



CS125 Drain Tracer KIT MK3 OPERATING INSTRUCTIONS



GENERAL

Drain Tracer MK3 comprises a transmitter module which is coupled to the drain rod and a receiver which is used above ground to locate and follow the transmitter below ground at a distance of up to 16 feet (in ideal conditions). The transmitter produces a vertical radio pulse which is converted to an audio 'bleep' by the directional receiver along with a visible LED depth display. The drain rod can be rotated and the signal at the receiver remains at a constant volume because of the patented rotating transmitter module. Drain Tracer is thus extremely accurate in location.

FITTING RECEIVER BATTERY Remove rear cover and insert the battery as shown on the label inside the battery compartment (PP3 Type).

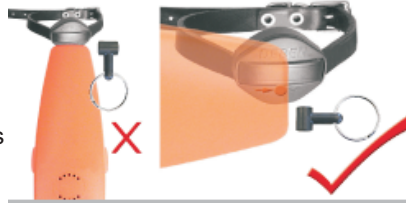
FITTING TRANSMITTER BATTERIES: Unscrew battery cover and insert batteries as shown.

Ensure that the transmitter is switched off after use.



TURNING THE TRANSMITTER ON & OFF

- The transmitter is switched on and off by using a magnet in the receiver or in the key ring.
- Turn the 'Pin Pointer' control fully clockwise, switch the receiver on so that you can tell when the transmitter turns on (and off).
- Line up the dot and arrow on both the receiver and transmitter, as shown, and touch the transmitter for about 1 second (to turn off repeat this step).



1. Unscrew the end cap from the transmitter module and remove the transmitter.
2. Twist the lid of the transmitter anti-clockwise to open it. Remove the old batteries.
3. Insert the two new batteries, as shown, with the "+" side of the batteries uppermost.
4. Check that the rubber O ring seal is in good condition then screw the lid back on to the transmitter base. Tighten by hand until the two parts are lined up with each other with no gap between them.
5. Test that the transmitter is working by switching on the receiver, then using the magnet to turn on the transmitter. If the batteries are inserted incorrectly no harm will come to the unit but it will not work.

USING THE DRAIN TRACER

Secure the Drain Tracer transmitter module to the end of the drain rod. As the drain rod is pushed along the drain, the transmitter module can be followed by holding the receiver above ground.

There are two modes of operation on the receiver – Searching and Locating.

Searching - When a signal from the transmitter is received the receiver emits 'pips'. The pitch of these pips increases if you point the receiver towards the transmitter, and goes higher still as you get closer to it.

To start the search, switch to the 16 (search) range and move over the likely area until you hear the pips. If the pitch starts to go down rather than up, stop where you are and wave the receiver left and right and up and down until you find the highest pitch, then move in that direction. When you have found the best horizontal direction by moving it left and right, rotate the receiver to point at the ground and move around to obtain the highest pitch. With a bit of practice you will be able to place the receiver directly above the transmitter underground.



Point the receiver to where you think the transmitter is below ground and rotate left & right and up & down to get the highest pitch. Adjust the 'Pin pointer' sound control to limit the sound 'pips' to the location area.

On the '16' (search) scale the receiver will detect the transmitter up to about 16 feet away (in ideal conditions). The LED display gives you an idea of how far away you are.

Locating - When the distance drops below 8 feet, switch to the '8' (locate) scale for precise location the transmitter.

When you are directly above the transmitter the LED display shows how far away the transmitter is. The '8-0.5' scale will show distance to within 6" of the transmitter. This reading can be affected slightly by the presence of metal, by local interference and by the nature of the soil, so the distances indicated should be taken as a guide.

The 'Pin pointer' control (rear knob) limits the sound 'pips' to a position close to the transmitting collar. The LED display indicates distance which does not vary with use of the 'Pin pointer' sound control.

After use - Always switch OFF the transmitter and turn OFF the receiver. Keep the inside of the transmitting module clean and dry to ensure the transmitter rotates smoothly.

Caution - The equipment does not function in metallic pipes. Accurate location may be difficult where electrical cables or metallic services may deflect the transmitting signal.