触发器打开开关。松开触发器便可关闭开关。

3. 在导板上切槽

操作前须在导板上切槽。务必用虎钳组件将一块约140 mm 宽的木块放在回转台上，以防导板破裂。打开开关而且锯片达到最高速度后，慢慢地按下手柄在导板上切槽。

注意

切槽请勿过快，否则导板可能会被损坏。

4. 使用虎钳组件（标准附件）（图 3）

(1) 可拧松 6 mm 翼栓（A），将虎钳组件安装在左挡板〔挡板（B）〕或右挡板〔挡板（A）〕。

(2) 根据工件的高度，可拧松 6 mm 翼栓（B）来升高或降低螺栓支架。调节结束后，须拧紧 6 mm 翼栓（B）并固定螺栓支架。

(3) 转动上旋钮并将工件固定于适当位置。

警告

○ 须始终夹紧夹具或虎钳以确保工件固定在挡板上，否则工件可能会从导板上飞出并造成人身伤害。

注意

○ 须确保虎钳降低进行切割时不会与电动头接触。如果有可能碰到，请松开 6 mm 翼栓（B）并将虎钳组件移到不会碰到锯片的位置。

5. 切割操作

(1) 在打开开关并确认锯条正以最高速度转动之后，按下连杆，同时慢慢地按下手柄，并将锯条移到切割材料的附近。

(2) 锯条接触到工件时，慢慢地按下手柄开始切割。

(3) 在切割（或所需的切入）完成后，将手柄抬起到收回位置。

(4) 切割作业均完成后关掉电动工具。在准备进行下一个操作之前，须先让锯条完全停止转动。

注意：

○ 在手柄上增加压力并不意味能够较快地切割工件。相反，过分用力会导致电动机过载，可能会降低切割效果。

○ 切割作业结束后，必须关闭电动工具的开关并从电源插座拔下插头。

6. 斜接切割的步骤（图 8）

(1) 拧松侧手柄。

(2) 调整回转台，直至指针对准斜面角上的所需设定。

(3) 重新拧紧侧手柄，确保回转台处于所需位置。

注意：

切勿拆下侧手柄，在无侧手柄的状态下使用此电动工具可能会发生危险。

为了防止事故或人体伤害，必须切实拧紧斜面手柄。

注：

○ 在 0° 中心设定的右侧和左侧，在右侧设定的 15°、22.5°、30°、45° 和 60°及在左侧设定的 15°、22.5°、30° 和 45° 位置，回转台均会停止转动。

