

# Fence Scout

(Fault Finder)



## HOW IT WORKS

Current flows through the path of least resistance. If the fence has a short-circuit, more current will flow. Large flows of current load the energizer and fence, causing lower voltage readings.

Use the Fence Scout to detect where the current is flowing, and locate the current 'leaks' in the fence system. Fixing the leaks raises the voltage in the fence, giving it more shock power.

## READING THE DISPLAY

An arrow shows the direction of current flow for currents over 1 amp (1 A).

Follow the current flow around the fence using the current direction arrows. A large drop in the reading indicates that you have gone past a fault.

The last current reading will be displayed briefly in the top right of the screen before changing to the fence voltage.

## VOLTAGE PROBE





Press the voltage probe against an energizer terminal to view the voltage.

Note, when used in close proximity to an energizer or cell phone, the current reading may be incorrect.

## SOUND

When the sound is turned on, the Fence Scout will beep at every fence pulse. The number of beeps and the pitch indicate the size of the current pulse. This can be particularly useful when measuring the currents in different branches at a junction point and when not able to see the display.

To switch the audio current indicator on or off:

1. Move the Fence Scout well away from the fence so that no fence pulse can be detected.
2. Press and hold . Either **kV+** or **kV-** will be displayed. After 10 seconds the Fence Scout will beep and  will change. Release  immediately after  changes.

## FIRST-TIME SETUP

The Fence Scout needs to be set for either positive **kV+** or negative **kV-** polarity voltage pulses from the energizer.

1. Go close to where the energizer leadout wires connect to the main fence.
2. Hook the Fence Scout wire location slot onto an un-insulated section of the live leadout wire and press ①.

If the current direction arrow points away from the energizer the polarity setting is correct and no further adjustment is required.

If the current direction arrow points back towards the energizer then the polarity setting of the Fence Scout must be changed.

3. Do this by first moving the Fence Scout away from the fence so that no fence pulse can be detected.
4. Press and hold ①. Either **kV+** or **kV-** will be displayed. After 10 seconds the Fence Scout will beep and 🎵 will change. After 5 more seconds, another beep and **kV+** or **kV-** will change. (The 🎵 will also reset to what it was.)
5. Hold the wire location slot onto the fence wire and press ①. The current direction arrow will now point away from the energizer.

For another fence that is powered by a different type of energizer, you must check the polarity again.

## USING THE FENCE SCOUT

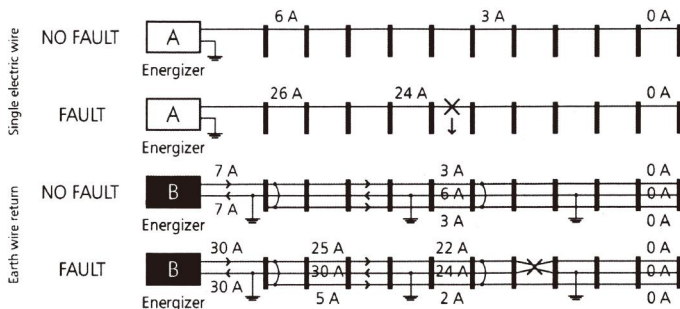
1. Start close to where the energizer leadout wires connect to the fence, and hook the wire location slot onto the fence wire.
2. Keep a firm contact and press ①.
3. Note the current reading.
4. Work down the fence line and take readings at regular intervals and at any junction points. The previous current reading shows briefly in the top right of the screen for comparison. At a junction, follow the branch with the abnormally high or low reading.

After using the Fence Scout several times, you will come to know the normal current and voltage readings around the farm.

5. If the current reading falls suddenly along a fence branch, there is probably a fault between this and the last reading. Retrace to find the fault.


Current readings higher than normal indicate fence short-circuits. Lower than normal readings may mean a poor connection or fence break.

On an earth wire return fence (example B below), readings taken on the earth wire show the current going back to the energizer at low voltage.



## BATTERY

When  flashes, the battery in the Fence Scout will soon need replacing.

When  displays, the battery is flat and needs replacing with a new 9 V battery.

Replacing the battery

1. Remove all 5 screws from the case back.
2. Unclip the old battery and replace with a new 9 V battery.
3. Replace the case back and all 5 screws, taking care not to trap the battery leads under the screws.

## CARE

Do not leave the Fence Scout in direct sunlight like on a vehicle dashboard.

Clean the Fence Scout only with a damp cloth.

If the Fence Scout gets wet, wipe it dry and place face down to allow any water to run out of the speaker grill. The Fence Scout is water resistant and should require no further attention.