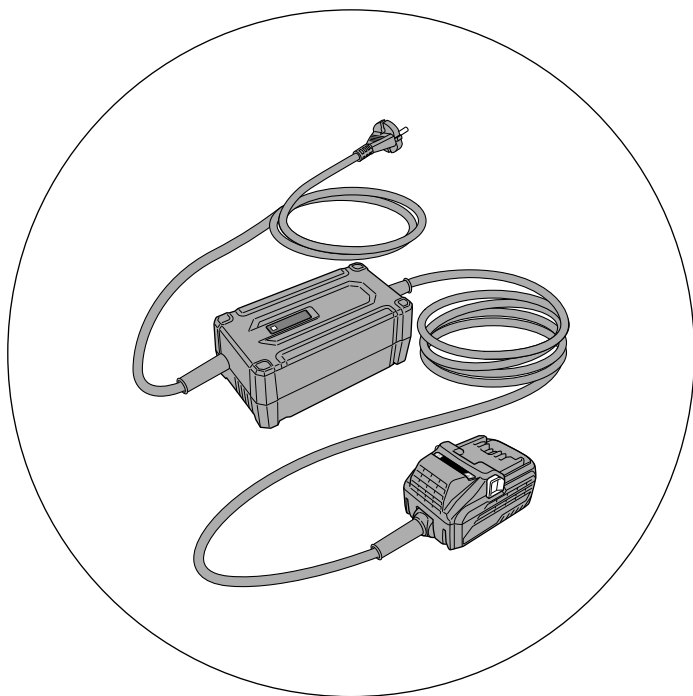


HiKOKI

交/直流转换器
AC/DC ADAPTER

中文
English

ET 36A



保留备用
Keep for future reference



使用说明书
Handling instructions

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交 / 直流转换器安全警告

1. 请仅使用本手册和 HiKOKI 型录中指定的专业电动工具。否则可能导致事故、受伤或故障。
2. 请勿将箱子倒置。
使用前，请将箱子 LED 面朝上。
3. 请正确使用本产品。
 - (1) 请始终在铭牌上所示的电压下使用转换器。请勿与增压器或其他类型的变压器一起使用。
否则可能导致过热或起火。
 - (2) 请勿在低于 -10°C 或者 35°C 以上的温度下使用转换器。
 - (3) 不使用转换器或正在维护和检查时，请将转换器的电源线从插座上拔下。
4. 切勿使可充电电池短路。使电池短路将会造成很大的电流和过热，从而烧坏电池。
5. 请勿用湿手触碰转换器的电源插头。否则可能会导致触电。
6. 避免危险的环境。请勿让电动工具和转换器淋雨。请勿在潮湿的地方使用电动工具和转换器。请保持工作场所明亮。切勿在易燃性或爆炸性物体附近使用电动工具和转换器。请勿在存在易燃液体或气体的地方使用工具和转换器。
7. 请勿将转换器丢入火中。转换器受热将会爆炸。
8. 切勿拆卸转换器。
9. 请勿使用工具或转换器端子（电池安装部位）变形的产品。否则，安装转换器后可能会导致短路，从而造成冒烟或起火。
10. 请清除工具端子（电池安装部位）上的削屑和灰尘。使用前，请确保端子区域未积聚削屑和灰尘。在使用期间，请尽量避免工具上的削屑或灰尘掉落到转换器上。暂停使用时或使用后，应将工具存放在不会掉落削屑或灰尘的地方。否则可能短路，造成冒烟或起火。
11. 请勿以钉子等利器刺穿转换器，以铁锤敲打、踩踏、丢掷转换器或使其受到剧烈撞击。
12. 请勿使用明显损坏或变形的转换器。
13. 使用转换器时请勿装反电极。
14. 保持工作场所清洁。杂乱的场所和工作台易发生意外。