确认斜面角尺与指针的前端是否对准。

○ 在斜面角尺与指针未对齐或斜面手柄未拧紧的状态下使用电动工具，会导致切割精度低下。

7. 斜角切割步骤（图 9）

(1) 拧松夹紧杆并使锯条向左侧倾斜。

(2) 看着角尺和指针将斜角调整为所需设定，然后再固定夹紧杆。

警告：

○ 在进行左斜角切割作业时，逆时针转动副挡板（图 1）。只有逆时针转动副挡板，电动工具主体或锯条才不会接触副挡板，从而避免受伤。

○ 工件固定于锯条左侧时，短小的切除部分会停留在锯条右侧。在从工件上抬起手柄之前，必须先切断电源并让锯条完全停止转动。

○ 如果在锯条仍在转动时抬起手柄，被切除的碎片可能会卡住锯条，导致碎片撒开，非常危险。

8. 复合切割步骤

您可以按照以上第 6 和第 7 步的说明进行复合切割。在 45° 的斜角和 45° 的斜接角。

警告：

○ 在进行复合切割时，必须用右手柄侧来固定工件。

○ 在进行复合切割时，切勿将回转台转向右侧，因为锯条可能会接触到固定工件的夹具或虎钳，从而导致人体受伤或工具损坏。

9. 安装支架（图 4）

在切割操作中，支架可用于延长工件台并使之保持正确位置。

(1) 方钢用于将支架上缘对齐底座面。

(2) 对齐后，用 6 mm 翼栓固定支架。

注意：

○ 搬移或携带本工具时，请勿抓住支架。

○ 支架有滑出底座的危险。请抓住手柄而不是支架。

锯条的安装和拆卸

警告：

为了防止事故或人体伤害的发生，在拆卸或安装锯条之前必须首先关闭开关并从电源插座拔下插头。

1. 安装锯条（图 10，图 11 和图 12）。

(1) 用 10 mm 套筒扳手按下锁杆并拧松螺栓。
因为螺栓为左侧螺纹，因此须向右转动将其拧松。

注：

○ 如果难以按下锁杆以锁定主轴，则边在锁杆上施加压力，边用 10 mm 套筒扳手转动螺栓。

○ 当向内按下锁杆时，锯条主轴被锁定。

(2) 取下螺栓和垫圈 (B)。

(3) 抬起安全罩并安装锯条。

警告：

当安装锯条时，请确认锯条上的转动指针标志与齿轮箱的转动方向一致。

(4) 彻底清洁垫圈 (B)、圈 (B) 和螺栓，并将它们安装在锯条主轴上。

(5) 按下锁杆，并用 10 mm 套筒扳手向左侧转动螺栓将其拧紧。

注意：

○ 在安装或取下锯条后，请确认锁杆已恢复收回位置。

○ 拧紧螺栓，使其在作业中不会松开。

○ 在开始使用电动工具之前，请确认螺栓已被拧紧。

2. 拆下锯条

按照上面第 1 节中所述的安装步骤的相反顺序便可拆下锯条。

抬起安全罩后，可方便地拆下锯条。

注意：

○ 切勿试图安装直径为 255 mm 以上的锯条。

○ 务请安装直径为 255 mm 以下的锯条。

维护和检查

警告：

为了避免发生事故和人体伤害，在对本电动工具进行任何维修和检查之前，必须先确认已关闭开关及已从电源插座拔下电源插头。

1. 检查锯条

因为使用不锋利的锯条会降低切割效果并可能会导致电动机故障，因此发现磨损后应尽快磨快或更换锯条。

2. 检查安装螺钉

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

3. 检查炭刷（图 13）。

电动机使用炭刷（消耗品）。因为极度磨损的炭刷会导致电动机发生故障，因此当炭刷磨损后或接近“磨损极限”时请及时换上新炭刷。此外，炭刷应经常保持清洁状态，以保证它们在刷握内滑动自如。

4. 更换炭刷

用负号螺丝起子拆下炭刷盖。这样便可轻易地拆下炭刷。

5. 电动机的维护

电动机绕线是电动工具的心脏部。应仔细检查有无损伤，是否被油液或水沾湿。

6. 润滑油

每月应润滑以下滑动面一次，以使电动工具长时间保持良好的工作状态。

请使用推荐的机油。

注油位置：

* 回转支架的转动部分
* 副挡板的转动部分
* 虎钳组件的转动部分

7. 清洁

定期用蘸有肥皂水的湿布擦除碎屑和其他杂物。为了避免电动机发生故障，请勿使其接触油或水。

注： 为求改进，本手册所载规格可能不预先通告而予以更改。

GENERAL OPERATIONAL PRECAUTIONS

WARNING!

When using power tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following.
Read all these instructions before attempting to operate this product and save these instructions.

