電動起子控制器操作手冊

OPERATION AND MAINTENANCE MANUAL

■ SKP-BE32HL

(In: AC 100~240V Out: DC 24V / 32V)

奇力速工業股份有限公司

KILEWS INDUSTRIAL CO., LTD.

http://www.kilews.com.tw

Y2F058-1-003

WARNING

Important safety information enclosed.

Read all these instructions before placing tool in service or operation this tool and save these instructions. It is the responsibility of the employer to place the information in this manual into the hands of the operator. Failure to observe the following warnings could result in injury. When using electric tools, Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

1. Important Safety Instructions

2. Operations Cautions

3. Grounding Instructions

4. Installation Instructions

5. Specifications

6. Servicing

Important Safety Instructions

WARNING! Read all instructions Failure to follow all instructions listed below may result in electric shock fire and/or serious injure. The term “power tool” in all of the warning listed below refer to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) Electrical Safety

a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.

b) **Do not operate power tools in explosive atmosphere, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust of 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 any adapter plugs with earthed (grounded) power tools**. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) **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.

c) **Don’t expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d) **Do not abuse the cord. Never use the cord to carry, 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.

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of cord suitable for outdoor use reduces 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 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 serious 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 keys or wrench before turning the power tool on.** A wrench or a key that is 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 jewelry. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

g) **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.

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 for which it was designed.

b) **Do not use power tool if switch does not turn it on or off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) **Store idle power tools out of 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.

e) **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 cause by poorly maintained power tools.

f) **Keep cutting tools sharp and clean**, properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **Use the power tools, accessories and tool bits ect., 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) SERVICE

a) **Have your power tool serviced by qualified repair person using only identical replacement parts**, this will ensure that the safety of the power tool is maintained.

Additional information shall be provided.

a) Instruction for putting into use.
   1. Setting-up or fixing power tool in a stable position as appropriate for power tools which can be mounted on a support.
   2. Assembly
   3. Connection to power supply, cabling, fusing, socket type and earthing requirements.
   4. Illustrated description of functions.
   5. Limitations on ambient conditions.
   6. List of contents.

b) Operating Instructions.
   1. Setting and testing.
   2. Tool changing.
   3. Clamping of work.
   4. Limits on size of work piece.
   5. General instructions for use.

c) Maintenance and servicing.
   1. Regular cleaning, maintenance, and lubrication.
   2. Servicing by manufacture or agent, list of addresses.
   3. List of user-replaceable parts.
   4. Special tools which may be required.

Operations Cautions

1. Please read the operating manual thoroughly and comply with safety regulation to operate this Multi-Function Controller.
2. Please grasp the plug of power cord while plugging in or out the plugs of connecting cord of Electric Screwdriver and power cord.
3. Please fix the power controller to avoid any danger of pulling and dragging the power cord.
4. Do not near oil, chemical materials or heated objects, also please be alert not to scratch the power cord by sharp object.
5. This type of Controller can only be applied to Kilews Electric Screwdriver with Counter. Do not use Electric Screwdriver Controller on other types of machinery.
6. In case of the Controller is overheated or overloaded with maximum current rating of fuse, the high-speed fuse will be melted down and cut off the power. If the Controller continues to jump off or has an abnormal switching reaction, please stop the operation immediately and send back the Controller for repair.
7. When Electric Screwdriver is running, if slides Forward/Reverse Switch instantly, device will generate the protection program to force Electric Screwdriver stop.
8. Please do not disassemble Electric Screwdriver casually and try to repair it by self.
9. When Controller is not in use, please turn the main power switch OFF and unplug the power.
10. The electric frequency will be lower when the voltage is adjusted as Lo or below 32V, so the torque of the electric screwdrivers can't be worked out except below scale of 4.

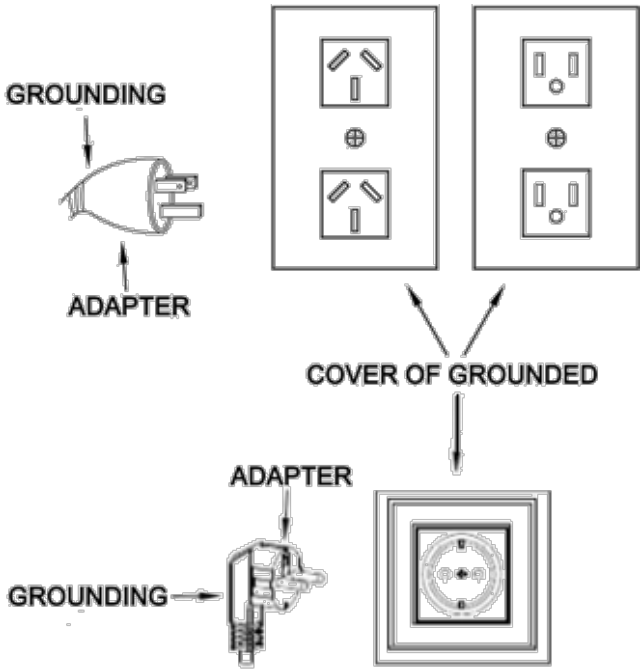
WARNING !