15. 本产品并非供身体、感官、心理能力较差或缺乏经验和知识的人员（包括小孩）使用，除非他们得到了对其安全负责的人员关于本产品使用的监督或指导。应监督小孩，确保他们不玩弄本产品。
16. 储存停用的工具和转化器。工具和转化器不用时，应储存在干燥、较高或上锁（小孩接触不到）的地方。请将工具和转化器储存在温度低于 40°C 的地方。
17. 请勿滥用电源线。切勿通过电源线携带交 / 直流转化器或猛拉电源线以将其从插座上拔下。使电源线远离热源、油和尖锐的边缘。
18. 请妥善保管交 / 直流转化器。
使用前，请检查交 / 直流转化器的插头和电源线。如有任何损坏，请联系经销商进行维修。
19. 如需维修，请联络交 / 直流转化器专营店。
非维修人员不得拆解、修理或改装交 / 直流转化器。
否则，可能会因火灾或故障而造成人身伤害。
交 / 直流转化器如有任何异常，请将其送去检查或维修。
本交 / 直流转化器符合适用的安全标准，请勿对其进行改装。
请务必联系经销商进行维修。
自行维修转化器可能会导致意外事故或人身伤害。
20. 本产品内置有精密零件。避免掉落或受到强烈撞击。
否则可能导致故障。
21. 请确保转化器安装牢固。如果完全松动，则可能脱落并引发事故。
22. 定期检查本产品。
23. 请勿使用工具或交 / 直流转化器端子（交 / 直流转化器安装部位）变形的产品。
否则，安装交 / 直流转化器后可能会导致短路，从而造成冒烟或起火。
24. 请清除工具端子（交 / 直流转化器安装部位）上的削屑和灰尘。
 - 使用前请确保电池上没有堆积削屑和灰尘。
 - 在使用期间，请尽量避免工具上的削屑或灰尘掉落到交 / 直流转化器上。
 - 暂时不使用工具时或使用后，应将工具存放在不会掉落削屑或灰尘的地方。
否则可能短路，造成冒烟或起火。
25. 为防止触电，请连接至配备有接地故障断路器的电源。
26. 使用前，请确保直流电源线绝缘皮未撕裂或外壳未破裂。
请勿使用直流电源线断裂、绝缘皮撕裂或外壳损坏的产品。
27. 开始操作前，确保箱子通风口附近无任何木屑或铁粉。
此外，请勿在富含铁粉的地方使用，或者在有雨、雪或其他可能弄湿本产品的水源处使用。
28. 确保转化器箱中无任何固体金属材料或液体。否则可能导致机器损坏。
29. 小心不要踩踏箱子。此外，请确保将箱子放置在不会被踩到的地方。请勿将箱子放置在下雨时可能会浸水的地方。

30. 转化器、电源箱和直流电源线内部会产生 380V 的升高电压，因此请注意以下事项。
 - 请勿拆解本产品。
 - 请勿跌落或撞击本产品。
本产品因受到强烈撞击而损坏时，请勿使用。
 - 请勿在暴露于雨、雪、铁粉或潮湿的环境中使用本产品。
 - 请勿用湿手触碰本产品。
 - 请勿将液体泼洒或倾倒在本产品上。
 - 请勿用力拉扯电源线。
 - 请在井然有序的工作环境中使用本产品。
31. 当温度保护功能频繁切断电源时，不要让机器超负荷继续工作，而应让机器休息片刻后再继续操作。
32. 机器确实会变热。然而，这并非异常现象。
保持通电状态并运行内部风扇以冷却机器，然后再将其送至其他地方。
33. 在使用期间，请勿拉扯电源线移动箱子。否则可能会导致机器损坏。
34. 请勿使用超过 30 米的单个卷线器。否则可能会导致机器损坏。
35. 在使用期间，如果箱子的 LED 指示灯闪烁后机器停止运行，请确认供电环境。
36. 使用或搬运机器时，请勿拖拽电源线。
否则，可能会撕裂电源线绝缘皮或损坏电源线，从而导致触电。
37. 请勿将电源线拉出规定的范围之外。
使用园艺剪刀或圆锯等工具时，请务必确定电源线的位置，以免在操作期间割断电源线。
38. 要在交 / 直转化器因高温关闭后使用，请先拔下箱子的电源插头，待 LED 指示灯熄灭后再重新插上箱子的电源插头。如果机器在使用内置风扇充分冷却后仍然切断电源，请停止使用，因为机器可能存在问题。
39. 请勿在收音机附近使用本产品。否则可能导致收音机产生噪音，从而难以收听广播。
40. 这是用于多伏产品的电源。请勿与 18V 产品或充电器一起使用。否则可能会导致机器损坏。
41. 与使用 BSL36B18 电池相比，过载行为可能有所不同。
如果使用本应在主机上闪烁 LED 的电池，可能会变为在交 / 直转化器上闪烁 LED。
42. 请勿在心脏起搏器或其他类似植入装置附近使用本产品，这些装置可能会受到本产品产生的磁场的影响。