1. Keep work area clean. Cluttered areas and benches invite injuries.
2. Consider work area environment. Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep work area well lit.
   Do not use tools in the presence of flammable liquids or gases.
   Power tools produce sparks during operation. They also spark when switching ON/OFF. Never use power tools in dangerous sites containing lacquer, paint, benzine, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.
3. Guard against electric shock. Avoid body contact with earthed or grounded surfaces. For example; pipes, radiators, refrigerator enclosures.
4. Keep other persons away. Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area.
5. Store idle tools. When not in use, tools should be stored in a dry locked-up place, out of reach of children.
6. Do not force the tool. It will do the job better and safer at the rate for which it was intended.
7. Use the right tool. Do not force small tools to do the job of a heavy duty tool. Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.
8. Dress properly. Do not wear loose clothing or jewelry. They can be caught in moving parts. Non-skid footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
9. Use protective equipment. Use safety glasses. Use face or dust mask if cutting operations create dust.
10. Connect dust extraction equipment.
    If device are provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.
11. Do not abuse the cord. Never yank the cord to disconnect it from the receptacle. Keep the cord away from heat, oil and sharp edges.
12. Secure work. Where possible use clamps or a vise to hold the work. It is safer than using your hand.
13. Do not overreach. Keep proper footing and balance at all times.
14. Maintain tools with care. Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
15. Disconnect tools. When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.
16. Remove adjusting keys and wrenches. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
17. Avoid unintentional starting. Do not carry plugged-in tool with finger on switch. Ensure switch is in “off” position when plugging in.
18. Use outdoor extension leads. When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.
19. Stay alert. Watch what you are doing. Use common sense. Do not operate the tool when you are tired.
20. Check damaged parts. Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated in this handling instructions. Have defective switches replaced by an authorized service center. Do not use the tool if the switch does not turn it on and off.
21. Do not use power tools for applications other than those specified in the handling instructions.
22. Warning
    The use of any accessory or attachment other than one recommended in this handling instructions or the HITACHI catalog may present a risk of personal injury.
23. Repairing must be done only by authorized service facility. Manufacturer is not responsible for any damages and injuries due to the repair by the unauthorized persons as well as the mishandling of the tool.
24. Have your tool repaired by a qualified person. This power tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.
25. To ensure the designed operational integrity of power tools, do not remove installed covers or screws.
26. Do not touch movable parts or accessories unless the power source has been disconnected.
27. Use your tool at lower input than specified on the nameplate; otherwise, the finish may be spoiled and working efficiency reduced due to motor overload.
28. Do not wipe plastic parts with solvent. Solvents such as gasoline, thinner, benzine, carbon tetrachloride, alcohol, may damage and crack plastic parts. Do not wipe them with such solvent. Clean plastic parts with a soft cloth lightly dampened with soapy water.
29. Use only original HITACHI replacement parts.
30. This tool should only be disassembled for replacement of carbon brushes.
31. The exploded assembly drawing on this handling instructions should be used only for authorized service facility.
32. Never cut ferrous metals or masonry.

PRECAUTION FOR COMPOUND SAW

1. Never use the compound saw with its safety cover locked in the open position.
2. Ensure that the safety cover moves smoothly.
3. Do not use the saw without guards in position.
4. Always keep the saw blade sharp.
5. Do not use saw blades which are damaged or deformed.
6. Use only saw blades recommended by HITACHI.
7. Select saw blades in relation to the material to be cut.
8. Never operate the compound saw with the saw blade turned upward or to the side.
9. Ensure that the workpiece is free of foreign matter such as nails.
10. Replace table insert when worn.
11. Do not use the saw to cut other than aluminium, wood or similar materials.

12. Connect compound saw to a dust collecting device when sawing.
13. Take care when slotting.
14. When transporting or carrying the tool, do not grasp the holder. Grasp the handle instead of the holder.
15. Start cutting only after motor revolution reaches maximum speed.
16. Promptly cut OFF the switch when abnormality observed.
17. Shut off power and wait for saw balde to stop before servicing or adjusting tool.
18. During a miter or bevel cut the blade should not be lifted until it has stopped rotation completely.

