

FENCE ENERGIZER **LFL**

USER'S

MANUAL

For Electric Fence Energizers, Chargers,
Controllers, Fencers manufactured

This manual is commonly used for the
following models

LFL120-1

LFL200-1

LFL450-1

LFL500-1



PARTS OF THE ENERGIZER



1 LED PULSE INDICATOR

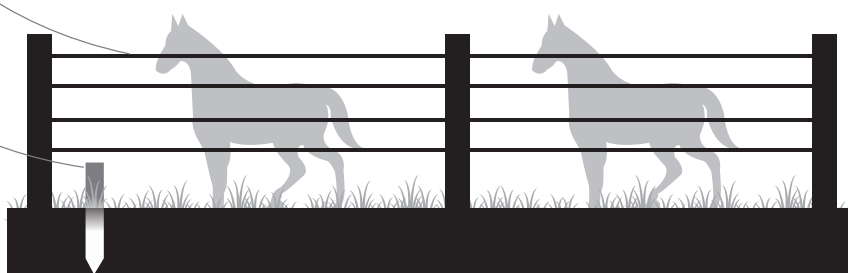
Fence indicator flashes with each pulse+ battery check

3 GROUND CONNECTION

Left side connects earth rod

4 FENCE CONNECTION

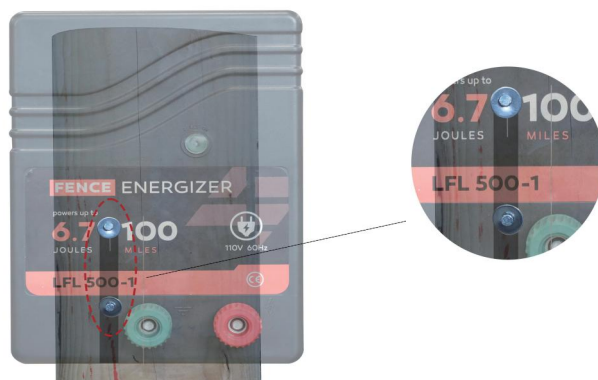
Right side connects electric fence










a). FOR USE ON T-POSTS



b). FOR USE ON STAKES



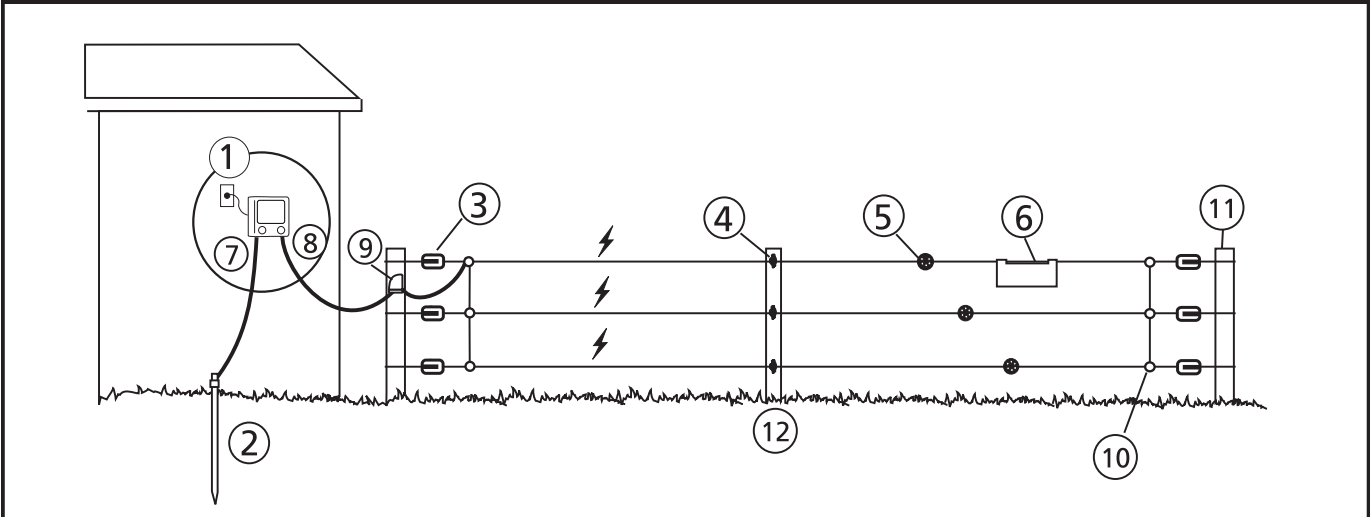
KEY TO SYMBOLS ON THE UNIT

-  Fence ground terminal (green). Connect the fence ground terminal to the ground system.
-  Fence output terminal (red). Connect the fence output terminal to the fence.
-  Unit is suitable for connection to AC 120V
-  Risk of electric shock! Do NOT open!
-  Read full instructions before use.
-  Double insulation-no serviceable parts
-  Do not connect to mains-operated equipment including battery charges.

INSTALLATION INSTRUCTIONS

1. Make sure to connect the ground terminal of the Fence to an independent ground system that is situated at a distance of no less than 33 feet (10 meters) from any other ground systems.
2. Attach the output terminal of the Fence to the actual fence.

Permanent Fence



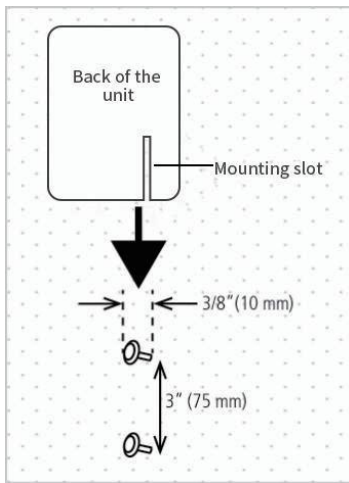
- | | | | |
|---------------|------------------|------------------|-----------------|
| 1 Energizer | 4 Post insulator | 7 Earth (Green) | 10 Joint clamps |
| 2 Earth stake | 5 Wire | 8 Live (Red) | 11 Fence post |
| 3 Insulator | 6 Warning sign | 9 Cut out switch | 12 Line post |

