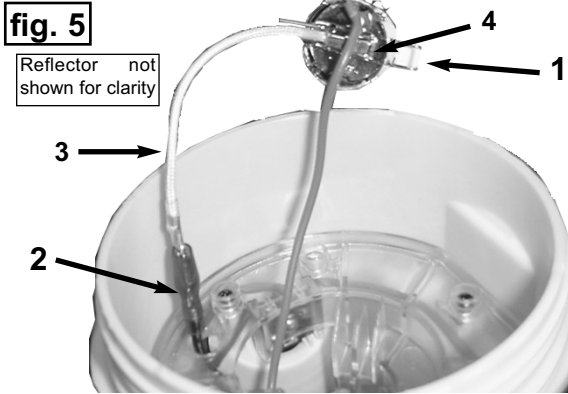


### 3. MAINTENANCE

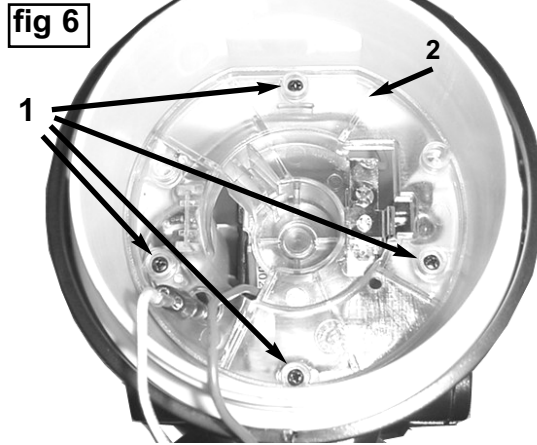
#### 3.1. CHANGING THE LANTERN BULB

- ❑ **WARNING!** Ensure the lantern is turned off and the lens has cooled prior to changing the bulb.
    1. Undo the lantern hood (fig.1.H) by turning it anti-clockwise. Note that the hood and reflector form an assembly on model AK436.
    2. Carefully lift the reflector assembly revealing the spring clip (fig 5.1.) and the cable connector (fig. 5.2.).
    3. Disconnect cable (fig.5.3.).
    4. Remove the spring clip (fig.5.1.).
    5. Pull bulb (fig.5.4) outward from the reflector.
    6. Hold the new bulb (See Parts List for number) with a lint free cloth, (do not handle the bulb), and install by reversing the above procedure.
- Note that the reflector assembly on AK435 will only fit on the body in one position. **DO NOT** force, rotate until it drops into place.



#### 3.2. CHANGING THE BATTERY

- ❑ **WARNING!** Ensure you read, understand and apply safety instructions relating to the battery before changing.
    1. Undo the lantern hood (fig.1.H) by turning it anti-clockwise. Note that the hood and reflector form an assembly on model AK436.
    2. Carefully lift the reflector assembly revealing the four battery cover retaining screws (fig.6.1.).
    3. Undo the four retaining screws.
    4. Carefully raise the battery cover (fig.6.2.).
    5. Disconnect the battery terminal wires.
  - ❑ **WARNING!** Beware of causing a short circuit.
  - 6. Carefully remove the battery.
  - 7. Replace with a genuine Sealey battery and install by reversing the above procedure.
- Notes: a) Take care not to pinch or cross-connect any wires.  
 b) When replacing battery cover make sure that switch contact is on the side of the switch cam and NOT resting on the top, before replacing screws.  
 c) The reflector assembly on AK435 will only fit on the body in one position. **DO NOT** force, rotate until it drops into place.
8. Dispose of old battery in accordance with local authority lead-acid battery regulations. **DO NOT** dispose of with regular refuse.




