

WOLSELEY

SX250 Solar Powered Energiser



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To Set Up Your Wolseley SX250 Fencer

Danger: Risk of electric shock.

Only carry out installation when equipment is turned off.

- 1) Ensure your backup batteries are fitted, observing the correct polarity (see item 13).
- 2) Push the minimum of 1 x 1m Earth Stake, well into the soil. For dry or well-drained soil, more earth stakes may be necessary. Ensure the soil around the stake is damp (several buckets of water will help give better conductivity between the earth stake and the soil).
- 3) Mount your “Solar Bug” on the Earth stake and connect the GREEN wire onto the stake.
- 4) Connect the HT CLIP connected to the blue wire, onto your fence line, ensuring a good contact at all times.
- 5) Do a final check of your fence line, making sure that it is correctly insulated and tensioned.
- 6) Operate the slider switch on the base of your “Solar Bug”. The pulse indicator light will flash to show the unit is operating correctly.
- 7) The “Solar Charging Indicator LED” on the panel frame will shine to indicate a good level of charge from the panel into the NIMH battery pack.
- 8) Your fencer should now be energising your fence line and containing your animals.
- 9) When replacing the batteries ensure that the unit is switched off.
- 10) Always remove the batteries when the unit is put into storage. We recommend new alkaline ‘D’ cell batteries be installed in a Solar Bug each season, even though the batteries may not be exhausted.
- 11) Make sure the solar panel is exposed to full daylight at all times, any kind of shading, even partial, will reduce the efficiency of the charge to the internal battery pack.
- 12) Keep the tempered glass solar panel clean at all times, wipe with a damp cloth and dry to a shine to maintain maximum efficiency.
- 13) To replace the batteries release the bottom cover by squeezing the 2 black catches inwards (towards the switch), pull the cover downward to expose the batteries. Replace the 2 ‘D’ cell batteries (observing polarity) with alkaline batteries. Relocate the bottom cover and snap into position over the 2 black catches.

Troubleshooting

Under normal conditions your “Wolseley Solar Bug” should be able to energise up to 5km of single strand wire fencing, 2.5km multi wire fence, or 1 net. Should you experience any problems with the operation of your unit please check the following.

- 1) Is the “Pulse Light” flashing?
- 2) If it is, turn the unit off and disconnect the fencer from the fence. Using a fence tester (P/no 33000), connect the tester between the HT clip and the

earth clip, turn the fencer on, you should get a reading in excess of 5000V, which indicates your fencer is operating correctly.

- 3) If the "Pulse Light" isn't flashing, try a set of fresh backup batteries. If it still does not operate, contact our Service Department on 01392 460077.
- 4) If your fencer has passed "Test 2", inspect your line. Look for any vegetation, which has overgrown the line, or any breaks in the line. If your soil is dry, pour some water around the earth stake to improve the earth.
- 5) Reconnect the fencer and turn it on. Check the fence with your tester. Perform one test close to the unit, between the fence line and the earth stake. Then compare this result with a reading further down the fence line, with the tester probe pushed into the soil. If the voltage has dropped considerably, then you need to improve your earth, by putting in extra stakes.

Solar Bug Specifications			
Case and solar panel frame moulded in white ultra violet stabilised polypropylene.			
Solar panel is a high efficiency monocrystalline type on tempered glass of excellent quality and long life			
	Energy stored (joules)	Open load	500ohm load
Full solar	0.35j	7Kv	3Kv
Back up power	-	6Kv	2Kv
Auto night saver open load	-	4kv-5kv	-

DISPOSAL AND RECYCLING INFORMATION Thank you for purchasing the **Wolseley SX250** energiser. Please familiarise yourself with the operator instructions for your product and always use only for the purpose it was designed. At any point in the future, should you decide to dispose of, or replace your product, please ensure that you do **NOT** dispose of it in a **Landfill** site. Please Only dispose of it at a **registered recycling facility**, more information on which can be found at WWW.RECYCLE-MORE.CO.UK . Also ensure that any batteries where fitted, are removed and recycled in the correct manner.



For any further advice on recycling our products, please contact our UK Service Department on 01392 460077, who will be pleased to help.

Safety Requirements and Regulations

- Electric fences shall be installed and operated so that they cause no electrical hazard to persons, animals or their surroundings. Electric fence constructions, which are likely to lead to entanglement of animals or persons, shall be avoided.
- An electric fence shall not be supplied from more than one energiser or from independent fence circuits of the same energiser.
- The gap between two separate electric fences with different energisers shall be at least 2m.
- If this gap is to be closed, this should be affected by means of a electrically non conductive material.
- Barbed or razor wire shall not be electrified by an energiser.
- Any part of an electric fence which is installed along a public path or highway shall be identified by warning signs (p/no 33020) securely fastened to the fence posts or firmly clamped to the fence wires at intervals recommended to be of approximately 10 metres to 50 metres, but not exceeding 90 metres. The warning signs shall be at least 100mm x 200mm. The background colour of both sides shall be yellow. The inscription shall be black and shall be the substance of **TAKE CARE - ELECTRIC FENCE**. The inscription shall be indelible, inscribed on both sides and have a height of at least 25mm.
- Except for low output battery operated energisers, the energiser earth electrode shall penetrate the ground to a depth of at least 1m.
- Connecting leads that are run inside buildings shall be effectively insulated from the earth structural parts of the building. This may be achieved by using double insulated high voltage cable (p/no 31640). Connecting leads that are run underground shall be run in a conduit of insulating material.
- Care shall 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.
- Crossings with overhead cables shall be avoided wherever possible. If such a crossing cannot be avoided, it shall be made underneath the power line and as nearly as possible at right angles to it.
- If connecting leads and electric fences are installed near an overhead power line the clearances shall be:
 1. **Power Line Voltage:** Under 1000 volts - **Clearance:** 3 Metres
 2. **Power Line Voltage:** 1000 - 33,000 volts - **Clearance:** 4 Metres
 3. **Power Line Voltage:** Over 33,000 volts - **Clearance:** 8 Metres
- If connecting leads and electric fence wires are installed near an overhead power line, their height above ground shall not exceed 2m. This height applies either side of the orthogonal projection of the outermost conductors of the power line on the ground surface, for a distance of - 2m for power lines not exceeding 1000V - 15m for power lines exceeding 1000V.
- A distance of 10m shall be maintained between the energiser and any other earth system such as the household supply system protective earth or the telecom system earth.
- A warning sign as described earlier, shall be fitted to every point where persons may gain ready access to the conductors.
- Where an electric animal fence crosses a public pathway, a non-electrified gate shall be incorporated in the electric 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 as described earlier.

Please retain instructions for future reference.