MOUNTING THE UNIT

To install the unit, use the two 3" (75mm) nails and two washers provided to mount it onto a vertical support or wall material. Start by threading the washers onto the nails. Then, space the nails 3" (75mm) apart or the length of one nail. Hammer the nails into your chosen surface while allowing them to protrude by about 3/8" (10mm). Next, slide the unit onto the nails with the washers placed inside the mounting slot.

Note:

- ! In the event that the unit needs to be mounted onto a concrete, brick, plasterboard or similar wall, it is recommended that screws be used in place of nails. Additionally, wall anchors or plugs may also be necessary for added support.



OPERATION

1. Connect the unit to the mains/line power supply by plugging it in.
2. Activate the mains/line power supply switch. Once the switch is on, the pulse indicator light will flash consistently with each unit pulse.

	LFL120-1	LFL200-1	LFL450-1	LFL500-1
	60 Acres 15 Miles	165 Acres 50 Miles	250 Acres 80 Miles	300 Acres 100 Miles
Power supply	110V power supplied			
Output voltage	11.7kv max 4.8kv at 500 Ω	12kv max 5.7kv at 500 Ω	13kv max 6.5kv at 500 Ω	12.4kv max 7kv at 500 Ω
Output energy	up to 0.5 J	up to 2 J	up to 4.5 J	up to 6.7 J
Stored energy	up to 0.85 J	up to 3 J	up to 6.8 J	up to 9.9 J

BUILDING AN ELECTRIC FENCE

Note:

! The intended usage of this product is for electric animal fences.

INSTALLING AND TESTING A GROUND SYSTEM

Choose a suitable location for the ground system, ensuring that it is situated at a minimum distance of 33 feet (10 meters) from any other ground systems, such as telephone lines, mains/line power, or any ground systems from other units.