SPECIFICATIONS

Max. Cutting Capacity Height x Width	0°	59 mm × 144 mm (89 mm × 101 mm)
	Miter 45°	59 mm × 102 mm (89 mm × 70 mm)
	Bevel 45°	41 mm × 144 mm
	Miter + Bevel 45°	41 mm × 102 mm (44 mm × 89 mm)
Saw Blade Diameter		255 mm
Miter Cutting Angle		Right 0° ~ 60°, Left 0° ~ 45°
Bevel Cutting Angle		Left 0° ~ 45°
Power Input*		1640 W
No-Load Speed		4900/min
Weight (Net)		14 kg

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

STANDARD ACCESSORIES

(1) 255 mm TCT Saw blade 1
(2) Dust bag 1
(3) 10 mm Box wrench 1
(4) Vise Assembly 1
(5) Collar (B) (mount on tool) 1
Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)

(1) Extension Holder and Stopper
(2) Saw blade 255 mm TCT Saw blade for fine surface (Total teeth:60)
(3) Saw blade 255 mm TCT Saw blade for normal cut (Total teeth:70)
Optional accessories are subject to change without notice.

APPLICATION

○ Cutting various types of aluminium sash and wood.

UNPACKING

○ Carefully unpack the power tool and all related items (standard accessories).
○ Check carefully to make certain all related items (standard accessories) are present.

PRIOR TO OPERATION

1. **Power source**
Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
2. **Power switch**
Ensure that the power switch is in the OFF position. If the plug is conencted to a receptacle while the trigger switch is in the ON position, the power tool will start operating immediately, inviting serious accident.
3. **Extention cord**
When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.
4. When the power tool is prepared for shipping, its main parts are secured by a locking pin.
Move the handle slightly so that the locking pin can be disengaged.
During transport, lock the locking pin into the gear case. (**Fig. 2**).
5. **Attach the dust bag to the main unit (Fig. 1).**
6. **Attach the side handle to the turntable (Fig. 1).**
7. **Installation**
Attach the power tool to a level, horizontal work bench. Select 8 mm diameter bolts suitable in length for the thickness of the work bench.
Bolt length should be at least 25 mm plus the thickness of the work bench.
For example, use 8mm × 50 mm bolts for a 25 mm thick work bench.
8. **Using the vise assembly (Standard accessory) (Fig. 3).**
(1) The vise assembly can be mounted on either the left fence {Fence (B)} or the right fence {Fence (A)} by loosening the 6 mm wing bolt (A).
(2) The screw holder can be raised or lowered according to the height of the workpiece by loosening the 6 mm wing bolt (B). After the adjustment, firmly tighten the 6 mm wing bolt (B) and fix the screw holder.
(3) Turn the upper knob and securely fix the workpiece in position.
9. **Installing the holders (Optional accessory) (Fig. 4).**
The holders help keep longer workpieces stable and in place during the cutting operation.
(1) Use a steel square for aligning the upper edge of the holders with the base surface.
(2) After aligning, secure the holders with the 6 mm wing bolts.
10. **Stopper (Optional accessory) for precision cutting (Fig. 5).**
The stopper facilitates continuous precision cutting in lengths of 255 mm to 420 mm. To install the stopper, attach it to the holder with the 6 mm wing bolt.

ADJUSTING THE POWER TOOL PRIOR TO USE

CAUTION

Make all necessary adjustments before inserting the plug in the power source.

1. Check to see that the safety cover operates smoothly.

CAUTION

○ This compound saw is equipped with a saw head lock as safety device.

○ To lower the saw head to cut, the lock must be released by pressing the lever with your thumb.

(1) When you push down the handle while pushing the lever, check that the safety cover revolves smoothly **(Fig. 6)**.

(2) Next, check that the safety cover returns to the original position when the handle is raised.

2. Checking the saw blade lower limit position (Fig. 7).

Check that the saw blade can be lowered 41 mm to 42 mm below the table insert.

If necessary, adjust as follows:

(1) Loosen the 8 mm lock nut on the 8 mm depth adjustment bolt.

(2) Turn the 8 mm depth adjustment bolt as necessary to set the lower limit position. The saw blade goes up when the 8 mm depth adjustment bolt is turned counterclockwise and down when it is turned clockwise.

(3) Once the adjustment is complete, fully tighten the 8 mm lock nut.

CAUTION

Before tightening the 8 mm lock nut, confirm that the saw blade is adjusted so that it will not cut into the table.

