



Pivot Driver CP360

Technical Data

Pivot Driver		CP360
Voltage	V _{DC}	4.8
No Load Speed	rpm	180
Max. Torque	Nm	4
Bit holder		1/4"(6.35mm)
Weight	kg	0.4
Battery		
Voltage	V	4.8
Battery type		NiMH
Ah rating		1.2
Charger		
Input Voltage	V _{AC}	230
Charging rate	A	0.13
Approx. charging time	h	8-10

Intended Use

Your Black & Decker Pivot Driver™ has been designed for screwdriving applications. These applications include driving screws in tight locations, such as close to edges and corners and against ceilings and floors, etc. This tool is intended for consumer use only.

General safety rules

⚠ 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 of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool. **SAVE THESE INSTRUCTIONS.**

- Work Area**
 - Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
 - Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks that may ignite the dust or fumes.
 - Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
- Electrical Safety**
 - Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
 - Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
 - Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
 - Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
 - When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- Personal Safety**
 - Stay alert. Watch what you are doing. Use common sense. Do not operate the tool when you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
 - Use safety equipment. Always wear eye protection.** Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. Contain long hair. Safety equipment such as dust mask, non-skid safety shoes, hardhat, heat-resistant apron or hearing protection used for appropriate conditions will reduce personal injuries.
 - 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.
 - 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.
 - Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jeweler or long hair can be caught in moving parts.
 - If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.**
 - Secure workpiece.** Use clamps or a vice to hold the workpiece. It is safer and it frees both hands to operate the tool.
- Power tool use and care**
 - Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
 - 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.
 - Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
 - Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
 - Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - 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 those intended could result in a hazardous situation.

- Battery tool use and care**
 - 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.
 - 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.
 - Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
 - When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
 - 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.
 - Service**
 - Have your power tool serviced by a qualified repairperson using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional Safety Instructions for screwdrivers

- Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord.**
- Use clamps or another practical way to secure and support the workpiece to a stable platform.**

Additional Safety Instructions for batteries and chargers

Batteries

- Never attempt to open for any reason.
- Do not expose the battery to water.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 4 °C and 40 °C.
- Charge only using the charger provided with the tool.
- When disposing of batteries, follow the instructions given in the section "Protecting the environment".
- Do not incinerate the battery.
- Do not attempt to charge damaged batteries.

Chargers

- Use your Black & Decker charger only to charge the battery in the tool with which it was supplied. Other batteries could burst, causing personal injury and damage.
- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose the charger to water.
- Do not open the charger.
- Do not probe the charger.

The following symbols are found on your charger:

The charger is intended for indoor use only.

Read the instruction manual before use.

Failsafe isolating transformer. The mains supply is electrically separated from the transformer output.

The charger automatically shuts off if the ambient temperature becomes too high. As a consequence the charger will be inoperable. The charger must be disconnected from the mains supply and taken to an authorised service centre for repair.

Electrical safety

- Your charger is double insulated; therefore no earth wire is required. Always check that the

mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.

⚠ Warning! Never attempt to replace the charger unit with a regular mains plug.

Overview

- On/off switch
- Forward/reverse slider
- LED light
- Bit holder
- Pivot release slider

Fig. B

- Charger
- Charging adapter

Assembly Fitting and Removing a screwdriver bit (Fig. C)

This tool uses screwdriver bits with a 1/4" (6.35 mm) hexagonal shank.

- To fit a bit, insert the bit shaft into the bit holder (4).
- To remove a bit, pull the bit shaft out of the bit holder (4).

Use

- Before first use, the battery must be charged for 14 hours.
- The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before. When charging the battery for the first time, or after a prolonged storage, it will only accept an 80% charge. After several charges and discharge cycles, the battery will attain full capacity.

Charging the Battery (Fig. B)

- Insert the connector (6) into the unit.
- Plug in the charger (7).
- Leave the tool connected to the charger for 8 - 10 hours.

The red light illuminates when the unit is on charge and will stay red as long as there is power to the charger. The red light will not go off to indicate a full charge.

The charger may hum and become warm while charging; this is normal and does not indicate a problem.

