



Operating Manual

9 Volt Energisers

9.03B, 9.07B, 9.07S



Contents of the Box	9.03B	9.07B	9.07S
- Olli fence energiser	✓	✓	✓
- Connection cable to the fence	✓	✓	✓
- Earth Stake/Stand	✓	✓	✓
- Users guide	✓	✓	✓
- 12 Volt Connector Cable	-	✓	✓
- Rechargeable Battery	-	*	✓
- Rechargeable Battery Connector Cable	-	*	✓
- Mains Adaptor	-	*	✓
- Solar Panel with fitting kit	-	*	✓
* = Available as option			

Thank you for choosing the Olli energiser. Please read these instructions carefully before using the device.

We advise using a Olli Tester to help diagnose any problems you may have with your fence.



Safety

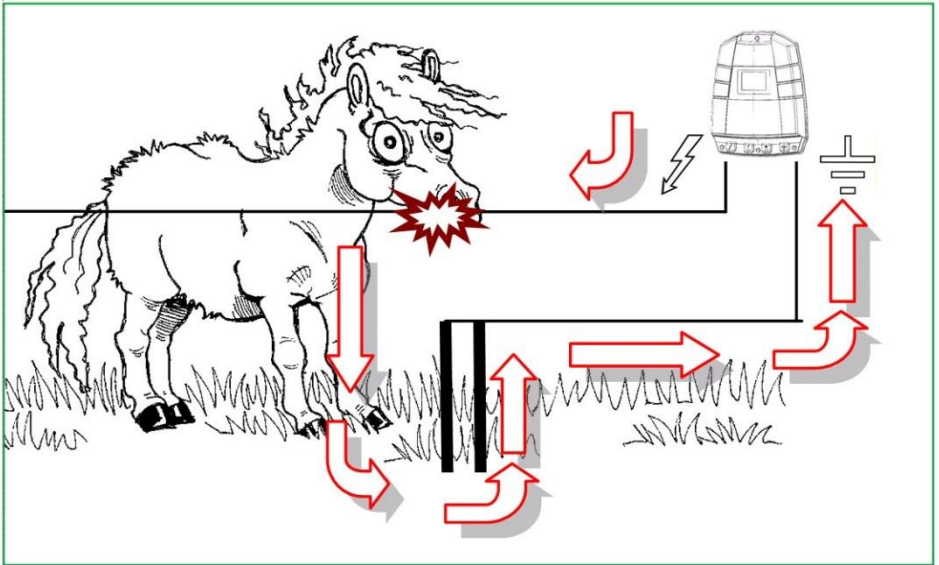
All Olli energisers fulfill the safety regulations that are defined for fence energisers. Please refer to the end of this user guide to see the full list of safety instructions.

Do not touch the fence wires or the terminals on the energiser when it is switched on. The electric shock given by the fence can be dangerous for small children or persons suffering from heart problems if they get trapped in electric fence wires. Use a designated crossing point or gate.



The fence should carry warning signs at regular intervals. Place the energiser upright where the animals cannot knock it over. Never use low voltage cables for any connections.

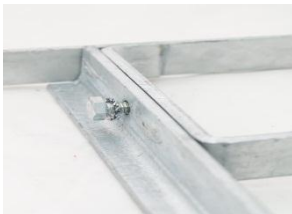
How an Electric Fence works



The animal makes the connection between the power and the earth and gets the shock !

Assembling the Energiser

First Assemble the stand / Earth Stake as seen in the picture →

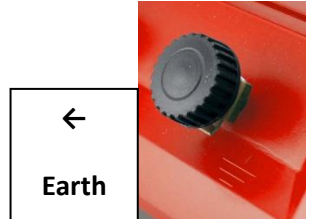


← Assemble Earth Screw Assembly as shown

EN
Fit Stand / Earth Stake to the
energiser →



→
Power



←
Earth

RED LEAD = POWER/FENCE

BLACK LEAD = EARTH

MAKE SURE THE CONNECTIONS ARE TIGHT

Connect the other end of the Earth Cable to the Earth
Stand →



Fitting the 9 Volt battery

1. Open the box by pressing in the handle clips.



2. Lift off the top and place battery in box.



3. On the underside of the top -
Connect the RED cable to the +
Connect the BLACK cable to the -



4. Replace the
handle, make
sure it clicks
to lock !



**Connect to the Fence
using the RED fence
connector cable
supplied**



MAKE SURE THE CONNECTIONS ARE TIGHT


Functions of the 9.03B


Pulse Light
Battery Indicator



High Power - 0.3J
Low Power - 0.15J

On/Off - High/Low Power

To Switch On Press  until the unit “Beeps” twice to confirm it is on.

To change from High/Low Power to Low/High Power Press 

To Switch Off Press and Keep  Pressed for 3 seconds it beeps twice on shutdown.

Battery Warning Light – 9 Volt



Flashing x 1 = Under 7.75 Volts in the battery – Go and Buy a new battery

Flashing x 2 = Under 6.20 Volts in the battery – Change the Battery

Flashing x 3 = Under 4.80 Volts in the battery – Empty – Now operating Slow pulse and Low power

Pulse light stops flashing when battery level in energiser is not high enough to produce pulses.



