型號: PT-1146(上海)
尺寸: 143x215mm

2009/04/28

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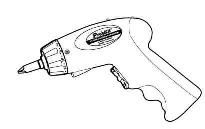
Pro'sKit® **PT-1146**



CO[illegible] SC[illegible]R
IN[illegible]TRU[illegible]IO[illegible] MA[illegible]

充電型調速螺絲起子組

Thank you for choosing this Power Cordless Screwdriver.

To ensure that you get the best results from this product, please read all of these safety and operating instructions carefully before use. Please pay particular attention to all sections of this Instruction Booklet that carry these warning symbols and notices.

⚠ **WARNING!**
This is a Warning symbol. This symbol is used throughout the Instruction Booklet whenever there is a risk of personal injury. Ensure that these warnings are read and understood at all times.

⚠ **CAUTION!**
This is a Caution symbol. This symbol is used throughout the Instruction Booklet whenever there is a risk of damaging your Power Devil product. Ensure that these warnings are read and understood at all times.

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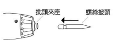
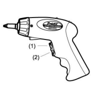
操作指示：

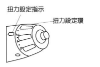
(1)插入螺絲批頭：
將螺絲批頭推入電動起子的螺絲孔內，如要取出螺絲批頭，一手固定電動起子用力拉出螺絲批頭，如用此方式無法取出，螺絲批頭請利用鉗子用力取出



(2)操作開關：
- 操作開關屬於翹板型，可以提供更改充電起子的正/反旋轉方向。
  - 需要順時針旋轉時，請按上開關的「1」位置；需要逆時針旋轉時，請按下的開關的「2」位置。
- 開關置於中央不按時，即為「關」，則停止操作。



(3)扭力調整：
- 選擇你想要的扭力，轉動扭力調整環，將扭力轉至想要扭力值的位置。扭力由大至小，「1」最小、「22」最大。
- 22段扭力值是為了提供給不同材質、尺寸的螺絲，不同扭力值需求使用。



(4)電量顯示：
- 在空載轉動狀態下，按下LED燈旁的小按鈕，紅黃綠LED燈分別表示電池電量之低中高。

⚠ [illegible]用電[illegible]牆或地板前，請[illegible]有電源與[illegible]
在[illegible]螺絲前，最好是[illegible]免螺絲崩裂[illegible]不要過[illegible]螺[illegible]免[illegible]選擇[illegible]太大，也有[illegible]致滑[illegible]時[illegible]是[illegible]向是[illegible]。

清[illegible]保養

⚠ [illegible]執行[illegible]時，請不要去轉動[illegible]

使用後，將螺絲批頭及螺絲批頭孔上的髒東西及屑片清潔乾淨，用軟布將電動工具的手柄擦拭乾淨，保持手柄處的清潔，不要沾上油污。磨損或不良的零件，必須請合格人員更新，此電動起子沒有消費者可以自行維修的零件，如需內部保養，請找[illegible]服務人[illegible]充電器及[illegible]盒內。

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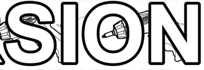
d. 不用的電動工具，請遠離小孩；且不熟悉使用電動工具的人，不要操作電動工具；在未經訓練下，擅自使用電動工具是危險的行為。
e. 當電動工具在更換零件後，應請檢查是否密合、裝配妥善。彎曲、破損或其他會影響電動工具的操作；如果有，請在操作前重新裝妥！許多的事故發生，是來自於沒有勤加保養電動工具而產生。
f. 使用不同的電動工具、配件及起子批頭，需遵照操作使用說明書的操作方法，這樣將對提升工作效率有助益；不遵照操作使用說明書的操作方法使用電動工具，將導致危險。

5) 電池使用及保養
a. 在放入電池時，請確定電動工具的電源開關在「關」的位置；在電池置入電動工工具時，如電源開關在「開」的位置，將導致危險。
b. 充電器請用原廠的配件，如不是使用原廠的充電器，也許會有火災的危險。
c. 請使用電動工具的專用電池，如用其他電池，有可能導致受傷及火災的危險。
d. 當取下電池不用時，請遠離其他金屬物品，如: 迴紋針、銅板、鑰匙、指甲刀、螺絲批及其他會導電的物品，電池短路有可能導致爆炸或火災。
e.不正確的使用，也許會造成電池液外流，請勿碰觸！如果碰觸到身體，請即刻使用清水沖洗，如果觸到眼睛，請即刻就醫，電池液也許會導致發炎或灼傷。

