



|                                                                                                                                                                                |                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 说明书材质要求：105g 有光铜版纸                                                                                                                                                             | 说明书成品尺寸：105*143mm                                                                                                                                             |
| 第一：专色用6级防晒油墨+CMYK油墨要求：<br>1.PANTONE137C专色油墨(专色用6级防晒油墨)：<br>如果自己配色，油墨配比为：酒联中黄(防晒)2000g<br>酒联金红(防晒)225g<br>2.C色油墨：酒联天蓝墨<br>3.M色油墨：酒联金红墨<br>4.Y色油墨：pantone123C专色油墨<br>5.K色油墨：酒联黑墨 | 第二：特别注意：<br>1.印刷时看样请参考我司提供的实物样品颜色。不得偏色<br>2.137C的专色不得参考C=0,M=35,Y=90,K=0对应的四色<br>色谱颜色来看样印刷<br><div><div></div> Pantone 137C<br/><div></div> Black（两色印刷）</div> |
| 折叠方式：风琴折 ( <sup>20P以下</sup> 角风每折)<br>特殊情况：16P/20P：风琴折 + 对折                                                                                                                     | 备注：                                                                                                                                                           |

特别注意：此页内容不印刷

风琴折 + 对折 页面顺序

16P 页面顺序

|    |    |    |    |
|----|----|----|----|
| 9  | 10 | 11 | 封面 |
| 12 | 13 | 14 | 封底 |

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

20P 页面顺序

|    |    |    |    |    |
|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 封面 |
| 15 | 16 | 17 | 18 | 封底 |

|   |   |   |   |    |
|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5  |
| 6 | 7 | 8 | 9 | 10 |

|      |          |           |     |             |            |     |          |            |     |
|------|----------|-----------|-----|-------------|------------|-----|----------|------------|-----|
| 更改记录 | 1. 新制作   |           |     | 1. 更新公司名和地址 |            |     | 更新品名     |            |     |
|      | 0423.V01 | 2023.4.28 | GWY | 1223.V02    | 2023.12.26 | QQY | 0724.V03 | 2024.07.16 | LYD |
|      | 版本号      | 日期        | 设计师 | 版本号         | 日期         | 设计师 | 版本号      | 日期         | 设计师 |

# INGCO

[www.ingco.com](http://www.ingco.com)

**PRODUCT  
MANUAL**

## CORDLESS SCREWDRIVER



**CSDLI0442 CSDLI0442xy**  
**x(blank, 1,2,3,4,5,6,7,8,9,E,S,A,M)**  
**y(blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)**





**GENERAL POWER TOOL SAFETY WARNINGS**

**⚠ WARNING** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

**Save all warnings and instructions for future reference.**

*The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

**1) Work area safety**

- a) **Keep work area clean and well lit.** *Cluttered or 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 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) **Do not 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 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.*
- e) **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.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD 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 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 serious personal injury.*
- b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising 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 and clothing away from moving parts.** *Loose clothes, jewellery 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 dust collection can reduce dust-related hazards.*
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

### 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 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.*
- c) **Disconnect the plug from the power source and/or remove the battery**

**pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

- d) **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.*
- e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused 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 tool, accessories and tool bits etc. in accordance with these instructions, 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.*
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

## **5) Battery tool use and care**

- a) **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.*
- b) **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
- c) **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.*
- d) **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.*

- e) **Do not use a battery pack or tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*
- f) **Do not expose a battery pack or tool to fire or excessive temperature.** *Exposure to fire or temperature above 130 °C may cause explosion.*
- g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

## **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.*
- b) **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers*

## BATTERY TOOL SAFETY WARNINGS

**Save these instructions.**

**Caution: only use genuine original batteries.**

Use of non-genuine batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury, and damage. It will also void the warranty for the tool and charger and dark areas invite accidents.

### Battery tool use and care

- a) **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.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **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.
- d) **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.
- e) **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- f) **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130°C may cause explosion.
- g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

### Tips for maintaining maximum battery life

1. **Charge the battery cartridge before completely discharged.** Always stop tool operation and charge the battery cartridge when you notice less tool power.

2. **Never recharge a fully charged battery cartridge.** Overcharging shortens the battery service life.
3. **Charge the battery cartridge with room temperature at 10°C-40°C (50°F-104°F).** Let a hot battery cartridge cool down before charging it.
4. **Charge the battery cartridge if you do not use it for a long period (more than six months).**

### **Important safety instructions for battery cartridge**

1. **Before using battery cartridge, read all instructions and cautionary markings on battery charger, battery, and) product using battery.**
2. **Do not disassemble battery cartridge.**
3. **If operating time has become excessively shorter, stop operating immediately.** It may result in a risk of overheating, possible burns and even an explosion.
4. **If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away.** It may result in loss of your eyesight.
5. **Do not short the battery cartridge:**
  - a) Do not touch the terminals with any conductive material.
  - b) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - c) Do not expose battery cartridge to water or rain.
  - d) A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. **Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).**
7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out.** The battery cartridge can explode in a fire.
8. **Be careful not to drop or strike battery.**
9. **Do not use a damaged battery.**
10. **Follow your local regulations relating to disposal of battery.**

