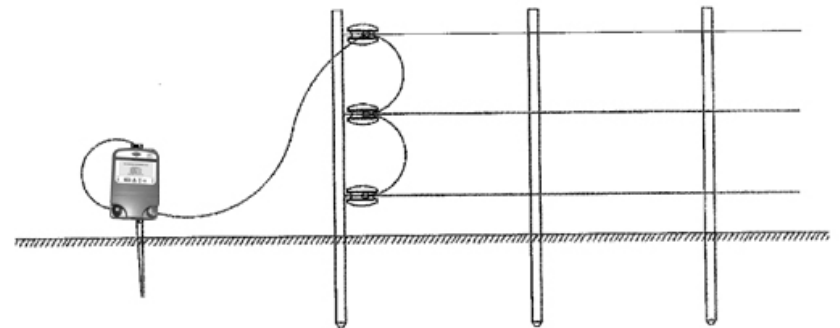




**"THOR" 9031**  
**"APOLLO" 9033**

ELECTRIC FENCING ENERGISER

USER MANUAL





## 6. Guarantee

We grant a warranty of 12 months as standard, starting from the date of the purchase (marked on the invoice). We will only perform warranty services when the faulty unit is returned to us together with a copy of the invoice and warranty card which are issued by the dealer to the user.

If these requirements are not fulfilled, we reserve the right to deny warranty services. Warranty claims are excluded for direct or indirect damages due to:

- 1) Beyond warranty date.
- 2) Without warranty card and serial number (for warranty card, please see appendix ).
- 3) Transport damage.
- 4) Improper use, operation and refitting.
- 5) Non-observance to the relevant safety instructions.
- 6) Beyond installation and usage areas of the relevant international standards.
- 7) Influence of foreign objects and force majeure (lightning strike, overvoltage, severe weatherfire etc)

## 7. Contact Information

If you have any further technical questions about our products, please contact us:

Gwaza Ltd

[www.gwaza.co.uk](http://www.gwaza.co.uk)

Add: New House Farm, Shoothill, Ford, Shrewsbury, Shropshire, SY5 9NR, England.

Tel: +44 1743 850761

E-mail: [sales@gwaza.co.uk](mailto:sales@gwaza.co.uk)

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## Foreword

Thank you for buying this electric fence energiser. These energisers have built-in lightning protection devices to help minimise the risk of lightning damage and built-in RFI (Radio Frequency Interference) Suppressed Circuitry. If for any reason you are not happy with your purchase, please return the energiser to your dealer within 30 days of purchase and we will give you a full refund. If you have any questions regarding this product please contact the store where you purchased this item.

Please read this manual carefully before using the energiser. Keep the manual for future reference. Do not let children operate or play with an electric fence charger.

## 1. Introduction

This manual is for the "Apollo" and "Thor" battery electric fence energisers.

## 2. Safety requirements and regulations



**WARNING:** Please read the following installation requirements and regulations:

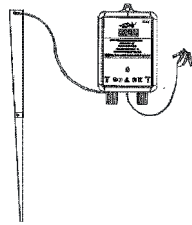
- ⚡ Ensure energiser is turned off before touching fence.
  - ⚡ Do not let the fence energiser become drenched in water.
  - ⚡ This product must be placed or installed on open ground.
  - ⚡ This fencing system is used to contain animals and for no other purpose.
  - ⚡ Make sure the guard is earthed.
  - ⚡ Take care not to cut the fence wire when cutting vegetation.
  - ⚡ Check the batteries at regular intervals. Please replace the batteries when the BAT (battery caution light) light glows. Take out the batteries when the fencer is not being used to avoid battery leakage.
  - ⚡ Do NOT climb over, through or under a multi-wire electric fence. Use a gate or a specially designed crossing point.
  - ⚡ Avoid electric fence configurations that are likely to lead to the entanglement of animals or people.
  - ⚡ Electric fences should be installed and operated so that they cause no electrical hazard to persons, animals or their surroundings.
  - ⚡ It is recommended that, in all areas where there are unsupervised children, that a suitably rated current limiting device having a resistance of not less than 500 ohms be connected between the energiser and the electric fence.
  - ⚡ The appliance is not intended for use by young children or the disabled.
- Do not place combustible materials near the fence or energiser connections. In the event of a

