

LL Electronics
103 N. Prairieview Rd.
P.O. Box 420
Mahomet IL, 61853
www.Radiotracking.com

LL Electronics, Smart Collar 1000

Welcome to the Smart Collar 1000. The SC1000 is loaded with sophisticated electronics but is very simple to understand and use. With user serviceable parts such as the antenna and battery you should almost never have to send it in for repair, and its high output while using minimal power will help ensure that you aren't replacing the batteries constantly. In fact the most you should ever have to replace batteries is about once per month, and that's if you never turn the collar off! We thank you for your purchase and we are sure that you will enjoy this unit for many years.

Replacing the Battery

To insert a new battery you must use a coin or screwdriver on the slotted cap on the end of the unit. Turn it counter clockwise to unscrew it and remove it from the module. Now you may insert a ½ AA Lithium Battery *positive end first* into the tube. Replace the cap and tighten, the spring ensures good contact with the battery and may not work without it. Note also the Rubber O-Ring on the cap above the threads, this is to seal the battery chamber from moisture, if this O-ring is absent then you should replace it as soon as possible or risk corrosion in the battery chamber.



Operation of the SC1000

To turn on the SC1000 remove the magnet from the magnet channel while a battery is in the unit. When you first turn on the SC1000 the LED's are enabled and it will function for over 1000 hours on a fresh battery. The LED's on the SC1000 flash at the same rate the collar transmits pulses, roughly once per second. Flashing LED's means that the SC1000 will have much better battery life, unlike other units that run the LED's continuously. If you would like to operate the SC1000 without the LED's then simply hold a magnet over the rear LED for about 1 to 2 seconds. When you do this the LED's will blink twice and the SC1000 will turn off the LED's, it will then transmit signals only. In this Transmit only mode the SC1000 will function for 2000 hours or more on a fresh battery. To turn the unit back off, replace the magnet within the magnet channel or you may simply remove the battery from the unit.

Low Battery Indication

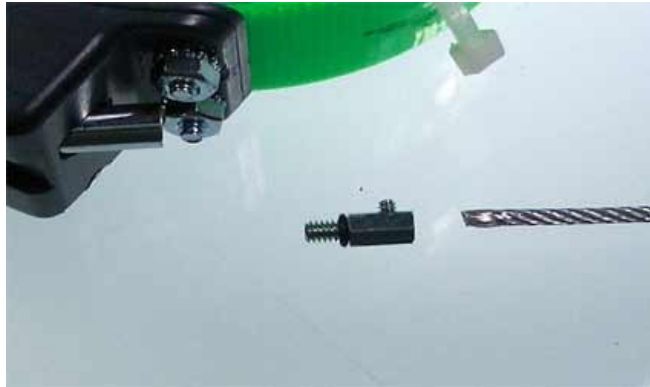
The SC1000 is able to test its own battery and will go into a low battery mode when it is detected that the battery is low (at approximately 2.9 volts). When operating in low battery mode the SC1000 will slow its pulse rate and do a double pulse every third pulse. If the LED's were left switched on for use then the unit will flash the LED once during every double pulse. The SC1000 will also not indicate treeing (tree switch is optional) during low battery mode. This all lengthens battery life so that if your dog has gone missing it will give you as much extra time as possible to find them, even on a low battery.

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Replacing the Antenna

Replacing the antenna on the SC1000 is a quick and easy process.

1. Cut the cable tie holding the antenna up against the collar and then unscrew the antenna from the module.
2. Remove any heat shrink that may be present on the base of the antenna and the screw stud.
3. Loosen the set screw holding the antenna into the Screw Stud.
4. Replace the antenna with any ¼ inch diameter metal cable (preferably corrosion resistant)
5. Repeat steps 1-3 in reverse order.



Note the rubber o-ring on the screw stud. This helps to seal moisture out of the threads and also helps to lock the screw stud in place when tightened.

Antenna cable lengths and frequencies:

Frequency	Cable Length
216-219 MHz	13 inches
155-173 MHz	16 inches

New antennas can be ordered from LL Electronics at any time as well, The antennas will be cut to exact lengths and properly heat shrunk and coated to guard against premature damage or corrosion.

Storage procedures

When storing the collar it is a good idea to remove the batteries to help avoid any unforeseen corrosion within the battery housing. This also helps to ensure that, should that magnet fall off, that the battery will not run down unexpectedly. If storing for short periods of time it is not necessary to remove the battery, just be sure that the magnet is securely in place and check the condition of the rubber band holding the magnet in place. Be sure not to store in extreme heat or cold for extended periods of time.

Do not:

Leave in dash of car or truck in direct sunlight for extended hours.

Leave on dog especially when other dogs are present, Dogs have been known to chew on the antenna and housing causing unnecessary damage.