有关交 / 直流转化器的注意事项

转化器具有停止输出保护功能。使用本产品时，在下述 1 至 2 的情况下，即使拉动开关，电机也可能停止运转。这并非故障问题，而是保护功能作用的结果。

1. 如果工具超载，输出可能会停止。在这种情况下，请松开工具的开关并排除造成过载的原因。
2. 如果转化器在超负荷工作时过热，输出可能会停止。
在这种情况下，请停止使用转化器并将其从工具上拆下。让转化器在通风良好的阴凉处等地方冷却下来。然后再重新使用。

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。

	ET36A: 交 / 直流转化器		开关式电源装置
	为降低伤害风险，用户必须阅读使用说明书		防短路安全隔离变压器
	禁止行为		室内使用
	警告	ta 35°C	额定最高环境温度 35°C
	二类设备	IPX4	国际防护等级

零件名称

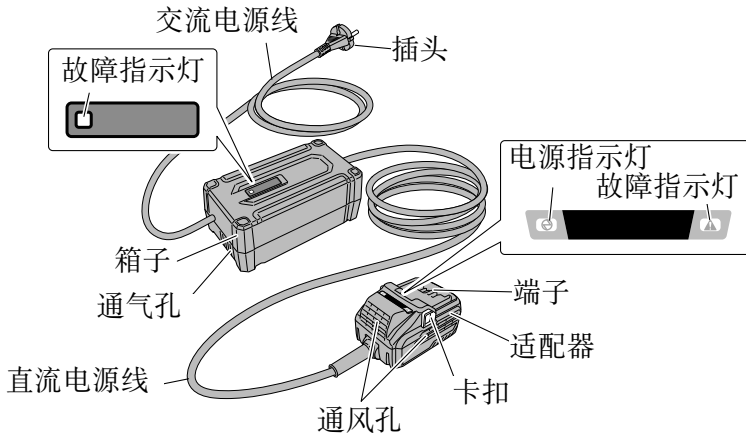


图 1

规格

型号	ET36A
输出电压	36V
输入功率	1010W
运行温度范围	-10°C - 35°C
可用无线产品 *1	兼容多伏电池的专业 36V 产品
重量	转化器：0.8kg 箱子：1.2kg