## 5. Maintenance

Warning: Do not dismantle the unit to repair. Please contact your dealer.

| Fault  | Possible Cause(s)            | Solution  |
|--|------------------------------|---|
| Energiser doesn't operate  | Energiser Off                | Switch ON   |
|  | Incorrect battery voltage    | 12V battery   |
|  | Incorrect battery connection | Connect red lead to the (+) terminal of battery, black lead to (-) terminal   |
|  | Battery is flat              | Battery voltage should be greater than 11.8V  |
|  | Faulty energiser             | Have the energizer repaired   |
| Electric fence voltage is below 3000V or your stock are escaping | Faulty energiser             | Turn the energiser OFF and remove the fence wire from the Red terminal. Turn the energiser ON again. Using a Digital Volt Meter (9154) check the voltage across the terminals. If the voltage is less than 5000V, have the energiser repaired.  |
|  | Inadequate earthing          | Improve the earth system by adding more galvanized earth stakes to the earth system until the earth voltage is 200V or below.   |
|  | Short on the fence line      | Check the electrical connections are secure. From the fence to the red terminal, from the earth system to the green terminal, at gates etc.<br><br>Check the voltage on the fence every 33m (100ft) using the Digital Volt Meter(9154). Note if the voltage is dropping. The closer to a fault, the lower the voltage reading will be. Become aware of things that cause faults and always be on the lookout for: stray pieces of wire on the fence, heavy vegetation growth, cracked or broken insulators, and broken wires. |

### 3. Specification



A) Battery powered electric fence energiser (powered by 12V lead-acid)

#### Energiser includes:

- 1 x battery electric fence energiser.
- 1 x 1000mm fence wire.
- 1 x 1000mm earth wire.
- 2 x 200mm earth stakes.
- 2 x M3 screws which can make the two earth stakes in to one long 390mm earth stake.
- 2 x M4 screws which can hang the energiser from the earth stake.
- 1 x user manual.
- 1 x colour carton.

#### Features:

1. Water-proof and heavy duty case.
2. Low average current use, longer battery life.
3. Ultra bright LED indicator to show when the battery is running low.
4. Easy-access terminals and mounting brackets for quick connection and installation.
5. Bottom easy to plug DC input terminals.
6. CE, ROHS marked.
7. **Weight:** 1kg.
8. **Size:** 187mm x 109mm x 53mm.

### Characteristics:

| Model number | Stored energy (Joules) | Power source | Average current | Maximum current | Open volts | 500ohm load volts | Output energy (Joules) | Power length (km) | Earth stakes |
|--------------|------------------------|--------------|-----------------|-----------------|------------|-------------------|------------------------|-------------------|--------------|
| 9033         | 0.6                    | 12V          | 40mA            | 70mA            | 10000      | 3200              | 0.48                   | 10                | 1            |
| 9031         | 2.3                    | 12V          | 120mA           | 150mA           | 10000      | 4500              | 1.6                    | 30                | 1            |

### 4. Installation guide

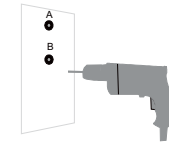
#### Step 1. Mounting the Energiser

Install where there is no risk of the energiser incurring fire or mechanical damage and where the battery leads can be attached easily.

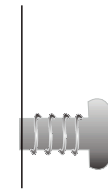
**Note:** It is important to mount the energiser upright. Make sure the battery is also installed in a well-ventilated area.

#### To Wall Mount

1) Drill holes (A and B holes). Use a 4mm (5/32") diameter drill for timber walls or a suitable wall plug for brick and concrete walls (illustration a).