DO NOT OPERATE THIS TOOL WITHOUT PROTECTIVE EARTH CONNECTED

Grounding Instructions

The tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

Green and yellow----- Earth
Blue ------ Neutral
Brown ------ Live



Installation Instructions

1. Use the controller voltage recommended in the specification of this manual.
2. When using a commercial power supply be sure to set up circuit and safety breakers. You must also properly ground the mechanisms.
3. The temperature and humidity should be kept at appropriate levels.
4. Do not set up the power supply in a room that has poor ventilation and where it may be exposed to dust and metallic flakes.
5. Do not put heavy object on top of power supply or pile thing on it.
6. Attach the power supply securely to a flat, stable surface. If the power supply is put a high place, take special care to ascertain that there is no danger of it falling.
7. Keep bystanders away. Do not permit unauthorized personnel to operate this controller.
8. Do not set up the power supply near high voltage machinery or in an excessively noisy environment.
9. Avoid setting up or storing the power supply in wet or oily environments or where it might be exposed to corrosive or flammable gases.
10. We emphasize that the power supply should be placed in stable, fixed location.

SAVE THESE INSTRUCTION

NOTICE

The use of other than genuine KILEWS replacement parts may result in decreased controller performance and increased maintenance and may invalidate all warranties.

Specifications

Model	SKP-BE32HL
Input	AC 100~240V 50/60Hz 1.2A
Output	DC 24V / 32V ,1A (3A Peak)
Duty Cycle	1s ON / 3s OFF
Outside Dimensions (mm)	200 * 80 * 66 (mm)
Weight (g)	460 (main body)
Suitable Model	SKD-BN500LF/PF Series SKD-BE500LF/ PF Series SKD-BNK200 Series SKD-BNK500 Series

Servicing

Maintenance and Inspection:

1. The controller must be operated in top condition, one day working hour must be not more than eight hours.
2. Please note don't let the controller get over heated, every minute use 10~15 screws to operate.
3. The frequency use of this electric screwdriver is over eight hours a day, still it needs periodically testing and treatment. Every 5-6 months.

CAUTION

1. The use of other than genuine KILEWS replacement parts may Result in decreased tool performance and increased maintenance and may invalidate all warranties.
2. All repairs and maintenance of this tool and its word must be performed by an authorized service center.
3. KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.
4. Repairs should be made only by authorized, trained personnel. Consult your nearest KILEWS authorized service center.
5. It is the responsibility of the employer to place the information in this manual into the hands of the operator.
6. Please refer to Kilews website http://www.kilews.com.tw for the detail component list.

DO NOT ATTEMPT TO REPAIR THIS EQUIPMENT

All repairs and maintenance of the Controller and its cord must be performed by authorized service center.

CAUTION

SAVE THESE INSTRUCTIONS
DO NOT DESTROY

操作前請閱讀全部說明
（內附零件分解圖）

警　告

為了安全起見，在使用電動螺絲起子控制器前請詳閱電動螺絲起子控制器操作說明書，且務必依照說明書指示操作，並注意所有的警示

重要安全說明事項

1. 使用電動螺絲起子控制器說明書規定的電壓。
2. 使用電源時請確定電流回路與安全開關裝置，並同時將地線接妥。
3. 電動螺絲起子控制器勿置重物或堆積物品，且保持在適當的溫度與濕度狀態下工作。
4. 勿將電動螺絲起子控制器放在通風不良之室內，或暴露在塵埃和金屬屑中
5. 勿將電動螺絲起子控制器放在高溫潮濕的環境或易燃氣體的地方。
6. 勿將電動螺絲起子控制器裝置在高處，應放于安全、平穩、固定的位置，以防止掉落的危險。
7. 不可用電源線拉提電動螺絲起子控制器，或將電源線從插座上猛拉開。

注　意

1、 此控制器請搭配整組的專用電動起子使用。

2、 此控制器請配合 KILEWS　DC 低壓電動起子使用，控制器若搭配非 KILEWS 起子使用，以及使用非 KILEWS 原廠的零配件維修，而造成控制器發生故障或品質不良，導致一切保證失效本廠恕不負責。