*1: 详情请参阅本公司的总型录或其他相关信息。

用途

兼容多伏电池的专业 36V 产品直流电源

转化器的拆卸和安装方法

注：

在插入插座之前，请确保以下几点。

- 电源电压在铭牌上注明。
- 电源线无损坏。

警告！

请勿在高于铭牌上注明的电压下使用。

如果以高于铭牌上注明的电压充电，交 / 直流转化器会烧毁。

1. 将交 / 直流转化器的电源线连接到插座。
将转化器的插头连接到插座时，电源指示灯将呈绿色亮起。

警告！

如果电源线损坏，请勿使用。请立即修理。

注意！

切勿使电池短路。

2. 将转化器插入工具中。
如图 2 所示，将转化器紧紧地插入工具中。
3. 转化器拆卸
紧紧握住手柄并推动电池卡扣以卸下转化器（参照图 2）。

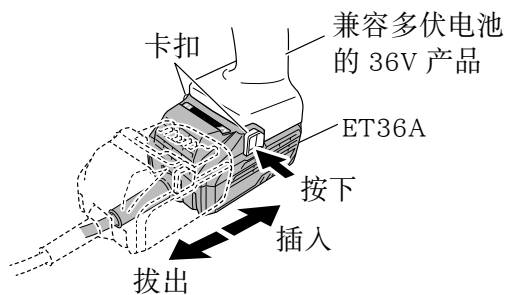














图 2

表 1

指示灯指示					
	状态	电源指示灯 (绿)	故障指示灯 (红)		指示
适配器	使用前	闪烁 	熄灭 		插入电源
	打开电源	点亮 	熄灭 		可以使用工具
	断电	闪烁 	闪烁 	点亮 0.5 秒钟。不点亮 0.5 秒钟。 (熄灭 0.5 秒钟) 	转化器因高温而无法使用。 (转化器冷却后即可使用)
点亮 		点亮 	点亮 0.1 秒钟。不点亮 0.1 秒钟。 (熄灭 0.1 秒钟) 	过载	
箱子	断电	/	闪烁 	点亮 0.5 秒钟。不点亮 0.5 秒钟。 (熄灭 0.5 秒钟) 	因箱内温度过高而无法使用 (箱子冷却后即可使用)

维护和检查

警告！

在进行任何检查或维护之前，请拔出交 / 直流转化器。

1. 检查螺丝

如果螺丝松动，将非常危险。应定期检查螺丝并确保其紧固。

注意！

在螺丝松动的情况下使用此交 / 直流转化器极其危险。

2. 查看灰尘

用软布或用肥皂水浸泡的布可以擦去灰尘。

请勿使用漂白剂、氯、汽油或稀释剂，因为可能会损坏塑料。

定期清理积聚在滑轮护罩（A）和（B）中的任何锯屑。

3. 检查端子（工具和转化器）

确保端子上没有堆积削屑和灰尘。

在操作前、操作时和操作后需要时常检查。

注意！

请清除端子上的削屑或灰尘。

否则可能导致故障。

4. 储存停用的转化器

转化器不用时，应储存在干燥、较高或上锁（小孩接触不到）的地方。

注意！

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。

故障排除指南

警告！

- 为避免意外启动造成人身伤害，在进行任何调整之前，请关掉开关并从电源上拔下插头，然后从工具上拆下交 / 直流转化器。
- 所有电气或机械维修仅可由有资格的维修技术人员进行。联系 HiKOKI 授权服务中心。

现象	可能的原因	解决办法
无法安装到主机上不运转	<ul style="list-style-type: none"> ● 与 14.4V/18V 产品一起使用 ● 与不兼容多伏电池的 36V 产品一起使用。 	与兼容多伏电池的 36V 产品一起使用。
突然停止	工具或交 / 直流转化器过热	让工具和交 / 直流转化器完全冷却。
	工具超载	排除过载原因
频繁停止	由于在高负荷下持续使用而激活保护功能。	不属于故障。操作本装置时，请避免高负荷。
	箱子或转化器的通风孔因被布料或木屑等障碍物堵塞而导致过热	清除堵塞通风孔的所有障碍物，以使空气到达箱子和转化器。
箱子的故障指示灯闪烁并停止	箱子温度较高	拔下箱子的电源插头，使其完全冷却。
	电源出现故障	使用多插座或单插座延长线可能导致电压不足。断开电源后，请等待 30 秒以上再重新连接。
转化器很热	持续使用会发热	继续通电，让装置通过风扇或在通风良好的阴凉处充分冷却。
过载保护功能运行出现问题	使用电池和使用交 / 直流转化器时，过载保护功能的激活条件会有所不同	不属于故障。为保护装置，请避免在运行期间过载。

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AC/DC ADAPTER SAFETY WARNINGS