PARTS LIST FOR: AK435 and AK436 RECHARGEABLE LANTERNS			
AK435		AK436	
Part No	Description	Part No	Description
ML1/B	Bulb	AK436/B	Bulb
AK435/C	Mains Charger	AK435/C	Mains Charger
AK435/CC	Car Charger	AK435/CC	Car Charger
AK435/B	Handle Bracket	AK435/H	Handle
AK435/H	Handle	AK435/BAT	Battery
AK435/BAT	Battery		

Version 1  
Issue Date 070202

## CE Declaration of Conformity

We, the sole importer into the UK, declare that the products listed here are in conformity with the following standards and directives. The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

<b>Rechargeable Lanterns</b> <b>Models AK435, AK436</b> 73/23/EEC Low Voltage Directive 89/336/EEC EMC Directive	Signed by Mark Sweetman  7th February 2002
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*For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Products.*

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this equipment.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

**INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



**Sole UK Distributor, Sealey Group,**  
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INSTRUCTIONS FOR:

**RECHARGEABLE LANTERNS**

Model: AK435, AK436

*Thank you for purchasing a Sealey Product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.*



**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

### 1. SAFETY INSTRUCTIONS

#### 1.1. GENERAL

- ✓ Ensure the lantern is correctly charged before initial use.
- ✓ When fully charged, lantern must not be used for more than 20 minutes of continuous use. To do so may damage the lamp.
- ❑ **WARNING!** The lens becomes very hot during operation.
- x **DO NOT** cover or block the lens during use.
- x **DO NOT** turn the lantern on when it is being re-charged.
- x **DO NOT** shine directly into your, other person's or animal's eyes.
- x **DO NOT** stand the lantern near any surface or item that may be adversely effected by the heat emitted by the lens.
- x **DO NOT** allow children to use the lantern.
- x **DO NOT** handle or move the lantern whilst it is being charged.
- x **DO NOT** use the lantern if you suspect that the battery or the lantern casing is damaged.
- x **DO NOT** handle lamp bulb with your fingers. Use a soft lint-free cloth.
- ✓ Ensure that correctly rated battery and bulb are used for replacements.
- ✓ When not in use store the lantern in a safe, dry, childproof location.

#### 1.2. BATTERY SAFETY

**DANGER! - BE AWARE, LEAD-ACID BATTERIES MAY BE DANGEROUS IF NOT HANDLED WITH CARE AND ACCORDING TO THESE INSTRUCTIONS.**

- ✓ Before exposing the battery for replacement, remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short-circuit current high enough to weld a ring to metal, which would cause severe burns.
- x **DO NOT** smoke or allow a spark or flame in the vicinity of battery.
- ✓ Ensure the charger is switched off and disconnected from the lantern before attempting to open the lamp unit.
- ✓ If the battery terminals are corroded or dirty, clean them before replacing battery.
- x **DO NOT** dis-assemble the battery for any reason.
- ❑ **WARNING!** **DO NOT** allow metal tools to touch both battery terminals simultaneously. Arcing or short circuit will result.
- x **DO NOT** allow battery wires to touch each other or to make contact with any other metallic part.
- x **DO NOT** cross-connect wires to the battery as this will damage the unit. Ensure positive (+) (RED) is to positive and negative (-) BLACK is to negative.
- x **DO NOT** leave battery in a discharged state, recharge battery immediately. If the lantern is not in use, recharge the battery every three months. Dispose of the old battery in accordance with local authority acid battery regulations. **DO NOT** dispose of with regular refuse.

### 1.3. ELECTRICAL SAFETY.

**USE ONLY THE SUPPLIED CHARGER PLUG FOR CONNECTING LANTERN TO THE POWER SUPPLY.**

**ONLY USE THE SUPPLIED ADAPTOR FOR CONNECTING TO A VEHICLE 12V SOCKET.**

**WARNING!** It is the user's responsibility to read, understand and comply with the following electrical instructions:

You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products, particularly portable equipment which is plugged into an electrical supply not protected by an RCCB.