6) 服務
電動工具的維修，請找專業合格的維修人員且使用正廠零件，這可以確保電動工具的安全。

操作手冊
電池充電：

⚠ **警告！在插頭插入電源前，電源線一定要先插入充電起子中。**
- 當購買電動工具前，並沒有充電。使用前須充電。然而，在出貨前工廠測試時，也許有殘留的電力，新的電動工具也許已儲藏一段時間，一開始也許不能100%充電，這是正常的！在充放電幾次之後，才能充滿電力。
- 第一次充電要充滿5個小時，之後充電3個小時。在充電時，室溫最好是在4˚C~40˚C之間。
- 充電前，請先將電源線插入電動工具的充電插槽，再將變壓器插入電源座。



⚠ **警告！在充電時的電動工具電力，剛開始時較慢，而後慢慢加快。**
- 充電時，不要超過5個小時，如果充電時間太長，將導致電池功能退化；有時過度充電，電池會過熱而造成液體溢出。
- 當充電時，電動工具須放置在堅固及平坦的地方，同時為了冷卻電動工[illegible]，需放在通風處良好的地方。
- 充[illegible]請[illegible]不可使[illegible]動工[illegible]可能[illegible]

PRODUCT SPECIFICATION

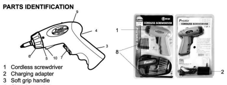
Description :	Specification
Torque settings :	22 Positions
Rated no load speed :	250rpm
Output torque :	>30kg.cm
Collet :	1/4" Hex with spring detent
Battery type :	DC 3.6V 1300mAH Li-Ion
Charging time :	3~5 Hrs
Screwdriver bits:	1/4"/L:50mm ⊖4,5, 6mm⊕#0 , #1, #2

PRODUCT FEATURES

1.High quality motor. Double speed gear (operating ratio 1:80). 250RPM. Smooth and quiet operation
2.Equipped with 3.6V, 1300mAH, rechargeable Li-Ion battery pack. Charging time : 3-5 hrs. Free running time : 60 min. (unload speed). Long life battery pack. Anti-pollution.
3.22 torque settings, maximum output torque up to 30kg.cm. Ideal for computer, electronic and home repair.
4.Switch for forward or reverse rotation. Easy to screw / unscrew.
5.Ergonomic design. Dual color soft grip is easy to handle
6.Battery power indication
7.LED light provides convenient work in dark.

PACK CONTENTS
- PT-1146 Cordless Screwdriver
- Main charging adapter
- 6pcs Screwdriver bits
- 1 handle guntype bag
- User's Manual

PARTS IDENTIFICATION



1 Cordless screwdriver
2 Charging adapter
3 Soft grip handle
4 Charging socket
5 Torque setting alignment marking
6 Torque setting ring
7 Operating switch
8 6 screwdriver bits + 1 handle guntype bag
9 LED power indicator
10 LED light

ELECTRICAL SAFETY
⚠ **WARNING!**
R[illegible]these electrical safety instructions carefully before connecting the charging adapter to [illegible]s supply. Do not leave your charging adapter connected to the mains supply when [illegible]se.

This screwdriver is supplied with a charging adapter which has been[illegible]ed[illegible]r us[illegible] Before plugging the charging adapter into the mains supply, make su[illegible]he[illegible]of[illegible] electricity supply is the same as that indicated on the rating plate on t[illegible] The charging adapter is a sealed unit. There are no user-serviceable p[illegible] require any electrical adjustments.

⚠ **WARNING!**
Do not attempt to open the charging adapter.
If the charging adapter is not suitable for your socket, becomes damaged, or fails to charge your battery, it must be replaced and disposed of in a safe and environmentally protective way. Always refer to qualified personnel.

▢ This symbol indicates that this charging adapter is a Class II appliance and does not require an earth connection.

SAFETY INSTRUCTIONS
⚠ **WARNING!**
Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all warnings listed below refers to your mains operated (corded)power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS
1) Work area
a. Keep work area clean and well lit. Cluttered and 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 adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
b. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
c. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase 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 personal injury.
b .Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
c .Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
d .Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
e .Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
f .Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
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 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.