1. Please only use the professional power tools specified in this manual and in HiKOKI catalogs. Failure to do so may result in accident, injury or malfunction.
2. Do not place the box upside down.
Prior to use, place the box LED side up.
3. Please use the product properly.
 - (1) Always use the adapter at the voltage specified on the nameplate. Do not use with boosters or other types of transformers.
Doing so could result in overheating or fire.
 - (2) Do not use the adapter at temperatures less than -10°C or at 35°C or higher.
 - (3) When the adapter is not in use or when being maintained and inspected, disconnect the power cord of the adapter from the receptacle.
4. 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.
5. Do not handle the adapter's power plug with wet hands. Doing so may result in electric shock.
6. Avoid dangerous environment. Don't expose power tools and adapter to rain. Don't use power tools and adapter in damp or wet locations. And keep work area well lit. Never use power tools and adapter near flammable or explosive materials. Do not use tool and adapter in presence of flammable liquids or gases.
7. Do not dispose of the adapter in fire. If the adapter is burnt, it may explode.
8. Never disassemble the adapter.
9. Do not use the product if the tool or the adapter terminals (battery mount) are deformed. Installing the adapter could cause a short circuit that could result in smoke emission or ignition.
10. Keep the tool's terminals (battery mount) free of swarf and dust. Prior to use, make sure that swarf and dust have not collected in the area of the terminals. During use, try to avoid swarf or dust on the tool from falling on the adapter. When suspending operation or after use, do not leave the tool in an area where it may be exposed to falling swarf or dust. Doing so could cause a short circuit that could result in smoke emission or ignition.

English

11. Do not pierce adapter with a sharp object such as a nail, strike with a hammer, step on, throw or subject the adapter to severe physical shock.
12. Do not use an apparently damaged or deformed adapter.
13. Do not use the adapter in reverse polarity.
14. Keep work area clean. Cluttered areas and benches invite accidents.
15. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.
16. Store idle tools and adapter. When not in use, tools and adapter should be stored in dry, high or locked-up place — out of reach or children. Store tools and adapter in a place in which the temperature is less than 40°C.
17. Don't abuse cord. Never carry AC/DC adapter by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
18. Take good care of the AC/DC adapter.
Prior to use, inspect the plug and cord of the AC/DC adapter. If there is any damage, contact the place of purchase for repairs.
19. For repairs, use a store that specializes in AC/DC adapters.
Persons other than a service person should not take apart, repair or modify the AC/DC adapter.
Doing so could result in injury from fire or malfunction.
If there are any abnormalities to the AC/DC adapter, send it out to be inspected or repaired.
Do not modify this AC/DC adapter as it conforms to applicable safety standards.
Always contact the place of purchase for repairs.
Repairing the adapter yourself could result in accident or injury.
20. The product has built-in precision parts. Avoid dropping or inflicting strong impact.
Doing so may cause malfunction.
21. Make sure that the adapter is installed firmly. If it is as all loose it could come off and cause an accident.
22. Periodically inspect the product.
23. Do not use the product if the tool or the AC/DC adapter terminals (AC/DC adapter mount) are deformed.
Installing the AC/DC adapter could cause a short circuit that could result in smoke emission or ignition.
24. Keep the tool's terminals (AC/DC adapter mount) free of swarf and dust.
 - Prior to use, make sure that swarf and dust have not collected in the area of the terminals.
 - During use, try to avoid swarf or dust on the tool from falling on the AC/DC adapter.
 - When suspending operation or after use, do not leave the tool in an area where it may be exposed to falling swarf or dust.
Doing so could cause a short circuit that could result in smoke emission or ignition.

25. To prevent electric shock, connect to a power source equipped with a ground fault circuit breaker.
26. Prior to use, make sure that the DC cord insulation is not torn or that the case is not cracked.
Do not use the product if there is a break in the DC cord, the insulation is torn, or the case is damaged.
27. Before starting operation, make sure that the vicinity of the box's vent is free from any wood shavings or iron powder.
Also, do not use in locations where iron powder is abundant, or in areas where there is rain, snow or other water sources that could wet the product.
28. Make sure there are no solid metal material or liquid in the adapter box. Failure to do so may result in damage.
29. Be careful not to step on the box. Also, make sure the box is placed in a location where it won't be stepped on. Do not place in a location where the box could be immersed in water when it rains.
30. The adapter, power supply box and the inside of the DC cord generates a boosted high voltage of 380 V so please be careful of the following.
 - Do not disassemble the product.
 - Do not drop or expose to impact.
In the event the product is damaged from strong impact, do not use the product.
 - Do not use the product in areas exposed to rain, snow, iron powder or wet condition.
 - Do not touch the product with wet hands.
 - Do not spill or pour liquid onto the product.
 - Do not pull the cord with excessive force.
 - Use the product in a well-ordered work environment.
31. When the temperature protective feature frequently cuts the power off, do not overload the machine with continued work, but let the machine rest for a little before continuing operation.
32. The machine does get hot. However, this does not indicate an abnormality.
Keep the electricity running and operate the internal fan to cool the machine before carrying it elsewhere.
33. During use, do not pull the cord to move the Box. Doing so may result in damage.
34. Do not use more than a single cord reel of 30 meters. Doing so may result in damage.
35. During use, if the machine stops running after the Box's LED lamp blinks, confirm the power supply environment.
36. Do not drag the cord when using or carrying the machine.
Doing so may tear the cord insulation or break the cord which could result in electric shock.
37. Do not stretch the cord out any more than required.
When using tools such as gardening clippers or circular saws, always make sure of the power cord's position to avoid cutting the cord during operation.