Beeper will sound twice during the pulse if there is a problem.

Functions of the 9.07B & 9.07S



Pulse Light

Battery Indicator

**Solar panel or Mains
Adapter connected**

On/Off

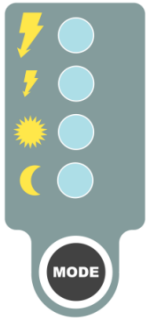


Fast Pulse every 1.55 seconds



Slow Pulse every 2.55 seconds

Choose by Pressing



High Power - 0.7 J

LowPower - 0.3 J

Day Mode - High During the day – Low at night

Night Mode - High at night – Low during the day

9.07B – 12 Volt Function



The 12 Volt Cable set comes with the energiser and needs to be fitted to the big connector on the underside of the top.

In the picture you can see the mains adaptor/Solar Panel is connected to the smaller connector.

EN

Battery Warning Light – 12 Volt



Flashing x 1 = under 12.15 Volts in the battery – remember it will need charging soon!

Flashing x 2 = Under 11.95 Volts in the battery – Charge the Battery

Flashing x 3 = Under 11.74 Volts in the battery – Empty – Now operating Slow pulse and Low power



Pulse light stops flashing when battery level in energiser is not high enough to produce pulses.

Pulse light flashes twice when the fence voltage is below 2000 Volts.



Beeper will sound twice during the pulse if there is a problem.

9.07S – Solar Panel Assembly

Fit Brackets as shown.



Make sure the washer is on the inside, and the Bolt goes from the inside out, from the handle to the bracket

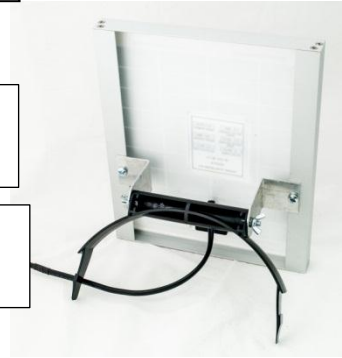




Make sure the lock washer is fitted then add the Wing Nut

When finished it should look like this →

Connect to the smaller connector on the underside of the energiser top.



Mains adapter



DO NOT USE THE ADAPTER OUTSIDE!

The Olli Solar 9.07 comes complete with a mains adapter for charging the 12 volt re-chargeable battery. This is sometimes needed in the winter months when the ambient light is not enough to keep the battery charged solely with the solar panel.



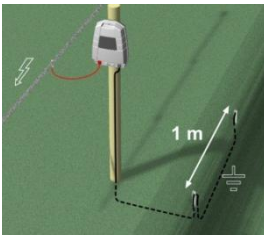
The energiser needs to be switched on before charging starts. Once charging has started energiser can be switched off. To charge a flat battery it will take 24 hours. The mains adapter will run the energiser if there is no battery.

The solar/adapter light will be on when charging.

Earthing

Poor earthing is the most likely cause of poor performance of the energiser; please follow these simple rules;

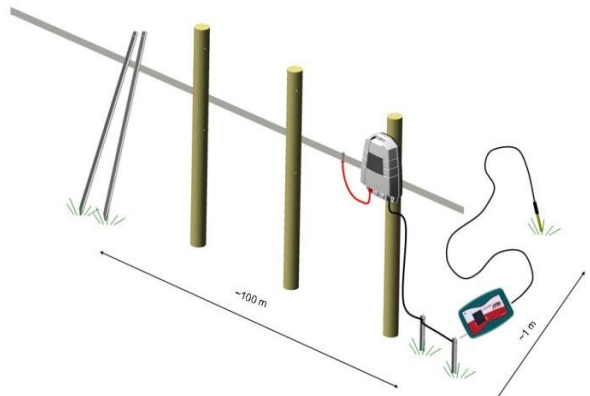
1. Wet/Clay ground makes good earthing – Dry/sandy soil is a poor earth
2. Use good quality earth stakes that are galvanized – A piece of iron will not work for very long
3. DO NOT connect the earth to a building/water pipes etc.



To get good earthing it may be necessary to have more than 1 earth stake. Extra earth stakes should be 1m from each other and connected together with high quality double insulated high voltage cable.

How to Test the Earthing

1. Short the fence using 2 metal bars
2. Using your fence tester push the probe into the ground



- 3 Touch the Earth Stake with the tester.
 - a. If it reads over 400 volts it's not working properly
 - b. Add additional earth stakes at least 1m apart
 - c. Connect the earth stakes with under gate cable

Maintenance

Test the fence

- Put the testers earth in the ground
- Touch the fence with the testers pin
- Check connections
- Minimum Voltage should be 4,000 volts



The Power in the electric fence is dependent on the connections making good contact.

Also any vegetation touching the fence will take away the power.

