

**NEMTEK**

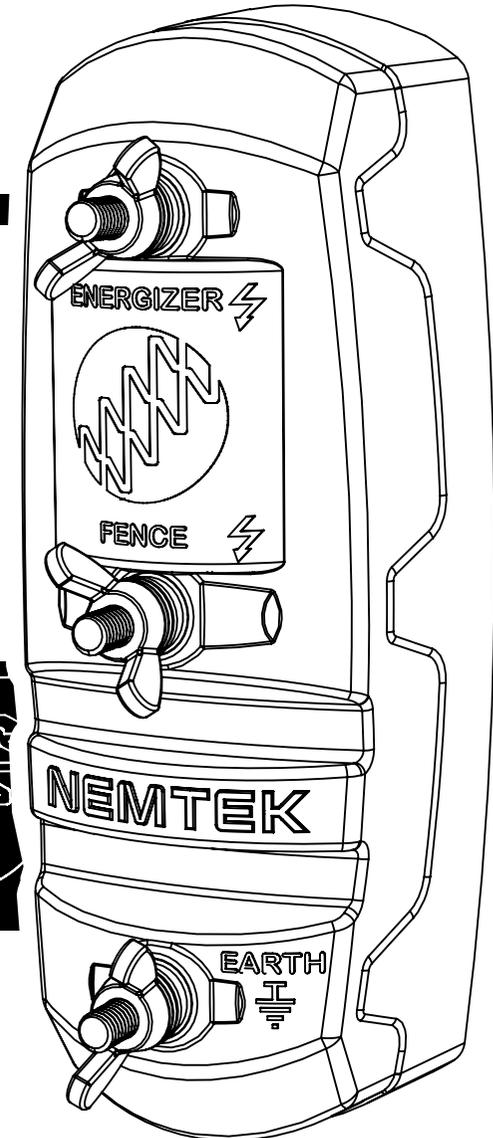
Electric Fencing Products



## NEMTEK Lightning Inhibitor and Diverter

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

# Dual Protection



V I.0

## Lightning inhibitors and diverter kits that are available from Nemtek

**KIT 1** EA-LDK1N Lighting Diverter Kit Single Zone Fence

**KIT 2** EA-LDK2N Lighting Diverter Kit Dual Zone Fence

**\*KIT 3** EA-LDK3NAC Lighting Diverter Kit Single Zone Fence & AC

**\*KIT 4** EA-LDK4NAC Lighting Diverter Kit Dual Zone Fence & AC

\*The mains protection component supplied in **KIT 3** and in **KIT 4** may require a qualified electrician or technician to install.

### WARRANTY

Unless otherwise specified, all products manufactured and supplied by Nemtek have a two year warranty on energizers and a one year warranty on all other fencing components from date of sale against defects due to faulty workmanship or materials.

Nemtek (Pty) Ltd will, at its discretion, either repair or replace a product that proves to be defective.

Nemtek (Pty) Ltd does not guarantee that the operation of the product will be uninterrupted and totally error free. Faulty units must be returned to one of the Nemtek Group outlets. The buyer shall pay all shipping and other charges for the return of the product to Nemtek (Pty) Ltd.

### LIMITATION OF WARRANTY

The warranty does not apply to defects resulting from acts of God, modifications made by the buyer or any third party, misuse, neglect, abuse, accident and mishandling.

### EXCLUSIVE REMEDIES

The remedies provided herein are Nemtek (Pty) Ltd's sole liability and the buyer's sole and exclusive remedies for breach of warranty. Nemtek (Pty) Ltd shall not be liable for any special, incidental, consequential, direct or indirect damages, whether based on contract, tort, or any other legal theory. The foregoing warranty is in lieu of any and all other warranties, whether expressed, implied, or statutory, including but not limited to warranties of merchantability and suitability for a particular purpose.