Generally, a charging time of 8 hours will enable the tool to operate at an effective power level for most tasks. However, further charging for up to 10 hours could significantly increase the run time, depending on the battery and charging conditions.

⚠ Warning! Do not charge the battery at ambient temperatures below 4 °C or above 40 °C.

Selecting the direction of rotation

For tightening screws, use forward (clockwise) rotation.

For loosening screws use reverse (counterclockwise) rotation.

- To select forward rotation, push the forward/reverse slider (2) to the left.
- To select reverse rotation, push the forward/reverse slider (2) to the right.
- To lock the tool, set the forward/reverse button into the centre position.

Screwdriving

- Select forward or reverse rotation using the forward/reverse slider (2).

- To switch the tool on, press the on/off switch switch (1).
- To switch the tool off, release the on/off switch (1).

Spindle lock

This tool is fitted with a spindle lock so that it can be used as a normal screwdriver. Use the tool this way to loosen very tight screws or to firmly tighten screws.

Rotating the gearbox (Fig. D, E & F)

The tool is fitted with a rotating gearbox to facilitate various screwdriving applications, such as reaching screws in tight corners and close to ceilings and floors. The bitholder can be set to a centre position and 3 off-centre positions: top, left and right. The gearbox and the spindle can be rotated to set the various bitholder positions.

- To rotate the gearbox (8) push the pivot release slider (5) forward and turn the gearbox 90° to the left or to the right (Fig. D & E). Note: The gearbox will only turn 90° left and right. Do not attempt to turn any further.
- To rotate the spindle (9) push the pivot release slider (5) backward and turn the spindle head 180° left or right (Fig. F).

⚠ Warning! Ensure the gearbox and spindle are locked into place before use.

LED light

The LED light is activated automatically when the trigger is depressed. The LED will illuminate when the trigger is partially depressed, before the unit begins running. The LED will also illuminate when the trigger is depressed and the forward/reverse slider (2) is in the locked off position (central position).

Hints for optimum use

- Let the tool work at its own pace. Do not overload.
- Always use the correct type and size of screwdriver bit.
- If screws are difficult to tighten, try applying a small amount of washing liquid or soap as a lubricant.
- Use the auto spindle lock to loosen very tight screws or to firmly tighten screws.
- Always hold the tool and screwdriver bit in a straight line with the screw.
- Always hold in wood, it is recommended to drill a pilot hole with a depth equal to the length of the screw. A pilot hole guides the screw and prevents splintering or distortion of the wood. For the optimum size of the pilot hole, refer to the table below.
- When screwing in hardwood, also drill a clearance hole with a depth equal to half the length of the screw. For the optimum size of the clearance hole, refer to the table below.

Screw size	Pilot hole ø		Clearance hole
	(softwood)	(hardwood)	
No. 6 (3.5 mm)	2.0 mm		4 mm
No. 8 (4 mm)	3.2 mm	3.5 mm	5.0 mm

Accessories

The performance of your tool depends on the accessory used. Black & Decker and Piranha accessories are engineered to high quality standards and designed to enhance the performance of your tool. By using these accessories you will get the very best from your tool. This tool uses screwdriver bits with a 1/4" (6.35 mm) hexagonal shank.

Maintenance

Your Black & Decker tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Your charger does not require any maintenance apart from regular cleaning.

⚠ Warning! Before performing any maintenance on the tool, remove the battery from the tool. Unplug the charger before cleaning it.

- Regularly clean the ventilation slots in your tool and charger using a soft brush or dry cloth.
- Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.

Protecting the environment

Separate collection. This product must not be disposed of with normal household waste. Should you find one day that your Black & Decker product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product. Black & Decker provides a facility for the collection and recycling of Black & Decker products once they have reached the end of their working life. To take advantage of this service please return your product to any authorised repair agent who will collect them on our behalf. You can check the location of your nearest authorised repair agent by contacting your local Black & Decker address indicated in this manual. Alternatively, a list of office at the authorised Black & Decker repair agents and full details of our after-sales service and contacts are available on the Internet at: www.2helpU.com

Batteries

Black & Decker batteries can be recharged many times. At the end of their useful life, discard batteries with due care for our environment:

- Run the battery down completely, then remove it from the tool.
- NiCd and NiMH batteries are recyclable. Take them to any authorised repair agent or a local recycling station.

