CUES

accupoint
PRECISION LOCATING SYSTEM

Sewer and storm industry sonde and line locator kits

User Guide

SPX

Preface

About this guide

CAUTION: This guide provides basic operating instructions for the ACCUPOINT MS611 locator and MS620 transmitter. It also contains important safety information and guidelines and as such should be read in its entirety before attempting to operate the ACCUPOINT locator and transmitter.

This guide is intended as a quick reference guide only. For detailed instructions, including the use of accessories, help with eCert™, please refer to the ACCUPOINT locator Operation Manual and ACCUPOINT Manager™ Online manuals, which are available for download from **www.cuesinc.com**.

Certificates of conformity for the ACCUPOINT locators and transmitter ranges can be found at **www.cuesinc.com**.

⚠ **WARNING! Direct connection to live conductors is POTENTIALLY LETHAL. Direct connections to live conductors should be attempted by fully qualified personnel only using the relevant products that allow connections to energized lines.**

⚠ **WARNING! The transmitter is capable of outputting potentially lethal voltages. Take care when applying signals to any pipe or cable and be sure to notify other technicians who may be working on the line.**

⚠ **WARNING! Reduce audio level before using headphones to avoid damaging your hearing.**

⚠ **WARNING! This equipment is NOT approved for use in areas where hazardous gases may be present.**

⚠ **WARNING! When using the transmitter, switch off the unit and disconnect cables before removing the battery pack.**

⚠ **WARNING! The ACCUPOINT MS611 locator will detect most buried conductors but there are some objects that do not radiate any detectable signal. The ACCUPOINT MS611, or any other electromagnetic locator, cannot detect these objects so proceed with caution. There are also some live cables which the ACCUPOINT MS611 will not be able to detect in Power mode. The ACCUPOINT MS611 does not indicate whether a signal is from a single cable or from several in close proximity.**

⚠ **WARNING! Batteries can get hot after prolonged use at full output power. Take care while replacing or handling batteries.**

⚠ **WARNING! Only use charging equipment provided by CUES. The use of alternative chargers may cause a safety hazard and/or reduce the life of the battery.**

CAUTION: Do not let your battery completely discharge as this may reduce its life or damage it permanently. If you are not using your equipment for a long period do charge them at least once a month.

⚠ **WARNING! Batteries can get hot after prolonged use at full output power. Take care while replacing or handling batteries.**

⚠ **WARNING! Do not tamper with, or attempt to disassemble the battery packs.**

CAUTION: If battery failure is suspected or if the battery shows any sign of discoloration/physical damage return the entire unit to an authorized repair center for investigation and repair. Local, national or IATA transport regulations may restrict the shipment of faulty batteries. Check with your courier for restrictions and best practice guidelines. Your local CUES representative will be able to direct you to our authorized repair centers.

NOTE: The charging temperature range is 0 to 45 °C, 32 to 113°F. Do not attempt to recharge your batteries outside this temperature range.

3 Year Extended Warranty

ACCUPOINT locators and transmitters are covered by a 1 year warranty as standard. Customers can extend their warranty period to a total of 3 years by registering their products within 3 months of purchase.

To register your product:

Visit **https://portal.radiodetection.com** to create your portal account* and use the Product page to register your locator or transmitter.

Visit **https://support.radiodetection.com** for instructions on how to create a portal account or register your product.

*A valid email address and mobile number are required.

eCert and Self-Test

The ACCUPOINT locator is safety equipment which should be regularly checked to ensure its correct operation.

eCert provides a thorough test of the ACCUPOINT's locating circuitry, and supplies a CUES Calibration Certificate when a positive test result is obtained.

To run an eCert, the locator should be connected to an internet-enabled PC on which the ACCUPOINT Manager software is installed.

Refer to the ACCUPOINT Manager operation manual for further details. Additional purchase may be required.

ACCUPOINT locators incorporate an Enhanced Self-Test feature. In addition to the typical checks for display and power functions, the ACCUPOINT MS611 locator applies test signals to its locating circuitry during a Self-Test to check accuracy and performance.

We recommend that a self-test is run at least weekly, or before each use.

ACCUPOINT MS611 locator

Locator features

1. Keypad.
2. LCD with auto backlight.
3. Haptic (vibration) feedback.
4. Speaker.
5. Battery compartment.
6. Accessory connector.
7. Headphone connector.
8. Swing alert system.
9. Optional Lithium-Ion battery pack.
10. USB port
    (inside battery compartment).