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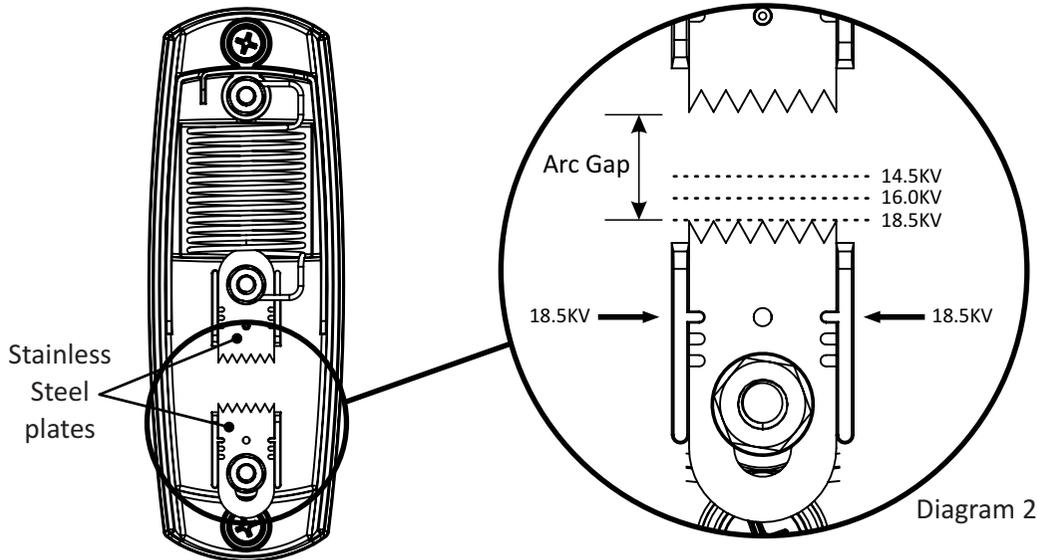
The lightning diverter can be mounted onto a flat or a round surface using the 2 mounting screws supplied with the unit.

**Note:** Do not over tighten the mounting screw as this may distort the housing.

- There are three arc gap setting positions which can be set by moving the bottom stainless steel plate as shown in diagram 2.

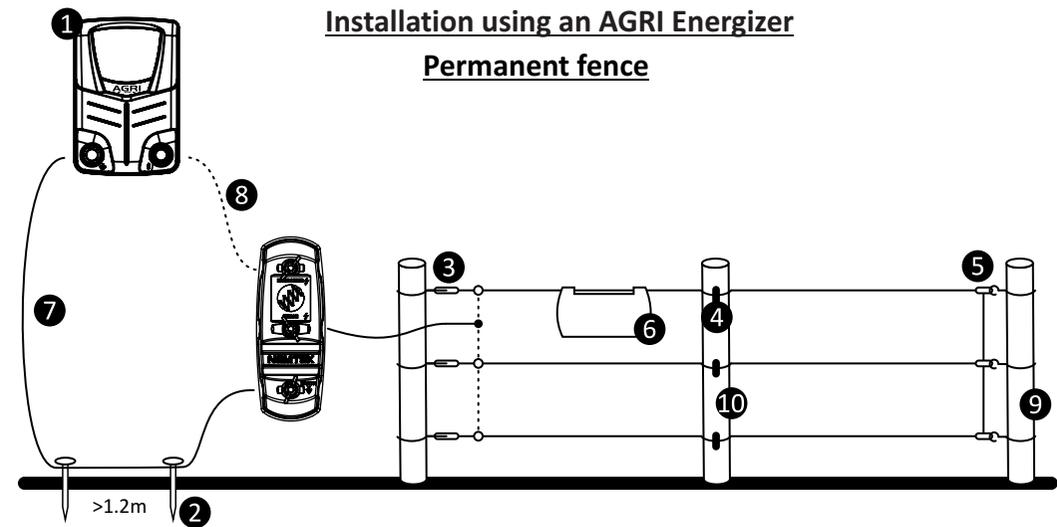
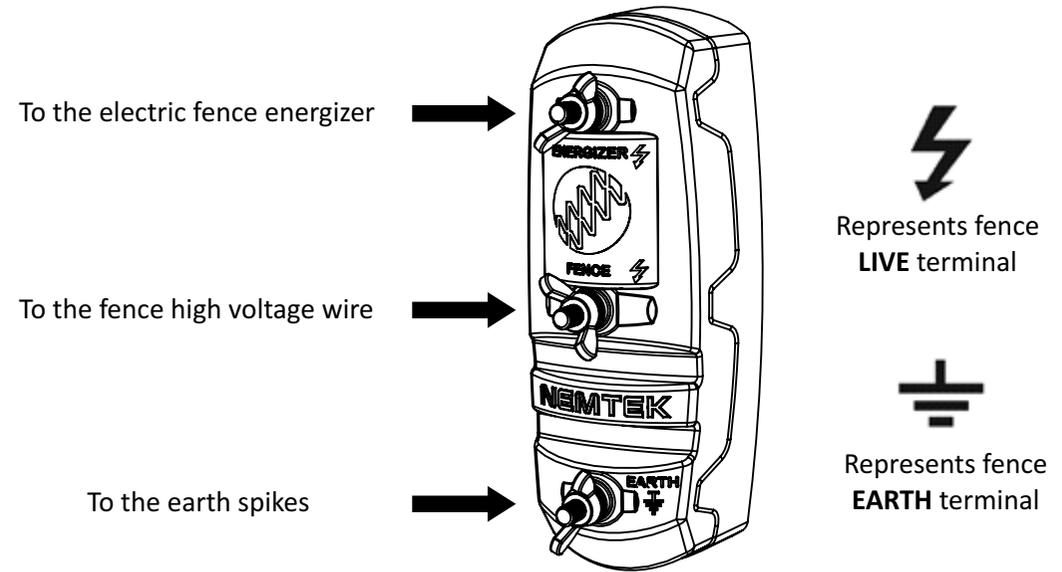
- Position 1. 14.5 KV
- Position 2. 16.0 KV
- Position 3. 18.5 KV