EC declaration of conformity

Black & Decker declares that these products conform to:
98/37/EC, 89/336/EEC, 73/23/EEC, EN60335, EN60745, LPA (sound pressure) 63.5 dB(A), LWA (acoustic power) 74.5 dB(A), hand/arm weighted vibration 0.5 m/s² KpA (sound pressure uncertainty): 3 dB(A), KWA (acoustic power uncertainty) 3 dB(A)

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European design application numbers: 000641758 & 000684931

CP360 360° 可旋转起子 技术参数

360° 可旋转起子		CP360
电压	伏（直流）	4.8
空载速度	转/分	180
最大扭矩	牛·厘米	4
卡座	1/4" (6.35毫米)	
重量	千克	0.4
电池		
电压	伏	4.8
电池类型	镍氢	
额定安培小时		1.2
充电器		
输入电压	伏（交流）	230
充电率	安培	0.13
估计充电时间	小时	8-10

设计用途

本百得360°可旋转起子™的设计目的是拧螺丝。该产品还可以在狭小空间内使用，例如例如靠近边沿、角落、靠天花板或地板等。本工具仅供消费者使用。

安全总则

⚠警告! 请仔细阅读本手册的全部指令。如未能遵守下列所有指令，则可能会导致电击、火灾和/或严重的人身伤害。下文所有警告中的“电动工具”一词指您的电网电源供电（有绳）电动工具或充电式（无绳）电动工具。

请保管好本手册。

1. 工作区安全

- 保持工作区洁净和明亮。工作区或操作台如杂乱或昏暗，可能会引发事故。
- 切勿在有易燃液体、气体或灰尘的爆炸性环境中使用电动工具作业。电动工具所产生的火花可能会点燃这些灰尘和气体。
- 在使用电动工具作业时，请勿让儿童和旁观者在工作区附近逗留。分心可能导致工具的失控。

2. 电气安全

- 电动工具的插头必须与电源插座相匹配。请勿对插头做任何形式的修改。对于接地电动工具，请勿使用转接插头。未经改装插头并使用匹配的插座会降低电击的风险。
- 禁止身体与接地的表面（例如管道、暖气片、厨具、冰箱等）接触。如果身体接地，遭受电击的风险会增加。
- 请勿将电动工具暴露在雨中或潮湿环境中。雨水进入电动工具将增加触电危险。
- 切勿滥用电源线。坚决禁止用电源线提拉电动工具或用电源线从电源插座上直接拖拽下电动工具插头。电源线必须远离高温、油、锋利物品或运动部件。电源线的损坏或缠绕会增加触电的风险。
- 如果在室外使用电动工具作业，请使用适合于室外使用的延长电线。采用适合于室外使用的电缆可以降低触电风险。

3. 人身安全

- 在操作电动工具时，请保持高度警惕，专注您所做的事情并运用您的经验常识。在疲劳时，或者如在药品、酒精、药物治疗的影响下，请勿使用本电动工具。在操作电动工具时，稍不留神就可能会导致严重的人身伤害。
 - 使用安全防护装置。必须时刻佩戴护目装置。日常使用的眼镜仅有防撞镜片，并非安全眼镜。束起长发。在适当情况下，使用诸如防尘面罩、防滑安全鞋、安全帽、防热围裙或听力保护装置之类的安全装置可降低人身伤害的风险。
 - 避免意外启动。必须确保在插头插入之前开关处于关闭状态。手指放在开关上携带电动工具，或将开关处于开启状态的电动工具插在电源上，可能会引发事故
 - 在启动电动工具之前必须先取下夹头钥匙或扳手。如果扳手或夹头钥匙未从电动工具的转动部件上拔下，可能会导致人身伤害。
 - 手脚不要伸得过长。任何时刻都必须保持平衡，有稳定的立足点。这样能让您在意外情况下可以更好的控制电动工具。
 - 合理着装。请勿穿着宽松服装或者佩戴首饰。必须确保您的头发、衣服和手套远离转动部件。宽松服装，首饰或长发可能会被卷入转动部件。
 - 如果电动工具配备了装置来连接吸尘和集尘设施，应确认这些装置都已连接好并能恰当使用。使用这些装置可以减少有危害性的粉尘。
- 固定好工件。使用夹钳或老虎钳固定工件。这样更为安全，并且可以空出双手来操作工具。