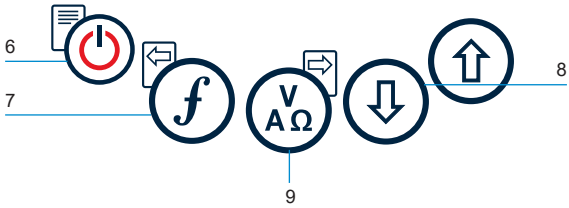
Locator keypad

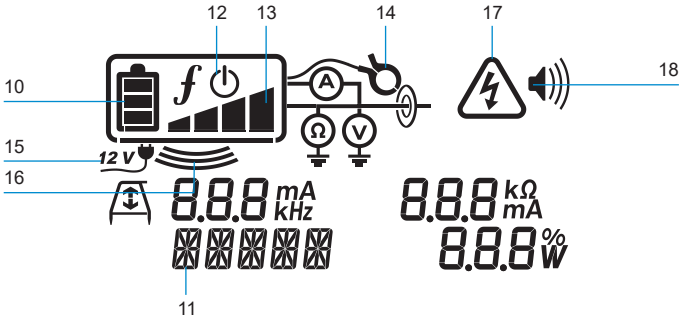
11. Power key.
12. Frequency key.
13. Up and down arrows.
14. Antenna key.

Locator screen icons

15. Signal strength bargraph with peak marker.
16. Signal strength readout.
17. Proportional Guidance arrows.
18. Battery level.
19. Sensitivity readout
20. Volume level.
21. Power Mode icon.
22. Accessory / Measurement icon.
23. Frequency / current / menu readout.
24. Antenna modes icon:
    Indicates antenna mode selection:
    Peak+™ / Guidance.
25. Sonde icon: Indicates that a sonde signal source is selected.
26. Line icon: Indicates that a line signal source is selected.
27. Compass: Shows the orientation of the located cable or sonde relative to the locator.
28. Depth readout.

MS620 transmitter





Transmitter features

1. Keypad.
2. LCD.
3. Removable accessory tray.
4. D-cell battery tray.
5. Optional Lithium-Ion battery pack.

Transmitter keypad

6. Power key.
7. Frequency key.
8. Up and down arrows.
9. Measure key.

Transmitter screen icons

10. Battery level indicator.
11. Operation mode readout.
12. Standby icon.
13. Output level indicator.
14. Clamp icon: Indicates when a signal clamp or other accessory is connected.
15. DC Power connected indicator.
16. Induction mode indicator.
17. Voltage warning indicator: Indicates that the transmitter is outputting potentially hazardous voltage levels.
18. Volume level indicator.

Keypad actions and shortcuts

Switch the locator or transmitter on by pressing the ⏻ key. Once powered up, the keys function as follows:

Locator keys

KEY	● SHORT PRESS	▬ LONG PRESS
⏻	Enter the menu.	Switch power off.
ƒ	Scroll through locate frequencies from low to high.	–
⌒	When using active frequencies: Toggles Peak+ and Guidance antenna modes. Power Mode: Scrolls through Power Filters™ for improved discrimination of parallel or strong power signals.	–
⇧ and ⇩	Increase and decrease gain. Accupoint automatically sets gain to mid-point when pressed.	Rapidly increase and decrease gain steps in 1dB increments.

Transmitter keys

KEY	● SHORT PRESS	▬ LONG PRESS
⏻	Enter the menu.	Switch Power off.
ƒ	Scroll through locate frequencies from low to high.	–
V A Ω	Take voltage and impedance measurements using the currently selected frequency.	Take voltage and impedance measurements at a standardized frequency.
⇧ and ⇩	Adjusts the output signal.	Select standby ⇩ / maximum standard power ⇧.

Tip: to scroll through frequencies from high to low, hold ƒ while pressing the ⇩ button (applies to both locators and transmitters).

Before you begin

IMPORTANT!
This guide is intended to be a quick reference guide. We recommend you read the full operation manual before you attempt to operate the ACCUPOINT locator.

First use

The ACCUPOINT locators and transmitters can be powered by D-cell alkaline batteries, D-cell NiMH batteries, or by an accessory Lithium-Ion (Li-Ion) battery pack.

To fit the D cell batteries in the locator, open the battery compartment and insert two D-Cell Alkaline or NiMH batteries, taking care to align the positive (+) and negative (-) terminals as indicated.

To fit the D cell batteries in the transmitter, unlatch the accessory tray. The battery compartment is located underneath the transmitter body. Use the turnkey to unlatch the battery compartment. Insert eight D-Cell Alkaline or NiMH batteries, taking care to align the positive (+) and negative (-) terminals as indicated.