**You must** also read and understand the following instructions concerning electrical safety.

**1.3.1. The Electricity At Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.

**1.3.2. The Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of the appliance and the safety of the appliance operator. **If in any doubt about electrical safety, contact a qualified electrician.**

#### 1.3.3. You must ensure that you:

- ✓ Inspect the charger plug, cable and connector for wear and damage to ensure items are safe before connecting to the mains power supply. If worn or damaged **DO NOT** use.
- ✓ Check cables are always protected against short circuit and overload.
- ✓ Important: Check that the voltage marked on the charger plug is the same as the power supply to be used.
- ✓ Uncoil the cable between charger and the lantern.
- x **DO NOT** pull the charger plug from the mains socket by the lead.
- x **DO NOT** use any other type of charger with this product.
- x **DO NOT** place the connector into any area of the lantern except the correct jack inlet socket.
- x **DO NOT** try to take the charger plug apart.
- x **DO NOT** use the charger plug to charge or power any other electrical item.
- x **DO NOT** get the charger wet, or use in wet, damp conditions (for indoor use only).

**WARNING! NEVER** substitute a standard 13 amp 3 pin plug, or any other type of plug, for the charger plug.

**Cable extension reels.** If a cable extension reel is used it should be fully unwound before connection. A cable reel with an RCD fitted is recommended since any product which is plugged into the cable reel will be protected.

fig. 1



fig. 2



fig. 3



fig. 4



## 2. INTRODUCTION & OPERATION

### 2.1. INTRODUCTION

The AK435 and AK436 quartz halogen rechargeable lanterns, provide a clean white beam which can be seen for miles. The lanterns may be stood on a flat surface or hand held. The lanterns are powered by sealed, rechargeable, 6 volt, lead-acid batteries which may be charged via the charger plug or the vehicle cigarette lighter adaptor, both supplied.

**Output:** **AK435** . . . .1 000 000 candle power  
**AK436** . . . .2 000 000 candle power

### 2.2. OPERATION

**WARNING! Ensure you read and understand safety instructions before use.**

**Reminder:** These lanterns are designed for intermittent use only. Continuous use may damage the unit.

1. Charge the battery before use. **IMPORTANT: Turn off lantern while charging. Failure to do so will damage the charger plug/vehicle plug.**
2. Turn lantern 'On' and 'Off' by the switch on the main body.
3. To use as shown in fig.1, press locking button (fig.1.1) and rotate the handle (fig.1.2) anti-clockwise, to grip position.

Fig. 2 shows the arrangement for standing the lantern on a surface, using the adjustable support. (AK435 shown)

### 2.3. BATTERY CHARGING

**WARNING! Ensure you read, understand and apply safety instructions relating to the battery and charger before use.**

#### 2.3.1. Charger plug - AK435 AND AK436

1. Plug the charger adaptor (fig. 3.1) into the jack inlet on lantern body and stand the lantern in a safe location ready to charge.
2. Ensure the lantern is turned 'Off' and then plug charger into the mains supply and switch on. The GREEN LED on the charger plug will light up to indicate that charging is in progress.
3. When the battery is fully charged the RED LED will light up. Allow approximately 20 hours for charging. When fully charged, switch off the mains supply and unplug the charger. Remove the charger adaptor (fig.3.1) from the lantern and seal the jack inlet. The lantern may now be used.
4. Store the charger in a safe, dry location.

**Notes:** a) A fully charged battery will last for approximately 20 minutes.  
b) There is no need to fully discharge the battery before recharging.

#### 2.3.2. Vehicle plug

1. Ensure lantern is turned 'Off' and then plug the 12 volt vehicle plug adaptor (fig.4.1.) into the jack inlet on the lantern body. Stand the lantern in a safe location ready to charge.
2. Insert plug into vehicle cigarette lighter socket. Allow approximately 20 hours for charging (there are no LED indicators).
3. When fully charged, unplug the adaptor from the vehicle socket and from the lantern **before** turning the lantern on.
4. Store the adaptor in a safe, dry location.

**NOTE:** Charging the lantern from an 12 volt vehicle socket will drain the vehicle battery.