It is necessary to check the fence regularly to ensure no branches, bushes etc. are touching the fence

Lightning protection

All Olli energisers are protected against over voltage and the warranty covers also lightning damage. However, it is not possible to build the fence energiser to withstand all possible situations. Therefore it is wise to use an Olli lightning diverter whenever the fence is situated in very open ground or if lightning occurs frequently in the region. It is also advisable to disconnect both the fence and mains power from the energizer if you leave your electric fence unused for a long period of time.



Warranty

This product carries a three (3) year manufacturer's warranty for materials and workmanship from the date it was retailed, the warranty includes overloads caused by lightning. To claim the warranty, the customer should return the defect product to the Manufacturer, reseller or the nearest Olli

Service Partner at customer's own expense. The warranty claim must be accompanied by the description of the fault, copy of the sales receipt and customer's contact information. The Manufacturer / Olli Service Partner will repair or replace the defect product and return it as soon as possible.

The warranty does not cover any damages that are caused by incorrect or careless use of the product, installation that does not correspond to the provided instructions and other damages which may arise due to causes beyond the control of the Manufacturer. Olli does not accept any responsibility for any direct, indirect or consequential damages that are caused by the use of the product or the fact that the product could not be used. The liability of Olli is limited to the price of the product in maximum.

Instructions for installation and connection of electric fences

Electric fences shall be installed, operated and maintained in a manner that minimizes danger to persons, animals or their surroundings and as far as is reasonably possible out of the reach of children and not subject to mechanical damage. Any electric fence installed along a public road or pathway must be identified with warning signs at regular intervals. The warning sign should have a yellow background and be at least 100mm x 200mm and 25mm high, and have the words "Caution Electric fence" or have a symbol to represent a hand and shock in Black. The inscription shall be indelible, inscribed on both sides of the warning sign. Electric fences must not be supplied from two separate energizers or from independent fence circuits of the same energizer.

- Avoid contacting electric fence wires especially with the head, neck or torso. Do not climb over, through or under an electric fence. Use a gate or a specially designed crossing point.
- For any two separate electric animal fences, each supplied from a separate energizer independently timed, the distance between the wires of the two electric animal fences shall be at least 2.5 m. If this gap is to be closed, this shall be affected by means of electrically nonconductive material or an isolated metal barrier.
- Barbed wire or razor wire MUST NOT be electrified by an energizer.
- A distance of at least 10 m shall be maintained between the energizer earth electrode and any other earthing system connected parts such as the power supply system protective earth or the telecommunication system earth.
- Connecting leads that are run inside buildings shall be effectively insulated from the earthed structural parts of the building. This may be achieved by using insulated high voltage cable.
- Connecting leads that are run underground shall be run in conduit of insulating material or else insulated high voltage cable shall be used. Care must be taken to avoid damage to the connecting leads due to the effects of animal hooves or tractor wheels sinking into the ground.
- Connecting leads shall not be installed in the same conduit as the mains supply wiring, communication cables or data cables.
- Connecting leads and electric fence wires shall not cross above overhead power or communication lines.

EN

- If an electric fence has to be installed under or near overhead power lines it should NOT cross above it or run in parallel to it for any big distance. Electric fencing should be done at right angles to the power lines, the distance from the ground to the top of the fence should not exceed 2 meters, and the fence or any part of it should be no closer to the overhead wires than those values shown below;

Power Line Voltage	Up to 1,000Volts	Clearance 3m
Power Line Voltage	1,000 to 33,000 Volts	Clearance 4m
Power Line Voltage	Over 33,000 Volts	Clearance 8m

- Electric fences intended for deterring birds, household pet containment or training animals such as cows need only be supplied from low output energizers to obtain satisfactory and safe performance.
- In electric fences intended for deterring birds from roosting on buildings, no electric fence wire shall be connected to the energizer earth electrode. A warning sign shall be fitted to every point where persons may gain ready access to the conductors.
- Where an electric fence crosses a public pathway, a non-electrified gate shall be incorporated in the electric animal fence at that point or a crossing by means of stiles shall be provided. At any such crossing, the adjacent electrified wires shall carry warning signs.
- 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 energizer.
- Protection from the weather shall be provided for the ancillary equipment 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.

Declaration of Conformity

according to ISO/IEC Guide 22 and EN 45014

Farmcomp Oy

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declares, that the product described in this instruction manual conforms to the EMC directive 2004/108/EC by following the harmonised standards: EN 55014-1:2006, EN 55014-2:1997+A1:2001 and complies with the electrical safety standard: EN 60335-2-76:2005+A1:2006.



Tuusula, Finland

March 30, 2012

Tom Hellström

Country Manager

Signed Declarations of Conformity documents are filed at Farmcomp Oy, Tuusula.



Olli Specifications	9.03B	9.07B	9.07S
Maximum pulse voltage	9100V	9800V	9800V
Pulse voltage @ 50ohm load	2800V	3200V	3200V
Charged energy	0.43J	0.86J	0.86J
Maximum pulse energy	0.34J	0.71J	0.71J
Current consumption with 9V battery (low/high)	21mA / 44mA	40mA / 85mA	40mA / 85mA
Clean ideal fence length (According to CEE norm)	23km	35km	35km
Light vegetation	3km	7km	7km
Moderate vegetation	1km	2km	2km



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