

## Solar Fence Energizer USER MANUAL

### HKS200B

#### Please Read All Instructions!

If you suspect a problem with the unit,  
troubleshoot as follows:

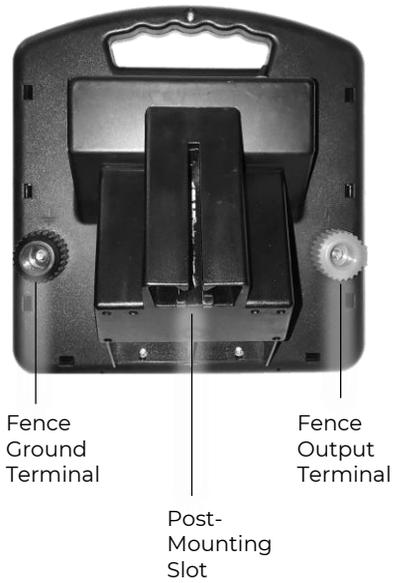
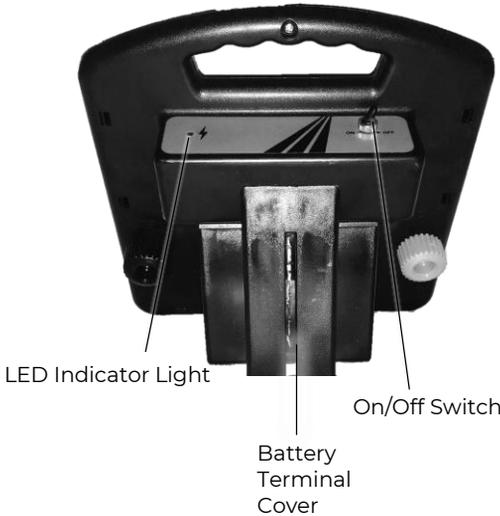


1. Check that the red indicator light on top of the unit is flashing when in the ON position
2. Check for faulty battery connection, disconnect and reconnect if necessary
3. Use a fence tester to check voltage levels
4. Review the manual for proper installation instructions. If problems persist reach out to the retailer you purchased the unit from for further instructions

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# Getting to Know Your HKS200B Solar Energizer



## Product Legend



Fence Ground  
Terminal



Fence Output  
Terminal (Red)



LED Indicator  
Light



Caution: This product carries a risk of *electric shock*! There are no user-serviceable parts. Only qualified personnel should open and/or repair this product.



Read full instructions before use of this product.



This product is **not** to be disposed of as regular waste. Contact your local waste disposal provider for information about where this product may be dropped off or recycled. This product may affect natural resource conservation if disposed of improperly.

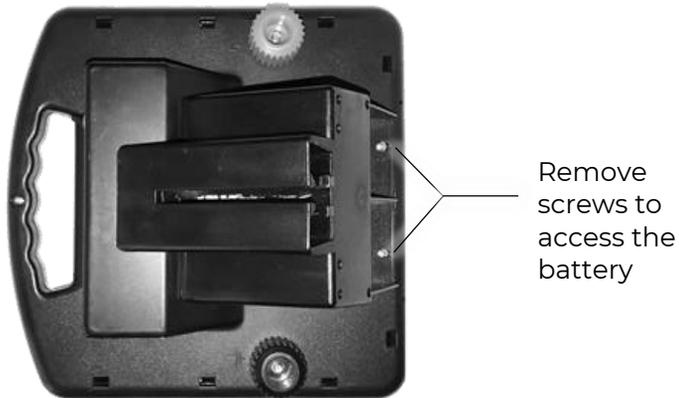


H&K Smart Fence is an environmentally conscious organization. If no environment-friendly disposal method is available to you, call us to arrange proper disposal at no cost to you. Thank you!