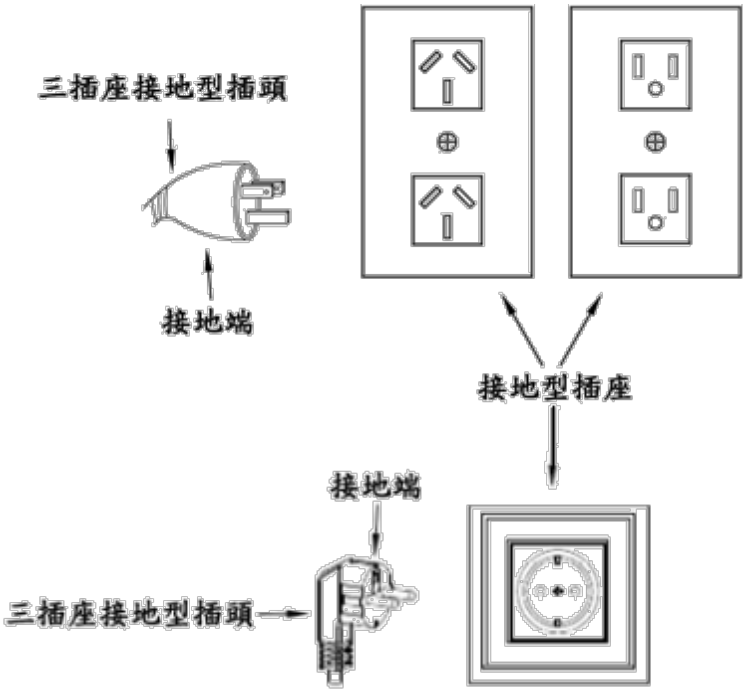
3、 詳細零組件表，可至 http://www.kilews.com.tw 參閱。

操　作　須　知

1、當插入或拔開起子連接線和電源線之插頭時，需抓緊電纜線之插頭部分。
2、請勿用力拉扯電纜線，或使其靠近油 、化學物質或熱的物體，同時也注意不要讓電纜線在工作中刮磨到銳利的物品。
3、此型控制器，只能專門供 KILEWS 電動起子使用，勿將電動螺絲起子控制器使用於其他機械。
4、假如控制器過熱，或負載使用電流超過保險絲最大額定電流時，快速型保險絲會自動熔斷，切斷電源，持續跳脫或開關動作不正常時，請立即停止操作，並將電動螺絲起子控制器送回修理。
5、請勿任意拆卸電動螺絲起子控制器嘗試自行修復。
6、不使用時將主要電源開關 ”OFF”，並且拔掉電源插頭。
7、當 SKP 系列的輸出電壓調整至 Lo 的位置或小於 32V 的位置時，電動螺絲起子的扭力設定請低於刻度　4 位置以下使用。

接 地 說 明

電動螺絲起子控制器使用時應接地以免操作者觸電。本控制器配有三條導線及三腳接地型插頭以適合接地型插座用，插座本身的接地線必須確實和電源設備地線相連接才有接地作用。電線黃綠色的導線是接地線。千萬不可將此黃綠色線接在通電的接頭上，此控制器內的接地線除了有漏電安全接地外，還可將起子工作時所產生的 ESD 靜電靠著接地線來接地消除。