⚠ [illegible]不[illegible]全[illegible]的充電器
[illegible]插頭[illegible]請任何調整或[illegible]，請[illegible]拆[illegible]電器[illegible]電，為了安全[illegible]請[illegible]床[illegible]棄[illegible]我們充[illegible]的充[illegible]於專[illegible]式[illegible]檢[illegible]期檢查插頭與電池是否有損壞，如有發現缺失或損害，請不[illegible]使用，如有任何問題，請洽本公司客服人員。

▢ **這標誌表示此插頭為第二級安全的器具，並不須合接地線的要求。**
安全指示

安全指示範圍

⚠ **警告！**請詳細閱讀所有的指示，如果不遵照下面所有的指示，也許會有觸電、火災或其他嚴重的傷害。下面凡是用”電動工具”是泛指所有帶電產品(插頭或電池)的總稱。

1) 工作範圍
a. 保持工作範圍的乾淨與整潔：混亂的環境將帶來事故。
b. 電動工具使用會產生火花，所以在使用電動工具，不要接近可燃物汽油、易燃物或髒亂的地方，避免導致火災。
c. 在使用電動工具時，請遠離小孩及旁觀者，避免因分心而導致作業失控。

2) 電力安全
a. 電動工具的插頭須與插座相符，不可以任意更改插頭形式；不要更改插頭形式，去符合插座，避免發生觸電的危險。
b. 電動工具的使用應避免在下雨或潮濕的地點下使用，如果水分進入電動工具內，會增加觸電的危險。
c. 不可使用電源線去拉、拔任何物品，電動工具的電源線，請遠離熱源、尖銳、 或移動中的物體，這樣會造成電源線的損壞或糾纏，更會增加觸電的危險。

3) 個人安全
a. 使用電動工具保持機警清醒狀態。當你受了酒精及藥物的影響，請不要使用電動工具。當操作電動工具時，即使短暫的疏忽失神，也許會令他人或自己受到傷害。
b. 操作時，需使用安全設備，請戴眼罩、安全配備；如：防塵面具、防滑鞋、堅固的安全帽及聽力的保護罩，可以有效減少個人傷害。
c. 避免意外的發生，應在插電時，確保電源開關在「關閉」的位置。
d. 電動工具打開電源前，請將任何調整的鑰匙或扳手移開，板手或是鑰匙碰到電動工具的旋轉處，也許會令他人或自己受到傷害。
e. 操作時，身體不可失去重心，請隨時保持身體的重心。身體重心平衡時，在非預期的狀況之下，才可以控制電動工具。
f. 適當的穿著，不要穿太鬆垮衣服、佩帶手飾；同時頭髮、衣服及手套遠離電動工具上轉動的部份，鬆垮衣服、佩戴首飾、長頭髮容易捲入轉動處。

4) 電動工具的使用及維護
a. 不要蠻力使用電動工具，正確的使用電動工具，將工作做的更好、更安全。
b. 如果電動工具，開關不能「開」或「關」，請不要使用電動工具。當開關損壞時，電動工具不能完全控制需儘速送修。
c. 電動工具做任何調整更換零件或是儲藏，請務必拔掉電源線；如此的安全預防，可以減少電動工具啓動的危險事故。

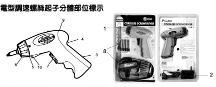
[illegible]格	[illegible]數
[illegible]置：	[illegible]檔
[illegible]度：	[illegible]0r[illegible]
[illegible]力：	[illegible]0k[illegible]
[illegible]	[illegible]4"[illegible]頭
工作電源：	DC3.6V 1300mA 鋰電充電電池
充電時間:：	3~5小時
起子批頭：	共6支:1/4英寸，六角形長50mm 一字螺絲批頭3支：4mm、5mm、6mm 十字螺絲批頭3支：#0，#1，#2

充電型調速螺絲起子組內容物：
- 充電型調速螺絲起子 一支
- 充電器 一個
- 起子批頭 六支
- 布套 一個
- 操作說明書 一本

★本產品的內容物，會因包裝方式的不同，內容有所改變！

產品特色
- 正轉/反轉 操作
- 22段扭力調整
- 防滑手把設計
- 6個起子頭
- 電池電量指示
- LED照明功能

充電型調速螺絲起子分體部位標示



1.充電型調速螺絲起子	2.充電器
3.防滑手把	4.充電插槽
5.扭力指標點	6.扭力調整環
7.正/反轉開關	8.泡殼內有：6支起子批頭和1個布套
9.電池電量指示(LED)	10. LED燈

電力安全

⚠ **警告！在使用插頭及電動起子前，請仔細閱讀電子安全說明。當不使用時，請將插頭自電源插座拔掉。**
- 此充電起子含有充電插頭適合在室內使用的。
- 請不要將充電起子及充電器暴露於雨中或潮濕中。
- 在充電器插頭插入電源前，請確定電壓與充電器的規格是相符合的。