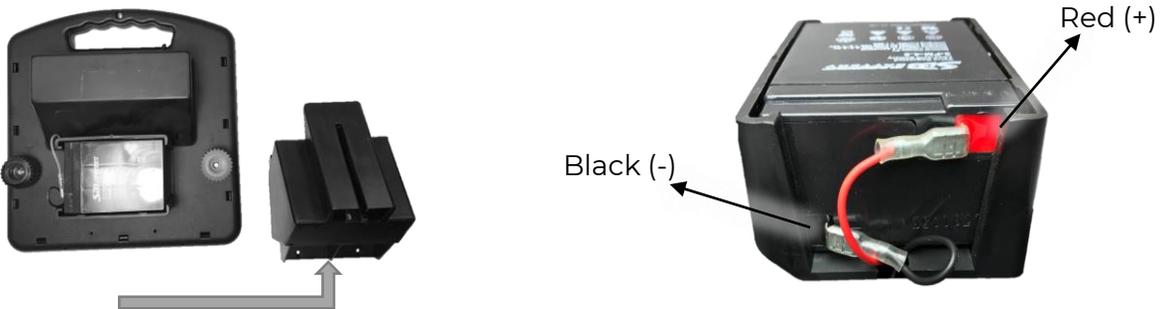
## Inserting the Battery

Depending on your location, the HKS200B may not have a battery pre-installed. If your product includes the battery, skip this section of the setup.

- Make sure the power switch is in the OFF position
- Place your HKS200B face-down on a flat surface (see image). Remove the two screws securing the battery cover.



- Remove the battery cover.



- Insert a 6V battery if one was not provided.
- On the battery, connect the positive (red) lead to the positive (+) terminal.
- Connect the negative (black) lead to the negative (-) terminal on the battery.
- Fix the battery cover back onto the energizer.

Caution: Be sure not to short the circuit by touching opposite conductors together. Remove any static electricity buildup you may have by touching a piece of grounded metal.

# Installation

## *Deciding Where to Place the Unit:*

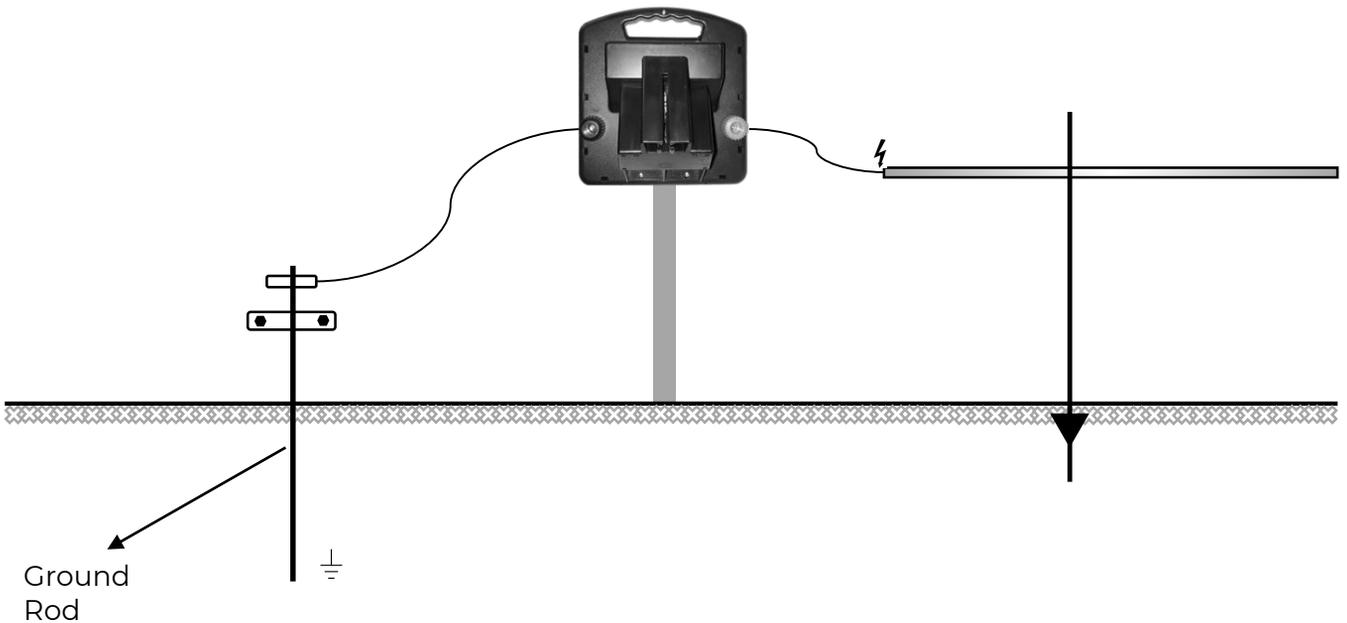
- The HKS200B fits atop a standard T-Post or Y-Post
- Place the energizer near the middle of the electric fence
- Position the T-Post so the solar panel will face directly **South** (North if located in the Southern Hemisphere)
- Place the unit where it will receive unimpeded sunlight throughout the season
- Make sure the selected location is suitable for installation of a ground rod
- Install the energizer where it is not easily accessed by children or pets
- It is the owners responsibility to display adequate cautionary warnings where the conductors are accessible
- Any part of the electric fence that is installed along public property must be identified at frequent intervals by warning signs securely fastened to the fence posts or fence wires
- The size of the sign must be at least 4"x8" (10cmx20cm), must have a yellow background on both sides, and contain a variation of the words "Caution: Electric Fence"
- Warning sign must be a minimum of 1" off the ground