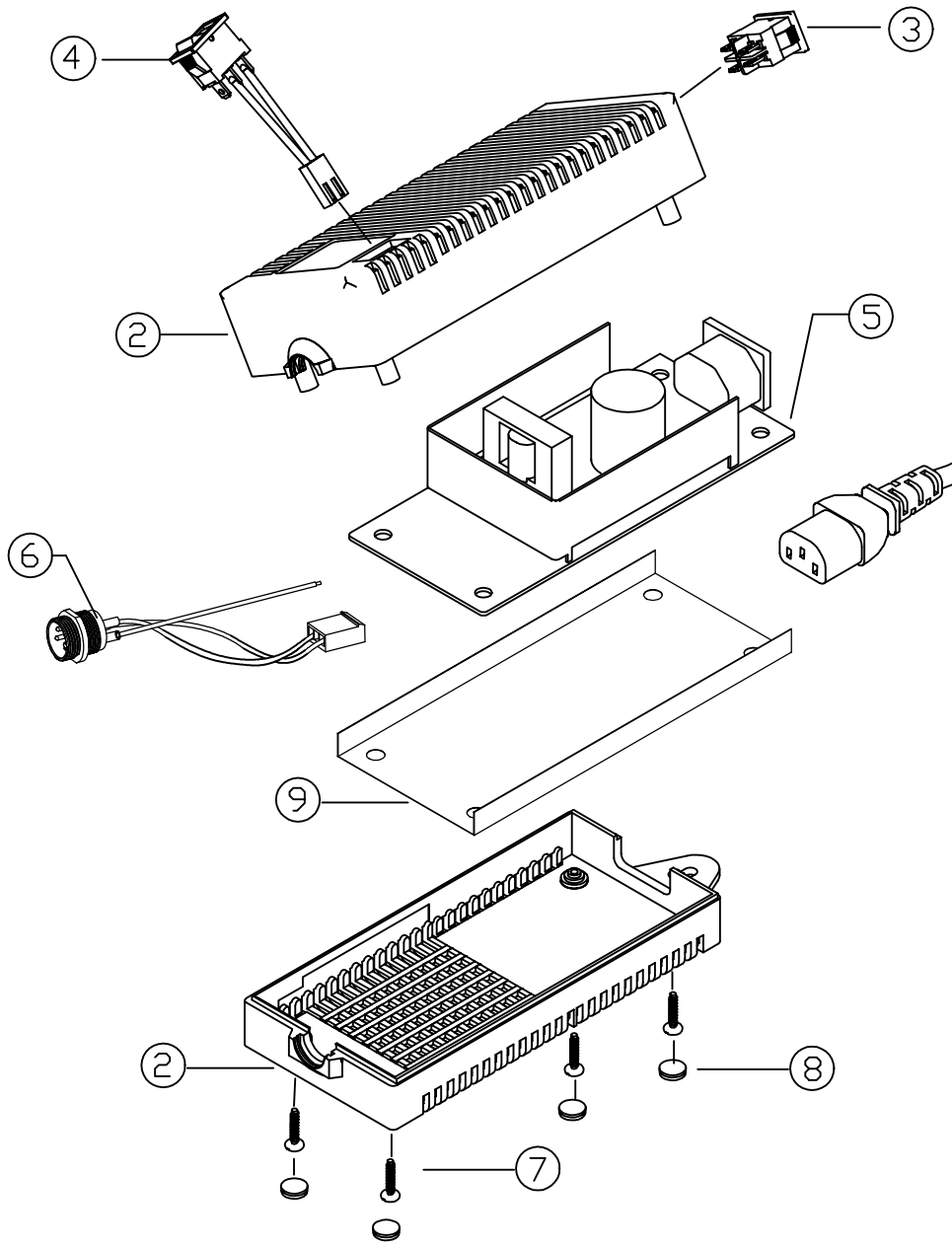


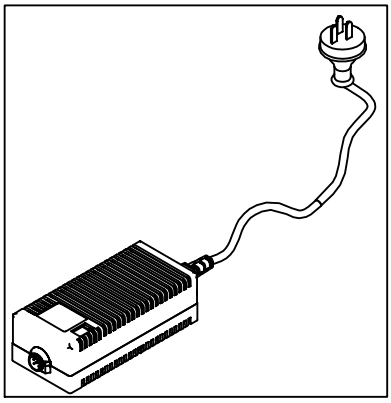
主 要 技 術 參 數

型號	SKP-BE32HL
輸入電壓	AC 100~240V 50/60Hz 1.2A
輸出電壓	DC 24V/ 32V ,1A (3A Peak)
負載周期	1s ON / 3s OFF
外形尺寸 (mm)	200 * 80 * 66 (mm)
重量 (Kg)	460 (main body)
適用之電動螺絲起子	SKD-BN500LF/ PF 系列 SKD-BE500LF/PF 系列 SKD-BNK200 系列 SKD-BNK500 系列

POWER CONTROLLER

電源控制器





Model:
SKP-BE32HL

NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AA50002	CORD USA-PLUG	美規電腦插頭電源線	1
	AA50002-1	CORD AUS-PLUG	澳規電腦插頭電源線	1
	AA50002-2	CORD EUO-PLUG	歐規電腦插頭電源線	1
	AA50002-3	CORD BRI-PLUG	英規電腦插頭電源線	1
	AA50002-6	CORD INDIA-PLUG	印規電腦插頭電源線	1
2	P11009-8	HOUSING HI/LO	外殼 HI/LO	1
3	P11401-19	POWER SWITCH	電源開關	1
4	HC10003	HI/LO SWITCH	HI/LO開關	1
5	EG50101-33	PCB-POWER SUPPIY	電源機板	1
6	PZ50165-7	CONNECTOR ASS'Y 6PIN	6芯插座半成品	1
7	CH20102	SCREW	外殼螺絲	4
8	CH20103	RUBBER SHIM	腳墊	4
9	W50103-1	INSULATING WASHER	絕緣墊片	1