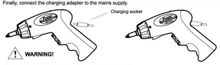
[illegible]the plu[illegible]r sou[illegible]g an[illegible]ng[illegible]essori[illegible]
[illegible]reach of child[illegible]do not[illegible]rs[illegible]amilia[illegible]e po[illegible]
[illegible]ese ins[illegible]ate th[illegible]wer to[illegible]n the[illegible]of untr[illegible]
[illegible]r t[illegible]ali[illegible]f m[illegible]arts,[illegible]ge of p[illegible]ny
[illegible]on tha[illegible]powe[illegible]n. If d[illegible]d, hav[illegible]ower to[illegible]ed
before use. Many accidents are caused by poorly maintained power tools.
g. Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.
5) Battery tool use and care
a. Ensure the switch is in the off position before inserting battery pack. Inserting the battery pack into power tools that have the switch on invites accidents.
b. 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.
c. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
d. When the battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
e. 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.

OPERATING INSTRUCTIONS

CHARGING THE BATTERY

⚠ **WARNING!**
Always connect the charging adapter to the screwdriver before plugging the charging adapter into the mains supply.

The screwdriver is not charged when purchased and it will need to be charged before operating. However some residual charge may be present in the battery from factory tests. New screwdrivers, or a screwdriver that has been stored for some time, may not initially accept a full charge. This is normal. It will charge fully after several charge and discharge cycles.
The first full charge of the screwdriver will take up to 5 hours. Subsequent full charges will take up to 3 hours. The screwdriver should be charged at temperatures between 4˚ and 40˚ C.
To charge the screwdriver, insert the charging adapter plug into the charging socket on the screwdriver. Finally, connect the charging adapter to the mains supply.



⚠ **WARNING!**
- Only recharge the screwdriver when it starts to run slowly.
- Do not leave the screwdriver on charge for more than 5 hours. Overcharging may cause the battery to deteriorate. In some cases overcharging can result in excess heat and gases being released.
- When charging, ensure that the screwdriver is located on a hard, flat surface. This will allow adequate air flow for cooling purposes.
- Do not operate the screwdriver while it is connected to the charger.

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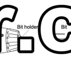
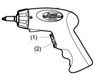
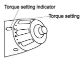


The operating switch allows you to change the direction of rotation of the the screwdriver.
- For clockwise rotation the top (1) of the operating switch should be pressed.
- For anticlockwise rotation the lower (2) of the operating switch should be pressed.
  To switch OFF, release the operating switch.



OPERATING INSTRUCTIONS
ADJUSTING THE TORQUE SETTING
Select the desired setting by rotating the torque setting ring to align with the torque setting indicator. The torque is at minimum when setting 1 is selected and at maximum when setting 22 is selected. The 22 settings are provided to vary the amount of torque necessary to seat screws of a given size in a particular material.
To select the correct torque setting, set the torque setting ring to setting 1. Fit and tighten the first screw. If the clutch slips before the screw is correctly seated, rotate the torque setting ring until the clutch slips when the head of the screw is flush with the surface of the material.
Torque setting indicator Torque setting ring.



BATTERY LEVEL INDICATOR
When operating the tool, LED indicates the battery level:
- Red shows no power
- Yellow shows lack of power
- Green shows full power

SCREWDRIVING

⚠ **WARNING!**
When driving screws into walls, floors etc., make sure that there are no electrical wires in the path of the screw.

Where possible drill a pilot hole before inserting a screw. This will act as a guide for the screw and prevent the material from splitting. Avoid overtightening screws. In the case of small screws, this could lead to the heads being twisted off. Use clockwise rotation to insert screws and anticlockwise rotation to remove them.

CLEANING AND MAINTENANCE

⚠ **WARNING!**
Do not press the On/Off switch when performing cleaning and maintenance procedures.

- After use, remove the screwdriver bit and tap the side of the screwdriver bit holder to remove any dust, or chippings etc.
- Clean the body of the screwdriver with a soft cloth.
- Keep the handle clean and free from oil and grease.
- Keep the adaptor clean and free from dust and grease.
- Worn or damaged parts must be replaced by qualified people.
- Refer to qualified people if internal maintenance is required.
- Always store the screwdriver and the adapter in the carrying case.

[illegible]操作說明書

[illegible]！這[illegible]Pro's[illegible]充電型調速螺絲起子組。
[illegible]您可[illegible]確的[illegible]此項工具，請在使用前，仔細閱讀操作使用說明書。請[illegible]意[illegible]個段[illegible]警語、標示及特別說明。

⚠ **警告**！這是一個警告標誌！當此標誌出現時，即表示有可能使人受傷，請確定已仔細閱讀，並了解說明內容。

⚠ **小心**！這是一個小心的標誌！當此標誌出現時，表示有可能損及產品，請確定已仔細閱讀，並了解說明內容。

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