## THE SYMBOLS IN INSTRUCTION MANUAL

|                                                                                     |                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Double insulated for additional protection                                                                                                                                            |
|    | Read the instruction manual before using.                                                                                                                                             |
|    | CE conformity.                                                                                                                                                                        |
|    | Safety alert.<br>Please only use the accessories supported by the manufacturer.                                                                                                       |
|    | Wear safety glasses, hearing protection and dust mask.                                                                                                                                |
|    | Waste electrical products should not be disposed of with household waste.<br>Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. |
|    | Charging the battery only below 40°C                                                                                                                                                  |
|   | Always recycle batteries.                                                                                                                                                             |
|  | Do not destroy battery by fire.                                                                                                                                                       |
|  | Do not expose battery to water                                                                                                                                                        |

## ADDITIONAL SAFETY WARNING

Lithium-Ion cordless screwdriver safety warnings

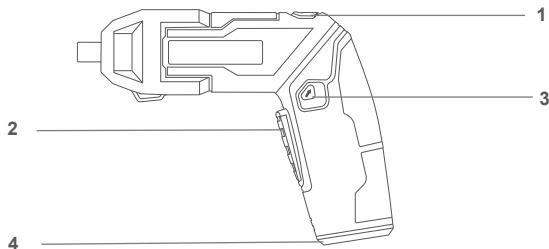
1. Keep work area clean and well lit
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
3. Keep children and bystanders away while operating a power tool.
4. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.
5. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.
6. Do not expose power tools to rain or wet conditions.
7. 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.
8. Use personal protective equipment. Always wear eye protection.
9. Prevent unintentional starting. Ensure the switch is in the off- position before connecting to power source and/or battery pack, picking up or carrying the tool.
10. Do not force the power tool. Use the correct power tool for your application.
11. Do not use the power tool if the switch does not turn it on and off.
12. Use power tools only with specifically designated battery packs.
13. 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.

## INTENDED USE

The cordless screwdriver is designed for tightening and undoing screws.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user and not the manufacturer will be liable for any damage or injuries caused as a result of this.

## SPECIFICATIONS



- |                                      |                                   |
|--------------------------------------|-----------------------------------|
| 1. Release button                    | 3. Forward/Reverse trigger switch |
| 2. Motion control activation trigger | 4. Charging port(type-c)          |

### Accessories:

- 16 Pcs 25mm Cr-V bits+holder
- 2 Pcs 50mm Cr-V bits+holder
- 1 Pcs connector

### Technical specifications

| Model No.     | CSDLI0442 CSDLI0442xy<br>x(blank, 1,2,3,4,5,6,7,8,9, E, S,A,M)<br>y(blank, -1,-2,-3,-4,-5,-6,-7,-8,-9, E, S,A,M) |
|---------------|------------------------------------------------------------------------------------------------------------------|
| Voltage       | 4V                                                                                                               |
| Hex shank     | 1/4"                                                                                                             |
| No-load speed | 240rpm                                                                                                           |
| Max torque    | 4N.m                                                                                                             |

## OPERATION

Your screwdriver uses gyroscopic technology to sense your hand motion. To operate, press in the motion control activation trigger and turn your hand in the direction that you want the screwdriver to operate.

### SETTING INITIAL STARTING POINT

1. Grasp the screwdriver.
2. Press and hold in the motion control activation trigger.
3. To reset initial starting point first release the motion control activation trigger. Move tool to new position, then press and hold in the motion control activation trigger.

### OPERATING IN FORWARD DIRECTION

1. Grasp the screwdriver.
2. Engage head of fastener with screwdriver accessory on work piece. Follow instructions for setting initial starting point.
3. Rotate your hand to the right and the screwdriver will activate in the forward direction.

## MAINTENANCE&MALFUNCTIONS

### Possible malfunctions and methods of their eliminations

| Malfunction                                                                                   | Probable causes                                                                                                                                                                                                                  | Actions                                                                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| When the machine is turned on, the electric motor does not work.                              | <ul style="list-style-type: none"> <li>• Switch failure</li> <li>• The power cord or wiring is broken, power cord plug malfunction;</li> <li>• No brush contact with the collector;</li> <li>• Wear/damage of brushes</li> </ul> | Disconnect the machine from the mains and contact a qualified specialist.                                              |
| Formation of a circular fire on the collector                                                 | <ul style="list-style-type: none"> <li>• Brush wear/damage of the brush holder;</li> <li>• Malfunction in the armature coil</li> </ul>                                                                                           | Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own. |
| When working, smoke or the smell of burning insulation appears from the ventilation openings. | <ul style="list-style-type: none"> <li>• Malfunction in the electric motor coil;</li> <li>• Malfunction of the electrical part of the tool.</li> </ul>                                                                           |                                                                                                                        |
| Increased noise in the gearbox                                                                | <ul style="list-style-type: none"> <li>• Wear/breakage of gears or bearings</li> </ul>                                                                                                                                           |                                                                                                                        |
| When the machine is turned on, the spindle does not rotate                                    | <ul style="list-style-type: none"> <li>• Gearbox failure.</li> </ul>                                                                                                                                                             |                                                                                                                        |

### Critical state criteria

| Critical state criteria                                                                | Probable causes              | Actions                                                                                                                |
|----------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Cracks on the surfaces of bearing and housing parts                                    | Fatigue deformation of metal | Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own. |
| The power cord or plug is damaged                                                      | Overload or breakage         |                                                                                                                        |
| Excessive wear or damage to the motor or reductor mechanism, or a combination of signs | Fatigue deformation of metal |                                                                                                                        |

### Critical state criteria

| List of critical failures                                                                                                           | Actions                                           |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Electric motor sparking                                                                                                             | It is necessary to contact a qualified specialist |
| The appearance of extraneous noise                                                                                                  | It is necessary to contact a qualified specialist |
| If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist |                                                   |







MADE IN CHINA 0724.V03



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