Install ground rods that measure 6' (2 m) in length into the soil. Consult the table below for the minimum number of recommended ground rods necessary for an effective ground system:

Model	Ground rods
Lydite LFL120-1	1
Lydite LFL200-1	3
Lydite LFL450-1	5
Lydite LFL500-1	6

SAFETY CONSIDERATIONS

! Warning:

-USA and Canada-To reduce the risk of

To prevent electric shock, make sure to properly connect the power adapter to the polarized outlet.

If the plug does not fit in the outlet, try reversing it first. If it still doesn't fit, it is recommended to seek assistance from a qualified electrician for proper installation.

HAZARDS

- Please avoid climbing through or underneath an electric fence.

Instead, if you need to cross an electric fence, use a designated gate or specially designed crossing point. This will help to ensure a safe and secure passage.

- Please make sure that both young and physically vulnerable individuals are supervised when using this unit. Moreover, do not permit young children to handle or play with this unit or be in close proximity to an electric fence or any electrified wires. These precautions are intended to ensure a safe and secure use of the product.

- Do not electrify barbed wire
- Do not place the unit's ground electrode within 33' (10 m) of any part of a power supply ground system or telecommunications ground system. Do not support off-set electrified wires less than 6" (150 mm) from the vertical plane of a barbed wire fence.
- Do not supply an electric fence from two units. Do not allow electrified wires from two units on the same or adjacent properties to be less than 8 (2.5 m) apart.
- Do not run electric fence wires above or close to overhead power or communication lines.
- Do not electrify any fence construction which could lead to entanglement of persons or animals. We recommend for instance, that no more than one electrified off-set wire be supported on either side of a barbed wire or mesh fence.

DUTY TO THE PUBLIC

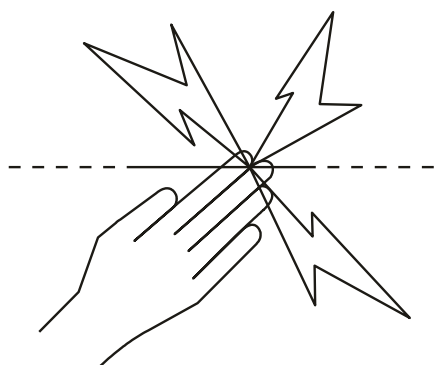
It is mandatory to have warning signs placed wherever individuals can easily access the conductors.

When an electric animal fence intersects with a public pathway, a non-electrified gate or stile must be added to the electric animal fence at that point. Warning signs must be mounted on the electrified wires at any such crossing.

Any section of the electric animal fence that runs along a public road or pathway must be clearly marked using warning signs that are firmly fastened to fence posts or securely clamped to the fence wires at regular intervals.

Any section of the electric animal fence that runs along a public road or pathway must be clearly marked using warning signs that are firmly fastened to fence posts or securely clamped to the fence wires at regular intervals.

- The size of the warning sign shall be at least 4x8" (100x200 mm).
- The warning sign must have a yellow background on both sides. The inscription must be in black and can be either:
or the substance of "CAUTION: Electric fence".



- The inscription shall be indelible, inscribed on both sides of the warning sign and have a height of at least 1" (25 mm).

DEFINITION OF SPECIAL TERMS

Unit/Charger/Energizer: A device that is designed to deliver intermittent voltage impulses to a connected fence.

Fence: A barrier made up of one or more conductors, such as metal wires, rods, or rails, that is used to contain or protect animals or for security purposes.

Electric fence: A barrier that includes one or more electric conductors, which are insulated from the ground, and to which electric pulses are applied by a unit.

Ground electrode: A metal structure that is inserted into the soil near the unit and connected electrically to the fence's ground terminal of the unit. It operates independently of other grounding arrangements.

Connecting lead: An electric conductor that is used to connect the unit to the electric fence or the ground electrode.

REQUIREMENTS FOR ELECTRIC ANIMAL FENCES

Electric animal fences and their ancillary equipment shall be installed, operated and maintained in a manner that minimises danger to persons, animals or their surroundings.