English

38. To use the AC/DC adapter after it shuts down due to high temperature, disconnect the box's power plug, wait for the LED lamp to go out and then reconnect the box's power plug. If the machine cuts off even after sufficiently cooling it off with the built-in fan, discontinue use as there may be a problem with the machine.
39. Do not use this product near a radio. Doing so could cause noise from the radio, making it difficult to listen to a broadcast.
40. This is a power source for multi volt products. Do not use with 18 V products or chargers. Doing so could result in damage.
41. Overload behavior may differ when compared with BSL36B18 battery use. With the battery where the LED should blink on the main unit, the LED on the AC/DC adapter may blink instead.
42. Do not use this product near a pacemaker or other similar implanted device, which may be affected by a magnetic field produced by this product.

PRECAUTIONS FOR AC/DC ADAPTER









The adapter equips with the protection function to stop the output. In the cases of 1 to 2 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. If the tool is overloaded, output may stop. In this case, release the switch of tool and eliminate causes of overloading.
2. If the adapter is overheated under overload work, output may stop. In situations like this, discontinue use of the adapter and detach it from the tool. Allow the adapter to cool in a location such as a shaded area with good air circulation. After that, you can use it again.

SYMBOLS

WARNING

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

	ET36A: AC/DC Adapter		Switch mode power supply unit
	To reduce the risk of injury, user must read instruction manual		Short-circuit-proof safety isolating transformer
	Prohibited action		Indoor use
	Warning	ta 35°C	Rated max. ambient temperature 35°C
	Class II equipment	IPX4	International protection grade

NAME OF PARTS

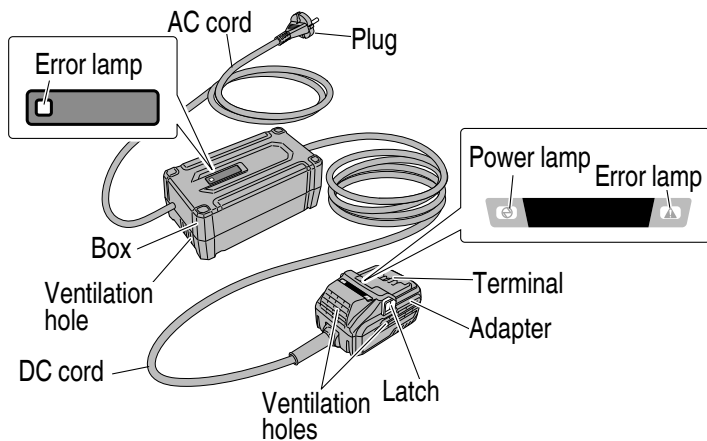


Fig. 1

SPECIFICATIONS

Model	ET36A
Output voltage	36 V
Power input	1010 W
Operating temperature range	-10°C–35°C
Available cordless products*1	Professional 36 V products compatible with multi volt battery
Weight	Adapter : 0.8 kg Box : 1.2 kg

*1: For details, see our general catalog or other related information.

APPLICATIONS

DC power supply for professional 36 V product compatible with multi volt battery

REMOVAL AND INSTALLATION METHOD OF ADAPTER

NOTE

Before plugging into the receptacle, make sure the following points.

- The power source voltage is stated on the nameplate.
- The cord is not damaged.

WARNING

Do not use at voltage higher than indicated on the nameplate.