PRACTICAL APPLICATIONS

CAUTION

○ It is dangerous to remove or install the wrokpiece while the saw blade is turning.

○ When sawing, clean off the shavings from the turntable.

○ If the shavings accumulate too much, the saw blad from the cutting material will be exposed. Never subject your hand or anything else to go near the exposed blade.

1. Tightly secure the material by vise assembly to be cut so that it does not move during cutting.

2. Switch operation.

Pulling the trigger turns the switch on. Releasing the trigger turns the switch off.

3. Cutting a groove on the table insert.

A groove has to be cut in the table insert, before starting operation. Secure a place of wood about 40 mm wide to the turntable with the vise assembly, to prevent the breakage of the table insert. After the switch has been turned on and the saw blade has reached maximum speed, slowly lower the handle to cut a groove on the table insert.

CAUTION

○ Do not cut the groove too quickly; otherwise the table insert might become damaged.

4. Using the vise assembly (Standard accessory) (Fig. 3).

(1) The vise assembly can be mounted on either the left fence {Fence (B)} or the right fence {Fence (A)} by loosening the 6 mm wing bolt (A).

(2) The screw holder can be raised or lowered according to the height of the workpiece by loosening the 6 mm wing bolt (B). After the adjustment, firmly tighten the 6 mm wing bolt (B) and fix the screw holder.

(3) Turn the upper knob and securely fix the workpiece in position.

WARNING

○ Always firmly clamp or vise to secure the workpiece to the fence; otherwise the workpiece might be thrust from the table and cause bodily harm.

CAUTION

○ Always confirm that the motor head does not contact the vise assembly when it is lowered for cutting. If there is any danger that it may do so, loosen the 6 mm wing bolt (B) and move the vise assemlby to a position where it will not contact the saw blade.

5. Cutting operation

(1) After turning on the switch and checking that the saw blade is rotating at maximum speed, slowly push down the handle while holding down the lever and bring the saw blade in the vicinity of the material to be cut.

(2) When the saw blade contacts the workpiece, push the handle down gradually to produce cutting.

(3) When the cutting (or desired cutting-in) has been completed, raise the handle up to the retract position.

(4) Turn the tool OFF after each cutting operation is completed, and allow the saw blade to come to a complete stop before preparing for the next operation.

CAUTION

○ Increased pressure on the handle does not necessarily mean faster cutting of the workpiece. On the contrary, too much force may result in overload of the motor and/or decreased cutting efficiency.

○ Ensure the switch is turned OFF and the plug is removed from the power outlet when work has been completed.

6. Miter cutting procedure (Fig. 8).

(1) Loosen the side handle.

(2) Adjust the turntable until the indicator aligns with the desired setting on the miter angle.

(3) Re-tighten the side handle to secure the turntable in the desired position.

CAUTION

Never remove the side handle; use of the tool without it would be hazardous.

To prevent an accident or personal injury always firmly tighten the miter handle.

NOTE

○ Positive stops are provided at the right and left of the 0° center setting, at 15°, 22.5°, 30°, 45° and 60° right and 15°, 22.5°, 30° and 45° left settings. Check that the miter angle scale and the tip of the indicator are properly aligned.

○ Operation of the power tool with the miter angle scale and indicator out of alignment, or with the miter handle not properly tightened, will result in poor cutting precision.

7. Bevel cutting procedure (Fig. 9).

(1) Loosen the clamp lever and bevel the saw blade to the left.

(2) Adjust the bevel angle to the desired setting while watching the bevel angle scale and indicator, then secure the clamp lever.

WARNING

○ In the case of left bevel cutting, turn the sub fence (Fig.1) counterclockwise. Unless it is turned counterclockwise, the main body or saw blade may contact the sab fence, resulting in an injury.

○ When the workpiece is secured on the left side of the blade, the short cut-off portion will come to rest on the right side of the saw blade. Always turn the power off and let the saw blade stop completely before raising the handle from the workpiece.

○ If the handle is raised while the saw blade is still rotating, the cut-off piece may become jammed against the saw blade causing fragments to scatter about dangerously.