Alternatively, you can power the transmitter from a mains or vehicle power source using a CUES supplied optional accessory adapter.

System setup

It is important that you set up the system according to regional / operational requirements and your personal preferences before you conduct your first survey. You can set the system up using the menus as described below.

Setting up your system

The ACCUPOINT locator and transmitter menus allow you to select or change system options. Once entered, the menu is navigated using the arrow keys. Navigation is consistent on both the transmitter and the locator. When in the menu, most on-screen icons will temporarily disappear and the menu options will appear in the bottom left-hand corner of the display. The right arrow enters a submenu and the left arrow returns to the previous menu.

Note that when browsing the locator menu, the ⓕ and ⓜ keys act as left and right arrows. When browsing the transmitter menu, the ⓕ and ⓥ keys act as left and right arrows.

To navigate menus:

1. Press the ⏻ key to enter the menu.
2. Use the ⇧ or ⇩ keys to scroll through the menu options.
3. Press the ⇨ key to enter the option's submenu.

4. Use the ⇧ or ⇩ keys to scroll through the submenu options.
5. Press the ⇦ key to confirm a selection and return to the previous menu.
6. Press the ⇦ key to return to the main operation screen.

NOTE: When you select an option and press the ⇦ key, the option will be enabled automatically.

Locator menu options

- VOL: Adjust the speaker volume from 0 (mute) to 5 (loudest).
- UNITS: Select metric or imperial units.
- LANG: Select menu language.
- POWER: Select local power network frequency: 50 or 60Hz.
- ANT: Enable or disable any antenna mode with the exception of Peak.
- FREQ: Enable or disable individual frequencies.
- ALERT: Enable or disable Strike*Alert*™.
- BATT: Set battery type: Alkaline or NiMH.
- ARROW: Select proportional Guidance arrows in Peak+ mode
- COMPA: Enable or disable display of the Compass feature.
- VALRT: Enable or disable the vibration feature.
- AUDIO: Select High or Low sound levels.
- SWING: Enable or disable Swing warning.
- INFO: Shows the software version, run a Self-Test, display the date of the most recent service recalibration (M CAL) or the most recent eCert calibration.

Transmitter menu options

- VOL: Adjust the speaker volume from 0 (mute) to 3 (loudest).
- FREQ: Enable or disable individual frequencies.
- BOOST: Boost transmitter output for a specified period of time (in minutes).
- LANG: Select menu language.
- BATT: Set battery type: ALK, NiMH and enable / disable Eco mode.
- MAX P: Set the transmitter to output its maximum wattage.
- MODEL: Match the transmitter setting to the model of your locator.
- MAX V: Set the output voltage to maximum (90V).
- INFO: Shows the software version

Examples of using the menu, selecting options and making changes:

Locator mains power frequency

To select the correct frequency (50 or 60Hz) for your country or region's power supply:

1. Press the ⏻ key to enter the menu.
2. Scroll to the POWER menu using the ⇧ or ⇩ keys.
3. Press the 〰 key to enter the POWER menu.
4. Use the ⇧ or ⇩ keys to select the correct mains frequency.
5. Press the ƒ key twice to accept your selection and return to the main operation screen.

Batteries

It is important to set the system to match the currently installed battery type to ensure optimal performance and correct battery level indication.

To set your battery type:

1. Press the ⏻ key to enter the menu.
2. Scroll to the BATT menu using the ⇧ or ⇩ arrows.
3. Press the 〰 key (on the locator) or the V/AΩ key (on the transmitter) to enter the BATT menu.
4. Scroll up or down to select the correct battery type (Alkaline or Nickel-metal Hydride).
5. Press the ƒ key twice to accept your selection and return to the main operation screen.

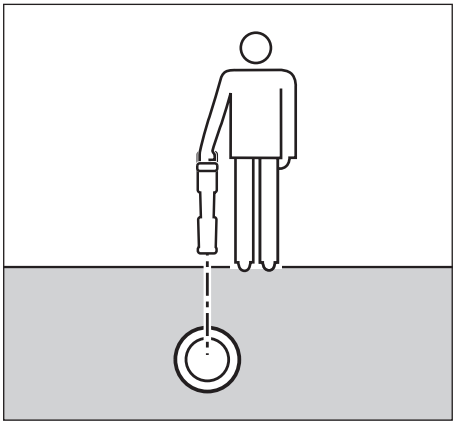
Transmitter Eco Mode

When using alkaline batteries, Eco mode can be selected to maximize run time. When Eco mode is selected the transmitter automatically reduces its maximum power output as battery levels run low. Eco mode is switched off by default. To Enable Eco Mode:

1. Press the ⏻ key to enter the menu.
2. Scroll to the BATT menu using the ⇧ or ⇩ arrows.
3. Press the V/AΩ key to enter the BATT menu.
4. Select the ALK Battery type using the ⇧ or ⇩ arrows.
5. Press the V/AΩ key to enter the ECO sub menu
6. Select ECO using the ⇧ or ⇩ arrows.
7. Press the ƒ key three times to accept your selection and return to the main operation screen.