If charged at voltage higher than indicated on the nameplate, the AC/DC adapter will burn up.

1. Connect the AC/DC adapter's power cord to the receptacle.
When connecting the plug of the adapter to a receptacle, the power lamp will lights in green.

WARNING

Do not use the electrical cord if damaged. Have it repaired immediately.

CAUTION

Never short-circuit the battery.

2. Insert the adapter into the tool.
Firmly insert the adapter into the tool as shown in **Fig. 2**.
3. Adapter removal
Hold the handle tightly and push the battery latch to remove the adapter (see **Fig. 2**).

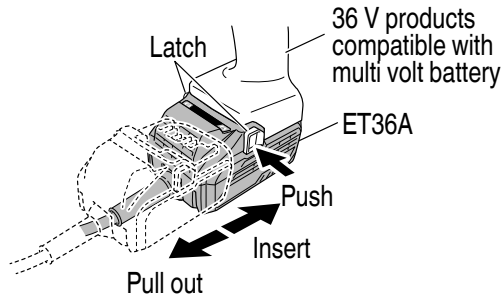













Fig. 2

Table 1

Indications of the indicator lamp						
	Status	Power Lamp (GREEN)	Error lamp (RED)		Indicates	
Adapter	Before use	Blinks 	Light off 		Plugged into power source	
	Power on	Lights 	Light off 		Tool can be used	
	Power suspended	Blinks 	Blinks 	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds) 		Adapter cannot be used due to high temperature. (Can be used once the adapter is cooled)
		Lights 		Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds) 		
Box	Power suspended	/	Blinks 	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds) 	Cannot be used because the temperature in the box is too high (Can be used once the box is cooled)	

MAINTENANCE AND INSPECTION

WARNING

Pull out AC/DC adapter before doing any inspection or maintenance.

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

CAUTION

Using this AC/DC adapter with loosened screws is extremely dangerous.

2. Check for Dust
Dust may be removed with a soft cloth or a cloth dampened with soapy water.
Do not use bleach, chlorine, gasoline or thinner, for they may damage the plastics.
3. Inspection of terminals (tool and adapter)
Check to make sure that swarf and dust have not collected on the terminals.
On occasion check prior, during and after operation.

CAUTION

**Remove any swarf or dust which may have collected on the terminals.
Failure to do so may result in malfunction.**

4. Store idle adapter
When not in use, the adapter should be stored in dry, high or locked-up place — out of reach of children.

CAUTION

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

TROUBLESHOOTING GUIDE

WARNING

- To avoid injury from an accidental start, turn the switch OFF and remove the plug from the power source and remove the AC/DC adapter from the tool before making any adjustments.
- All electrical or mechanical repairs should be done only by qualified service technicians. Contact HiKOKI Authorized Service Center.

Symptom	Possible cause	Remedy
Cannot be attached to the main unit Does not operate	<ul style="list-style-type: none">● Used with a 14.4 V/18 V product● Used with a 36 V product that is incompatible with a multi volt battery.	Use with a 36 V product that is compatible with multi volt battery.

Suddenly stops	The tool or the AC/DC adapter became overheated	Allow the tool and the AC/DC adapter to fully cool.
	The tool was overloaded	Remove the cause of the overload.
Frequently stops	Protection function activated due to consecutive use with high workloads.	Not a problem. Avoid high workloads when operating unit.
	Overheating caused by the box or adapter's ventilation hole being blocked by obstructions such as cloth or wood scraps	Remove any obstructions blocking the ventilation hole to allow air to reach the box and adapter.
The box's error lamp blinks and comes to a halt	Box at high temperature	Disconnect the box's power plug and allow the box to fully cool.
	Problem with power source	Use of multi-outlet or single outlet extension cords may cause insufficient voltage. When the power source is disconnected, allow over 30 seconds to pass before reconnecting.
The adapter is hot	Heats up with continuous use	Continue with electric conduction and allow the unit to fully cool by fan or in a shaded area with good air circulation.
Something is wrong with the operation of the overload protection function	Overload protection function's activation conditions vary when using a battery as opposed to using an AC/DC adapter	Not a problem. To protect the unit, avoid overload during operation.

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