

# **Using the Cable Locators & Signal Generators**

- 14. If the signal generator is laid on its side with the loudspeaker facing up, the generator signal is spread over a wider area into all pipes and cables within the
- 15. The signal can also be induced into underground electrical systems by (for example) placing the signal generator, in the induction mode, against a street
- 16. The third mode is connection, should be used instead of induction mode whenever possible.
- 17. Plug one end of the lead into the (signal) generator, and fasten the alligator clip or magnet on the other end of the pipe you want to locate.
- 18. Plug the long ground (earth) lead into jack socket, the alligator clip on the other end is fastened to the metal stake, which has been driven into the ground.
- 19. Check that the signal has been successfully applied to the pipe by detaching and re-attaching the alligator clip to the pipe. The sound from the signal generator loudspeaker will distinctly change tone.

- 20. Now use the cable locator to locate the signal, and the pipe. Use marker paint to mark the location and direction of the pipe.
- 21. This is the mode to use whenever you attach a cable from the signal generator to the pipe located.

#### Metal cover locator

- 22. Most signal generators can also be used as a locator. They can locate metal box covers and metal manhole covers.
- 23. Switch to this mode and adjust the tuning control.
- 24. Follow the instructions in the instruction booklet or printed on the side of the signal generator.

#### **USING THE EQUIPMENT**

- Wear your protective equipment as required by site rules.
- If your equipment does not work properly do not attempt to repair it. Contact the hire
- You may want to read this leaflet again. Please keep it until vou finish work

#### Please keep this leaflet safely as it may be required for future reference







2450 Regents Court

The Crescent











©Copyright Hire Association Europe April 2011

### Any unauthorised reproduction – manually or electronically – is STRICTLY prohibited

bibe:

to mark the location and direction on the and ineretore ine pipe. Use marker paint 13. Use the cable locator to find the signal, barr or the pipe located. qırectiy above, and in line with, a known

only, place the signal generator upright, 12. For selective induction, i.e. one pipe anything external.

connecting the signal generators to mode there should be no wires or cables 11. The second mode is induction. In this or batteries will quickly discharge.

the signal generator off when not in use, 10. The first mode is OFF. You must switch

selected by the operation of one function to be picked up by the cable locator. On most signal generators the modes are in each mode you are generating a signal rutee or more signal modes, riemember The signal generator will produce up to

#### sapow lengis

ectrical wires weather they are Do not connect the alligator clips to any is where you plug in the earth lead.

cables to carry the signal to the pipe via an alligator clip or clamp. Another socket the signal generator. One is the signal socket allowing you to plug in various There should be at least two sockets on

#### company.

sounds damaged - contact the hire Check the loudspeaker, if it looks these positions.

ance you understand when to use each of it moves to all the marked positions. Mai Locate the function switch and check that

the battery compartment. Switch off to save the batteries.

- Change the batteries, and close and lock
- may be a spare battery pack in space correct number of batteries in use, there compartment. Make sure there are the oben the gug there is no bleep, change the batteries.
- bleep tells you that batteries are good. If Find the controls and learn how they work, switch and listen for the audible bless the group that batteries are good. It use it - contact the hire company.
- damaged or appears to be raury, do not Check your signal generator. If it looks

#### SIGNAL GENERATOR you have located.

mark the location and direction of the pipe 12. Spray marker paint on the ground, to signais you near, before you start using it. r works, and how to interpret the 14. Make sure you understand how the cable

when switched on; direct interference will - meter radius of the signal generator

13. Do not operate the cable locator within a now to use it correctly. the body of the locator, in order to learn

check that it is working. Read the operating instructions, usually printed on 12. There should be a sensitivity control: (see the section signal generator).

you need the signal generator to produce the signal for the cable locator to detect is for signal generator mode, in this mode

## ЭŲ pattery

- 11. The other position on the function switch
- nzed without the signal generator. 10. In these two modes, the cable locator is
- frequencies (Very low frequency) from distant radio, or other VLF transmitters. nieu own but are resonaung certain radio ibes and cables that have no energy of Another position is radio mode, which enables the cable locator to locate LONG.

suergised power cable to pick up which enables the cable locator to locate energised power cables. It will find other pipes and cables, which are near enough One of the positions is power mode, oberation is similar.

have electronic function controls: these positions. Some cable locators sure you understand when to use each of operates, usually to three positions. Make Find and check that the function switch your iouaspeaker.

your ear on noisy sites. Find and check loudspeakers that can be held close to Most locators detachable рауе sud lock the battery compartment.

Change the batteries, and carefully close provided.

way be a spare battery pack in space compartment. Make sure there are the correct numbers of batteries in use. There guq uədo change the batteries.

batteries are good. If there is no bleep,

# **Cable Locators & Signal Generators**

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

#### It is important to read all of this leaflet BEFORE you use the cable locator and signal generator

1415 Safety Guidance

- 1. DO NOT connect any part of the signal generator to uninsulated live conductors. If you plan to locate live conductors with the aid of the signal generator, read all of the operating instructions supplied. If in doubt seek competent advice.
- This equipment is otherwise safe to use on un-energised cables or on metal pipes and conduits, or on non - metallic pipes with trace wires.
- Incorrect use of equipment, or incorrect interpretation of its findings, may result in accidentally cutting through a services pipe or cable with serious results
- Take the time to ensure that you fully understand the equipment and how to use it properly.
- The cable locator by itself is designed to locate buried cables and other conductors, allowing you to locate or avoid them.
- The signals generator is designed to send a signal through buried cables and pipes that are 'switched off' or not connected. This enables the cable locator to easily detect them.
- Personal protective equipment is not needed to operate the cable and signal generators, but site conditions may dictate that you wear: Safety boots EN345 OR BS1870/4972; Safety helmet EN397 or BS5240.
- This equipment must not be used by minors, or by anyone under the influence of drugs or
- This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.













Every effort has been made by HAE/EHA to ensure that the information given in this document and supporting materia eading. HAE/EHA cannot accept responsibility for any loss or liability pero of any such document/material. Only Acts of Parliament and Statutory Ins rom the use of any such document/material. Only Acts of Parliament and Statu-have the force of law and only the courts can authoritatively interpret the law.

44 (0) 121 380 4600 44 (0) 121 333 4109

**BAY 788 Iludilos** The Crescent Birmingham Business Park noo sinegen uch



- 10r the audible bieep that tells you that the Squeeze the trigger on and off and listen nse it - contact the hire company.
- damaged or appears to be faulty, do not Check your cable locator. If it looks

locator should be stored sately when not such. It should not be dropped, thrown on the ground, or left lying around. The cable instrument, and should be treated as s brecision The cable locator

#### CABLE LOCATOR

also need to wear appropriate personal protective equipment. Anybody who is working near to you will

afety helmet (EN397 or BS5240) at all On a construction site you must wear a BS1870/4972).

You must wear safety boots (EN345 or require a nigner level of protection.

environments on certain sites may equipment (ppe) are the minimum that should be worn. Particular jobs or following items of personal protective site regulations may dictate that the cable locator and signal generator but ednibment is required to operate the No special personal protective

#### **OPERATORS**

near who could distract you. clear and safe and that there is no-on Make sure that your work environment is

on site, and in all-weather condition. waterproof, they can be used anywhere generator are battery powered and The cable locator and the signal

> **MORK ENVIRONMENT** Before Starting Work