8. Compound cutting procedure

Compound cutting can be performed by following the instructions in 6 and 7 above. At a bevel of 45° and a miter angle of 45°.

WARNING

○ Always secure the workpiece with the right hand side for compound cutting.

○ Never rotate the turntable to the right for compound cutting, because the saw blade might then contact the clamp or vise that secures the workpiece, and cause personal injury or damage.

9. Installing the holders (Fig. 4).

The holders help keep longer workpieces stable and in place during the cutting operation.

(1) Use a steel square for aligning the upper edge of the holders with the base surface.

(2) After aligning, secure the holders with the 6 mm wing bolts.

CAUTION

○ When transporting or carrying the tool, do not grasp the holder.

○ There is the danger of the holder slipping out of the base. Grasp the handle instead of the holder.

10. Stopper for precision cutting (Fig. 5.).

The stopper facilitates continuous precision cutting in lengths of 255 mm to 420 mm. To install the stopper, attach it to the holder with the 6 mm wing bolt.

MOUNTING AND DISMOUNTING SAW BLADE

WARNING

To prevent an accident or personal injury, always turn off the trigger switch and disconnect the power plug from the receptacle before removing or installing a blade.

1. Mounting the saw blade (Fig. 10, Fig. 11 and Fig. 12).

(1) Press in lock lever and loosen bolt with 10mm box wrench.
Since the bolt is left-hand threaded, loosen by turning it to the right.

NOTE

○ If the lock lever cannot be easily pressed in to lock the spindle, turn the bolt with 10 mm box wrench while applying pressure on the lock lever.

○ The saw blade spindle is locked when the lock lever is pressed inward.

(2) Remove the bolt and washer (B)

(3) Lift the safety cover and mount the saw blade.

WARNING

When mounting the saw blade, confirm that the rotation indicator mark on the saw blade and the rotation direction of the gear case are properly matched.

(4) Thoroughly clean washer (B), collar (B) and the bolt, and install them onto the saw blade spindle.

(5) Press in the lock lever and tighten the bolt by turning it to the left by 10mm box wrench.

CAUTION

○ Confirm that the lock lever has returned to the retract position after installing or removing the saw blade.

○ Tighten the bolt so it does not come loose during operation.

○ Confirm the bolt has been properly tightened before the power tool is started.

2. Dismounting the saw blade

Dismount the saw blade by reversing the mounting procedures described in paragraph 1 above.
The saw blade can easily be removed after lifting the safety cover.

CAUTION

○ Never attempt to install saw blades larger than 10" (255 mm) in diameter.

○ Always install saw blades that are 10" (255 mm) in diameter or less.

MAINTENANCE AND INSPECTION

WARNING

To avoid an accident or personal injury, always confirm the trigger switch is turned OFF and that the power plug has been disconnected from the receptacle before performing any maintenance or inspection of this tool.

1. Inspecting the saw blade

Since use of a dull saw blade will degrade efficiency and cause possible motor malfunction, sharpen or replace the saw blade as soon as abrasion is noted.

2. Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, re-tighten them immediately. Failure to do so could result in serious hazard.

3. Inspecting the carbon brushes (Fig. 13).

The motor employs carbon brushes which are consumable parts. Since an excessively worn carbon brush could result in motor trouble, replace a carbon brush with a new one 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.

4. Replacing a carbon brushes

Disassemble the brush cap with a minus-head screwdriver. The carbon brushes can then be easily removed.

5. Maintenance of the motor

The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

6. Lubrication

Lubricate the following sliding surfaces once a month to keep the power tool in good operating condition for a long time.
Use of machine oil is recommended.
Oil supply points:

* Rotary portion of hinge
* Rotary portion of sub fence
* Rotary portion of vise assembly

7. Cleaning

Periodically remove chips and other waste material from the surface of the power tool with a damp, soapy cloth. To avoid a malfunction of the motor, protect it from contact with oil or water.

NOTE

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

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