Warning:

- ! Avoid contacting electric fence wires especially with the head, neck or torso. Do not climb over, through or under a multi-wire electric fence. Use a gate or a specially designed crossing point.

This unit should not be operated by individuals (including children) with reduced physical, sensory, or mental capabilities, or a lack of knowledge or experience, unless they are supervised or instructed on its safe use by a responsible person.

It is important to supervise children to ensure they do not play with the electric animal fence unit. Electric animal fence constructions that could pose a risk of entanglement for humans or animals must be avoided.

An electric animal fence should not be powered by two separate units or independent fence circuits from the same unit.

If two separate electric animal fences are supplied by separate, independently timed units, the gap between the wires of the two electric animal fences must be at least 8' (2.5 m). If this gap is to be closed, an electrically non-conductive material or isolated metal barrier must be used.

Electrifying barbed wire or razor wire with the unit is not permitted. A non-electrified fence with barbed wire or razor wire can be used to support one or more offset electrified wires of an electric animal fence. The supporting devices for the electrified wires must be designed to ensure that these wires are positioned at least 6" (150 mm) away from the vertical plane of the non-electrified wires. The barbed wire or razor wire must be grounded at regular intervals.

To ensure safety measures, the unit's ground electrode ought to be at least 33' (10m) apart from any other grounding system connected parts, such as power supply grounding systems or telecommunications systems.

Connecting leads that are installed indoors should be protected from the grounded structural parts of the building by effective insulation, such as insulated high voltage cable.

The connecting leads that are buried underground should be run through an insulating material conduit or insulated high voltage cable to prevent any damage caused by animal hooves or vehicle wheels sinking into the ground.

In no event should the connecting leads be installed in the same conduit as the main supply wiring, communication cables, or data cables. Additionally, the connecting leads and electric animal fence wires should never cross above any overhead power or communication lines. Whenever feasible, crossings with overhead power lines should be avoided. If a crossing is necessary, it should take place beneath the power line and as close to a right angle as possible.

If the connecting leads and electric animal fence wires are set up near an overhead power line, the clearances must meet the minimum requirements indicated in the table below.

Power line voltage	Clearance
≤ 1000V	10'(3 m)
> 100V to ≤ 33,000V	13'(4m)
> 33,000V	27'(8 m)

If connecting leads and electric animal fence wires are installed near an overhead power line, their height above the ground shall not exceed 10'(3 m). This height applies to either side of the orthogonal projection of the outermost conductors of the power line on the ground surface, for a distance of:

- 66"(2 m) for power lines operating at a nominal voltage not exceeding 1000 V.
- 50'(15 m) for power lines operating at a nominal voltage exceeding 1000 v.

Electric animal fences that are designed to deter birds, contain household pets, or train animals (such as cows) can function safely and effectively with low-output units.

In electric animal fences that are meant to prevent birds from roosting on buildings, the electric fence wire should not be connected to the unit's ground electrode.

To ensure safe operation, any line-operated equipment connected to the electric animal fence circuit must provide an adequate degree of isolation between the fence circuit and the power supply mains that is equivalent to the level provided by the unit.

If the ancillary equipment is not certified by the manufacturer for outdoor use and does not possess at least an IPX4 degree of protection, it must be sheltered from inclement weather.

SERVICE OF DOUBLE INSULATED APPLIANCES

A double insulated electric fence charger/energizer has two layers of insulation instead of a grounding system. It's important to note that this unit does not contain any parts that can be serviced by the user.

+1 YEARS

WARRANTY

Please see the attached Operating Instructions for safety tips



This warranty does not cover defects caused by:

- Physical mishandling
- Incorrect input voltage or polarity
- Damage to external wiring
- Vermin or insect damage
- Water immersion

This warranty covers defects caused by lightning in USA and Canada only. For the rest of the world, lightning is excluded.

Note:

! This product has been manufactured to comply with international safety standards.

This product is warranted against faulty material and workmanship for a period of 12 calendar months FROM DATE OF PURCHASE.

