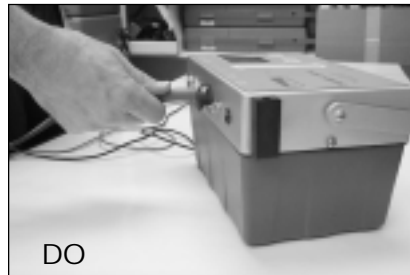


TIP 1

Wear and Tear of Cables

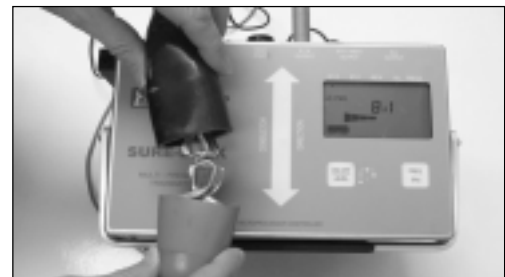
When unplugging the cable from the transmitter, remember to hold the cable by the jack or plug where it is meant to be held, don't pull the cable out by the cord. Many times when locating equipment is sent in for repair, the equipment is fine, the cables are the problem. This is good advice for any electronic equipment.



TIP 2

Cable Integrity Check

Do this in Low Power only. Set Transmitter on Low Power. Plug in the conductive attachment cable (leads). The reading on the transmitter "power indicator" will go down to 1 bar with leads plugged in. Touch the red (conductor) and black (ground) leads together, the indicator should read 4 bars. This verifies that you have good cables. If the bar reading does not increase, your cables are not making a good connection. This can be done on the Sure-Lock All Pro, Distance Pro or LS-990. Note: Do not try this on High power.



TIP 3

Grounding with Plunger Bar

You may encounter a situation where you are unable to get a good ground because the soil is too compact, dry, hard, frozen or there is only pavement and concrete in the area. In these instances, the L-shaped grounding rods will not help. A good solution is to carry a Heath Plunger Bar. This tool consists of a forty inch steel rod with an insulated handle which is resistant up to 10,000 volts of electricity. The Plunger Bar will allow you to easily negotiate any hard surface by hammering through the ground comfortably. If the soil conditions are bone dry, you may have to pour some water on the ground in order to increase the conductivity of the soil. Heath manufactures two different styles of Plunger Bars: A Heavy Duty Plunger Bar which is primarily used for the gas industry to perform bar hole testing and a Utility Plunger Bar which is a lighter version designed for the locating technician. Remember, a proper ground is important because the Signal Power Indicator (SPI) or signal strength is a direct correlation to the type of conductor you are hooked up to and the conditions of your ground.



Temporary insulated ground for utility vehicle