The recommended setting for most applications will be position 1. (14.5KV). The KV rating may however vary depending on the environment and a different arc gap setting may be required, position 2 or 3



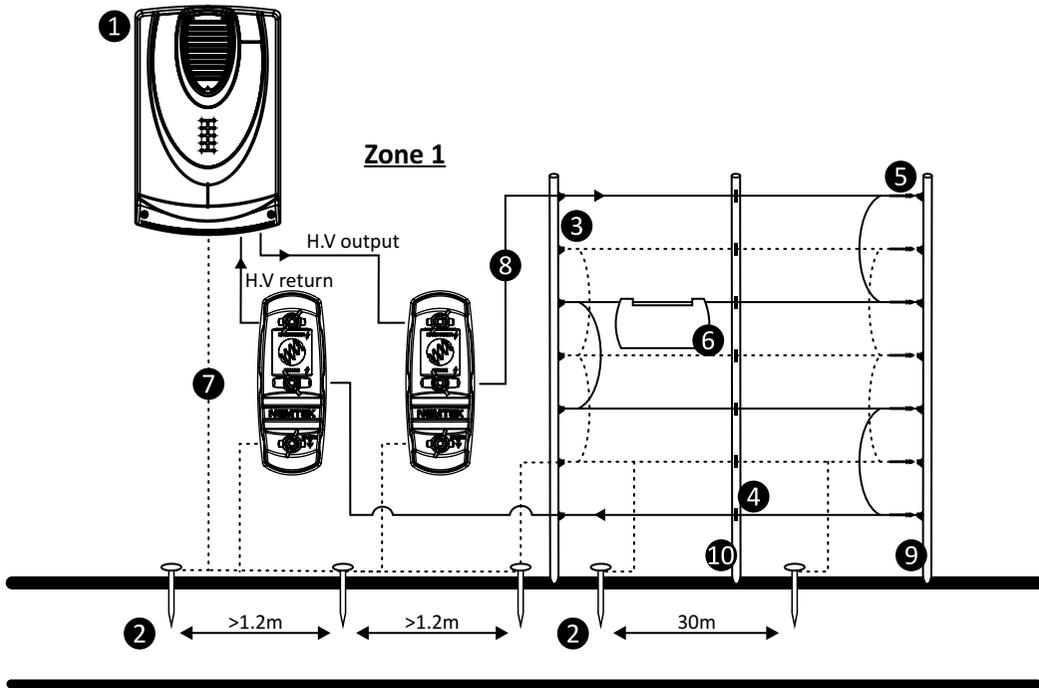
- Ensure that all the nuts inside the unit are tight for a good electrical connection.
- Close the lid and connect the HT cable (high tension cable) between the washers and tighten the butterfly nuts by hand to ensure a good electrical connection.