For optimal battery life, place your energizer in the OFF position and allow it to charge for a minimum of three days before use.

# Installation

## Connecting the Unit to the Fence

- Properly grounding the fence is the most important aspect of an electric fence system!
- Insert a ground rod roughly 36" (~1m) into the soil
- Connect the black Ground Terminal ( $\perp$ ) to the ground rod with the provided lead.
- Connect the fence Output Terminal (⚡) to the fence with the provided lead, ensuring that there is sufficient contact.



## Operating the HKS200B

- Switch the unit ON using the switch atop the unit
  - A LED indicator light will flash intermittently if the unit is working
- Switch the unit OFF using the switch atop the unit
- A flashing LED light near the power switch indicates the output pulse speed
  - A flash every 1.5 seconds indicates the battery is working normally
  - A flash every 3 seconds indicates the battery is Low
- When the battery falls below a safe operating level the unit will enter Standby Mode. When in Standby Mode the unit is still on but will not deliver an electric shock
- The unit will resume normal operation once the solar panel has adequately charged the battery above a safe operating level
- After adequate power is re-established the unit will resume delivering electric shocks. However, the unit will pulse every 3 seconds until the battery reaches a normal amount of stored energy

The HKS200B can fully charge a dead battery in two weeks if the unit is switched off and placed in direct sunlight. A battery charger designed for lead-acid batteries may be used at the owners risk.

## **Maintaining the HKS200B**

- The solar panel must be cleaned regularly to ensure proper function of the unit
- To clean the solar panel, use glass cleaner and a soft cloth to clean the panel as you would normal glass
- When transporting the unit, ensure the solar panel is covered and protected to prevent the glass from being damaged
- Do not, for any reason, submerge the HKS200B in water

## **Storing the HKS200B**

- The unit must be stored inside near a window where sunlight can maintain the battery daily
- If storing the unit in a sunny location is not possible, storage in a cool dry place is preferred. Fully charging the battery and disconnecting the leads to the battery is ideal.
- If the unit is in long-term storage, access the unit and charge it every 6 months.

## **Safely Using the HKS200B**

- Disconnect the battery from the unit before using an external charging device to recharge the battery
- Double-Check your work to ensure compliance with local code and regulations
- Switch the unit to the OFF position prior to performing any work on the fence.
- Do not simultaneously connect this unit to other energizer units, as this will damage all products connected.
- Do not connect to mains-operated or line-operated equipment
- Read all safety considerations carefully!
- This product has been designed and approved for use with electric animal fences only!

## ***Warranty Information***

- This warranty does not cover defects caused by:
  - Incorrect Input Voltage or Polarity
  - Damage to wiring
  - Physical mishandling
  - Water Immersion
  - Rodent or Insect Damage

This warranty covers defects caused by lightning

This product carries a warranty against faulty material and workmanship for a period of 2 years from the date of purchase

***Disclaimer:***

The information in this user manual is intended solely for the personal non-commercial use of the user who accepts full responsibility for its use. While we have taken every precaution to insure that the content of this user manual is both current and accurate, errors can occur.

The information contained in this user manual is general in nature and should not be considered to be legal, tax, accounting, consulting, safety, or any other professional advice. In all cases you should consult with professional advisors familiar with your particular factual situation for advice concerning specific matters before making any decisions.

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