4. 电动工具的使用和维护

- 请勿勉强使用不合适的电动工具。请根据您的应用场合选择恰当的电动工具。恰当的电动工具能够在设计的工作情形下，更好更安全地完成作业。
- 如果工具的开关不能启动电动工具时，请勿使用电动工具。无论什么电动工具，如果开关无法控制，那都是相当危险的，必须进行修理。
- 在进行调整、更换附件或存放电动工具之前，请将电动工具的插头从电源插座中拔出。这种预防性安全措施可以降低电动工具意外启动的风险。
- 闲置的电动工具，必须放置在儿童接触不到的地方，而且禁止不熟悉该电动工具或不熟悉其用法说明的人使用该电动工具。未经过培训的使用者使用工具是很危险的。
- 必须小心维护电动工具。检查转动部件是否卡住、有无对准，部件是否有破损情况以及是否有可能会影响电动工具操作性能的其它情况存在。如果工具有损坏情况，请在使用之前先将工具修理好。许多事故都是由于工具维护不当所造成的。
- 保持切割刀具锋利干净。经过妥善维护、具有锋利切割边的刀具被卡住的可能性更小，并且更容易被控制。
- 请按照本用法说明以及电动工具特殊型号的特定要求，并结合考虑工作环境及所需作业情况来使用电动工具、附件和工具刀头等。使用电动工具进行不适合的作业，可能会导致危险情况发生。

5. 电池工具的使用和维护

- 在装入电池组之前，请确保开关处于断开位置。将电池组装入开关处于接通状态的电动工具中会引发事故。
- 只能使用制造商指定的充电器来充电。适合某一型号电池组的充电器并不一定适合其它型号的电池。如果如强行使用其它电池组，可能引发火灾。
- 电动工具只能使用明确规定的电池组。使用其它电池组可能会造成损伤和火灾。
- 如果电池组未处于使用状态，那么请将其远离于诸如回形针、硬币、钥匙、钉子、螺钉之类的或其它可将一个电极与另一个电极相连的金属物品。蓄电池电极短路可导致灼伤或火灾。
- 在电池被用过的情况下，可能会有液体从电池中喷射出来，切勿与其接触。如发生意外接触情况，请用清水冲洗。如液体溅入眼睛，还要另外寻求医疗帮助。电池中喷射出的液体可能引起皮肤刺激或灼伤。

6. 维护

- 本电动工具必须由合资格的维护人员采用相同的替换部件进行维护。这样会确保电动工具的安全性能够得到保障。

螺丝起子的附加安全指引

- 当紧固件可能接触到暗藏的电线或其自身引线时，请仅通过绝缘的把手表面来操作工具。
- 请使用夹钳或其它切实可行的方法来固定和支撑工件，将其固定到稳定的工作台上。

针对电池组和充电器的附加安全指引

电池

- 禁止以任何理由试图打开电池。
- 禁止与水接触。
- 禁止存放在温度超过40 的地点。
- 仅在4 到40 的环境温度范围内充电。
- 仅使用工具随机配备的充电器。
- 丢弃电池时，请遵守“保护环境”章节中的规定。
- 禁止焚烧电池。
- 禁止试图给损坏的电池充电。

充电器

- 只能使用您的百得牌充电器给随机供应的电池充电。否则，电池会爆炸或造成人身伤害与损坏。
- 严禁给非充电电池充电。
- 立即更换有缺陷的导线。
- 禁止暴露在水中。
- 请勿打开充电器。
- 请勿使用探针等查探充电器。

充电器上配有以下标志：

本充电器仅在室内使用。

使用前请阅读用法说明书。

保安型绝缘变压器。主电网与变压器输出的电气系统是隔离的。

环境温度过高时，充电器自动切断。其结果是充电器无法使用。必须从主电网上断开充电器并送到授权服务中心维修。