2) Using the screws clipped to the energiser, secure screw(s) in hole(s) A as shown (illustration b).



3) Hang the energiser on to the screw(s) B. Fit screw through energiser into hole (B) for extra stability as necessary or required (illustration c).



### Step 2. Connect to earth (ground) system

Using the lead-out cable remove 5cm (2") of plastic coating from one end of the cable and attach to the green terminal on the energiser. Attach the cable to the earth system by removing 10cm (4") of insulation from the cable at each earth stake and then clamp the exposed wire to each stake using an "Earth Clamp". Tighten the clamp.

### Step 3. Connect the fence

Connect the energiser's red terminal to the fence using the lead-out cable: remove 5cm (2") of plastic coating from one end of the cable and attach to the red terminal on the energiser. Attach the other end of the cable to the fence using a "Joint Clamp".

### Step 4. Connect the power

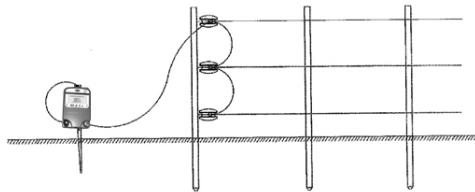
There is a power cord with a crocodile clip and power terminal. Connect the terminal of the cord to the energiser, making sure connection is correct. Connect the battery leads from the energiser to the battery using crocodile clip: the red crocodile clip to the (+) terminal of battery, the black crocodile clip to the (-) terminal of battery.

### HOW TO INSTALL EARTH (GROUND) SYSTEM

Improperly earthed energisers can cause barns and gates, for example, to become hot (live). Follow the earthing instructions carefully.

Finding wet ground and using the earth stake provided, make sure the earth stake is at least 200mm in to the earth and hang the energiser from the top of the stake. Using the black earth wire, connect to the black ground terminal. Using an M4 screw provided, fix the other terminal of the black earth wire to the top of the stake.

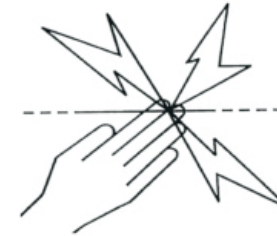
The most effective place for an earth system is in continuously damp soil, see the illustration below:



### HOW TO INSTALL THE FENCE

1. Plan the fence line. Avoid rough, stony or steep areas if possible. For best electric fence performance use multi-wire (at least 3 wires connected in parallel) fencing.
2. Install end strain posts and corner posts. Ensure that all corner posts are firm to withstand the wire strain. Ensure the cross wire does not touch the hot (live) wires.
3. Run out the bottom wire between the end posts.
4. Tension wires until there is only a slight visible sag.
5. Connect all live wires in parallel at the end of each fence section using joint clamps. Use joint clamps to ensure tight wire connections. Connect any earth wires together in parallel. Never connect hot (live) and earth wires together.

- to every point where persons may gain ready access to the conductors.
- ⚡ Fence wiring should be installed well away from any telephone line, telegraph line or radio aerial.
- ⚡ The size of the warning sign must be at least 100mm x 200mm.
- ⚡ The background colour of both sides of the warning sign should be yellow. The text on the sign should be black and should show either:
  - "CAUTION: Electric Animal Fence" or,
  - The symbol shown below:



- ⚡ The inscription must be indelible, inscribed on both sides of the warning sign and have a height of at least 25mm.
- ⚡ Ensure that all mains operated, ancillary equipment connected to the electric animal fence circuit provides a degree of isolation between the fence circuit and the supply mains equivalent to that provided by the energiser.
- ⚡ Ancillary equipment should be protected from the weather unless this equipment is certified by the manufacturer as being suitable for use outdoors and is of a type with a minimum degree of protection IPX4.

This energiser complies with international safety regulations and is manufactured to international standards. Gwaza Ltd reserves the right to make changes without notice to any product specification to improve reliability, function or design.