

- UK Zero Harm Events Calendar Q2
- May 2016

Key Focus Areas:

- To ensure all teams are issued with all the correct attachments with the CAT and Genny and that these are all calibrated and in date
- To ensure when carrying out a CAT and Genny scan of the work area prior to excavating, all the following methods are used:
 - Power
 - Radio
 - Genny on induction and direct connection
 - Avoidance (CAT4 only)
 - Strike Alert
 - Small Diameter Cable Location (CAT 4)





Cat and Genny Attachments

- Signal Clamp
- Live Plug Connector
- Direct Connection Cables
- Earth Spike
- Magnet
- Spare Batteries





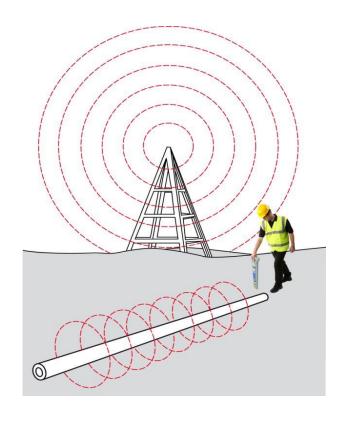
Power Mode:

- Power Mode detects signals originating from power transmission networks.
- These signals may be found on any pipe or cable, not just power cables.
- Some power cables DO NOT radiate detectable power signals.



Radio Mode:

 Radio Mode detects radio signals originating from distant radio transmitters as they travel along underground pipes and cables.



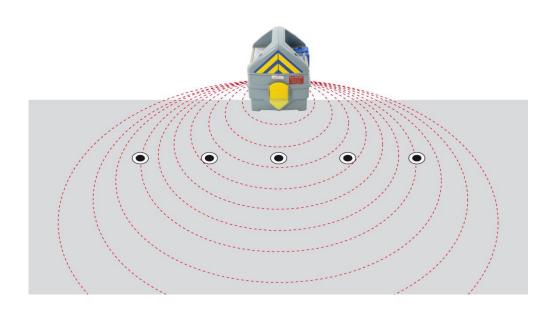
Active Locating:

 Active locate is when you use CAT receiver and Genny



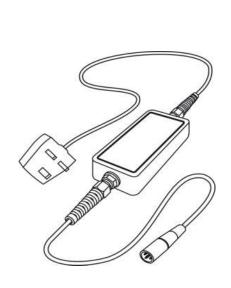
Induction Mode:

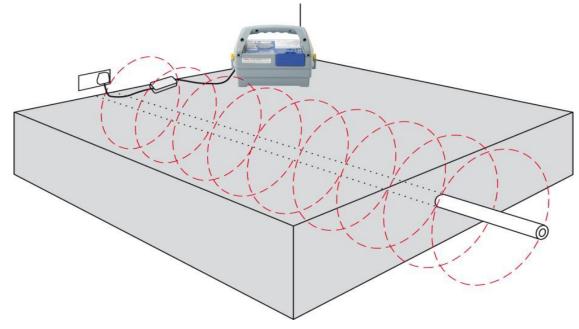
 Induction mode induces Genny signal onto buried services



Live Plug Connection:

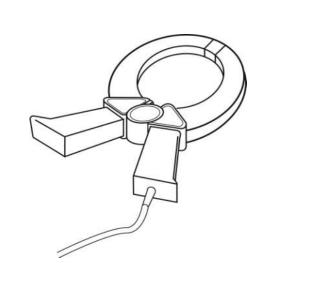
 The plug connector injects the Genny signal directly into a live mains socket and enables the incoming supply cable to be located

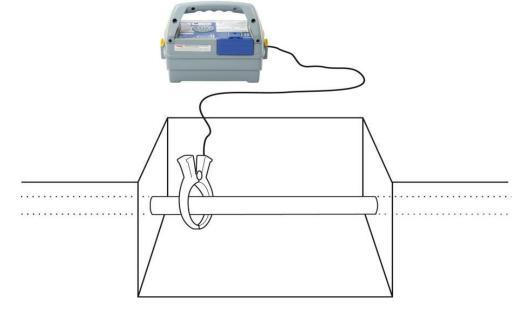




Signal Clamp Connection:

 The signal clamp applies the Genny signal without the need for an earth connection





Direct Connection:

- Single ended connection
- Connect Leads to metallic object
- With crocodile clip or magnet to induce a signal.



Avoidance Mode (CAT 4):

- Scans in all three modes
 - Power
 - > Radio
 - Genny
- An initial sweep using Avoidance Mode is recommended, followed by detailed scans using the other modes.

Strike Alert:

- Warns the operator of shallow pipes and cables.
- When a shallow cable or pipe is detected in Power, Genny or Avoidance Mode, Strike Alert flashes asterix and sounds a distinctive warbling audio tone.
- Strike Alert is not activated when tracing Radio signals.

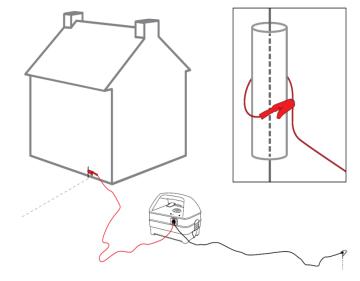
Small diameter cable location (Cat 4 Only):

- Clip the red lead directly on the cable insulation.
- Or wrap the red lead around and clip it back onto itself.

Small diameter frequency is a different audio tone to the

standard Genny signal

No change of tone on connection





Lets Talk:

Q1. In power mode will the C.A.T' look for electric signals from cables?

True or False

A1. False - (They look for magnetic fields)



Lets Talk:

Q2. Will the C.A.T find all metallic conductors in power mode?

True or False

A1. False - (For balanced cables, pot ended cables, cables with no current e.g. street lights). These will require Radio and Genny modes.



Lets Talk:

Q3. Will a C.A.T allow you to locate cables?

True or False

A1. False – (They give an induction). Trial holes locate.

