



CS125 Drain Tracer™ KIT

OPERATING INSTRUCTIONS



GENERAL

Drain Tracer™ 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 20 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.

KIT CONTENTS

1 x Carrying case	1 x PP3 9v battery
1 x Transmitter module	4 x 393 batteries (2 spare)
1 x Receiver	2 x Transmitter O rings (spares)
1 x Brief operating instructions	1 x Full operating instructions

IMPORTANT

CHANGE THE TRANSMITTER BATTERIES AFTER 35 HOURS USE
ENSURE THAT THE TRANSMITTER BATTERY COMPARTMENT IS CLEAN AND DRY
CAREFULLY READ THESE INSTRUCTIONS BEFORE USE.

PREPARATION - BATTERY INSERTION

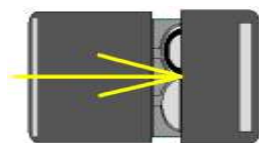
RECEIVER The receiver is powered by a 9 volt PP3 type battery and will last approximately 30 hours. If preferred a rechargeable PP3 battery can be used.

Fitting battery Remove the battery cover and insert the battery as shown on the label inside the battery compartment. Replace the battery cover then switch the receiver on you should hear a short 'bleep' and the LED display should run from '1' to '10' on the 'LOCATE' scale and then go out. If the battery is inserted incorrectly no harm will come to the unit but it will not work.

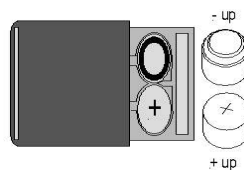
TRANSMITTER The transmitter is powered by two 393 batteries and should last approximately 40 hours. DO NOT use zinc air types. Other popular equivalents are: V393, SR48, RW48, R393/15 and SR48W.

Fitting batteries:

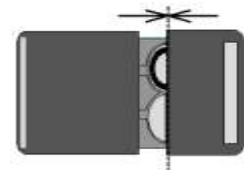
Note: Remove batteries after use. It is recommended that the batteries are replaced after 35 hours or 5 seven hour days of use.



Opening the case



Battery position



Temporary off position

Unscrew the endcap from the transmitter module and remove the transmitter (Note: Bull nose pliers can be used to aid removal of a stubborn endcap).

Hold the transmitter so you can see the front, push a fingernail or similar tool into the front slot to unlatch the battery cover from the case, then slide it sideways to expose the battery compartment.

Insert the two 393 cells as shown, with the domed (-) terminal facing **up** in the top hole and the flat (+) side facing **up** in the bottom one. Hold the batteries down in their holes and push the cover to close over them and click into its locked position. The transmitter is now working.

Place the transmitter back into the housing **short end of the transmitter rod first** and re-fit the endcap tighten the endcap firmly.

You can turn the transmitter off temporarily by sliding the battery cover back so that it just covers half of the cells, but to switch it off safely we recommend that you remove and store the cells separately.

Test that the transmitter is working by switching on the receiver and placing within a few feet of the transmitter. If the batteries are inserted incorrectly no harm will come to the unit but it will not work.

CS125 Drain Tracer™ KIT - FULL OPERATING INSTRUCTIONS (Cont...)

SPARE PARTS

All parts are available from UK SYSTEMS INC LTD please contact for details.

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 20 (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.

On the '20' (search) scale the receiver will detect the transmitter up to about 20 feet away (in ideal conditions). The LED display gives you an idea of how far away you are.

Locating - When the distance drops below 10 feet, switch to the '10' (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 '10-1' scale will show distance to within 1 foot 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.

After use - Always remove the batteries from 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.

GUARANTEE

Drain Tracer™ is guaranteed against manufacturing defect for 12 months from the date of purchase, Batteries are not guaranteed.

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