### Connecting the HT cable onto the lightning inhibitor and diverter

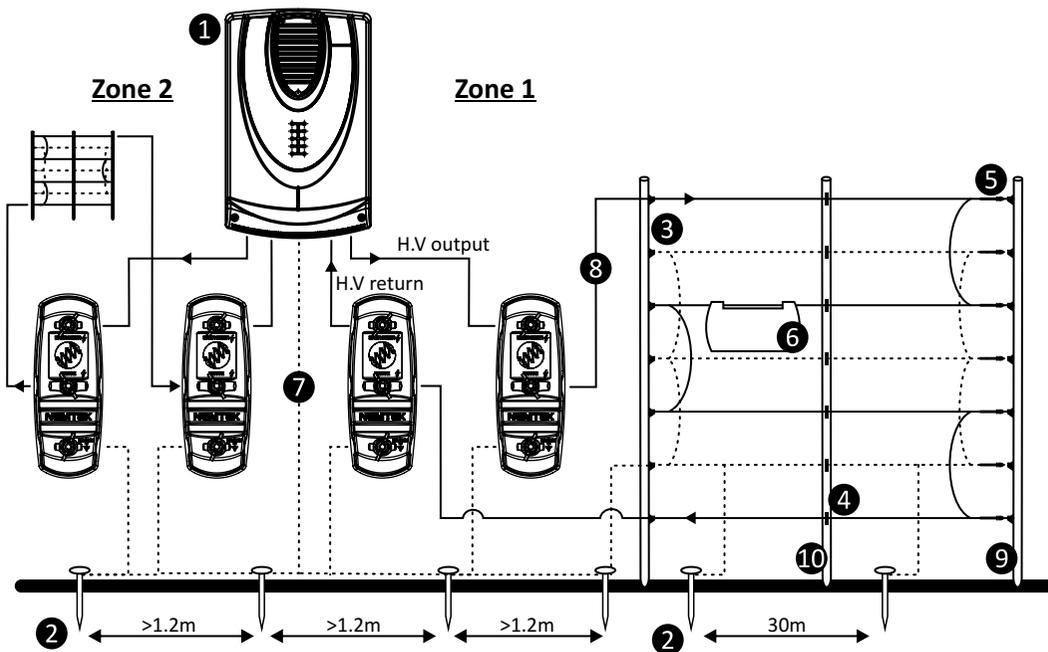


- |                          |                        |                      |
|--------------------------|------------------------|----------------------|
| 1 Energizer              | 5 Nylon wire tensioner | 9 Tension post       |
| 2 Earth spike            | 6 Nemtek warning sign  | 10 Intermediate post |
| 3 Insulator              | 7 Earth                |                      |
| 4 Intermediate insulator | 8 Live                 |                      |

**Installation using a single zone security energizer**



**Installation using a dual zone security energizer**



**Introduction.**

Nemtek energizers have extensive lightning protection built into the units to help reduce the possibility of damage caused by lightning strikes. Additional external lightning protection reduces the likelihood of power surge coming through the fence wires to the energizer. The Nemtek lightning inhibitor and diverter offers a two pronged approach. Firstly it inhibits the lightning surge from damaging the energizer and secondly it diverts any lightning surge away from the energizers into the ground through the earth spikes. Protection from surges coming through the mains as opposed to the fence is also available from Nemtek.

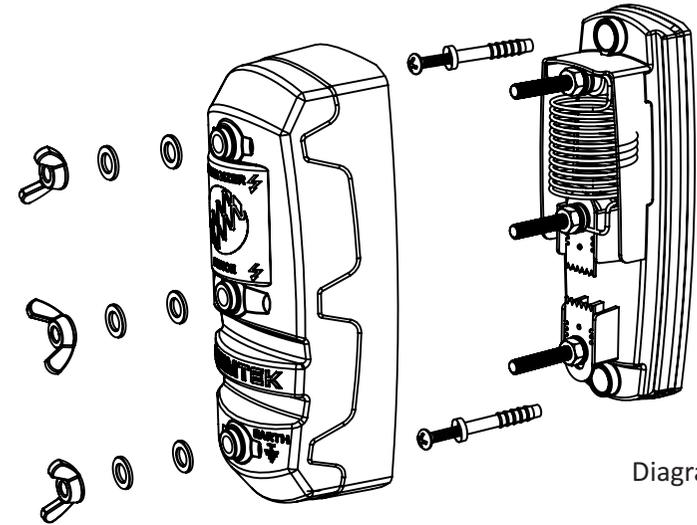


Diagram 1

**Instructions**

1. Install the lightning inhibitor and diverter between the energizer and the beginning of the electric fence. It should be installed closer to the electric fence than the energizer for increased surge and lightning protection. Ideally the diverter should be installed as close to the earth spike as possible but no more than 2 meters away.
2. You will require two lightning inhibitors and diverters for a single zone security energizer, four lightning inhibitors and diverters for a dual zone energizer and one for the agricultural energizer range.
3. Open the lightning diverter cover by removing the butterfly nuts and washers to expose the two mounting screw holes inside the unit. The mounting screw holes are located at the top and at the bottom of the lightning diverter.