Locating pipes and cables

The ACCUPOINT locator is designed to operate with the ‘blade’ of the locator perpendicular to the path of the cable or pipe being located.



Locating with active frequencies

Active frequencies are applied to the target pipe or cable using the transmitter, and provide the most effective way of tracing buried pipes or cables.

Generally speaking, it is better to use a low frequency on larger, low impedance utilities, and move to a higher frequency on smaller, high impedance utilities.

The lowest power setting required to trace the target utility should always be used to minimize the risk of false trails.

The transmitter can apply a signal using three different methods:

Direct connection

In direct connection, you connect the transmitter directly to the pipe or cable you wish to survey using the red Direct Connect lead supplied. The black lead is generally connected to earth using the supplied ground stake.

The transmitter will then apply a discrete signal to the line, which you can trace using the locator. This method provides the best signal on an individual line and enables the use of lower frequencies, which can be traced for longer distances.

⚠ WARNING! Direct connection to live conductors is POTENTIALLY LETHAL. Direct connections to live conductors should be attempted by fully qualified personnel only using the relevant products that allow connections to energized lines.

Induction

The transmitter is placed on the ground over or near the survey area. You select the appropriate frequency. The transmitter will then induce the signal indiscriminately to any nearby metallic conductor. In induction mode, using higher frequencies is generally recommended as they are induced more easily onto nearby conductors.

Transmitter clamp

An optional signal clamp can be placed around an insulated live wire or pipe up to 8.5" / 215mm in diameter to transfer the transmitter signal to the utility. This method of applying the transmitter signal is particularly useful on insulated live wires and removes the need to disconnect the supply to the cable.

⚠ WARNING! Do not clamp around uninsulated live conductors.

⚠ WARNING! Before applying or removing the clamp around a power cable ensure that the clamp is connected to the transmitter at all times.

Locating with passive frequencies

Passive frequency detection takes advantage of signals that are already present on buried metallic conductors. The ACCUPOINT supports Power Mode. You can detect these signals without the aid of the transmitter.

Power filters

ACCUPOINT locators allows operators to take advantage of the harmonic signals found on power networks. Once in Power Mode, press the key to switch out of CUES's sensitive Power Mode and scroll through five individual Power Filters. This enables operators to establish if a single large power signal comes from one source or from the presence of multiple cables. The different harmonic characteristics of the detected lines can then be used to trace and mark their route.

Additionally the use of an individual harmonic can allow you to locate power lines in situations where the total signal would otherwise be too large.

Locate modes

The ACCUPOINT offers 2 locate modes, each of which is designed for specific uses, depending on what task is being carried out.

To scroll between locate modes, press the key.

PEAK+: Choose to combine the accuracy of the Peak bargraph with Null arrows, which can indicate the presence of distortion, or with proportional Guidance arrows for rapid line tracing – switch between them by holding the key.

GUIDANCE: Proportional arrows and a ballistic 'needle' combine with audio left / right indication for rapidly tracing the general path of a buried utility.

Locating the pipe or cable

Having chosen the method of applying the transmitter signal to the pipe or cable, the locator is now ready to use.

NOTE: When the locator is positioned at a specific distance from the target line, the depth and current values will automatically display, although these values will not be accurate until the locator is directly over the target line and correctly orientated.

When directly over the target line, both depth and current readings will be at their minimum. This can be a very useful feature when attempting to pinpoint the target line.

NOTE: To display depth and current readings, the locator must be orientated in line with the target by using the compass and left / right arrows. The compass feature and left / right arrows in Figure 2 show the locator directly in line with the target.

Figure 1 shows the locator in Guidance Mode with the locator positioned to the left of the target line. In this position the Proportional Left arrow is displayed, indicating the direction in which the locator should be moved towards the target line. The target position indicator indicates the target positioned to the right of the locator and can be used to guide the locator towards the target line. The signal strength value will be displayed, indicating the strength of the signal from the target line. In this position the tone from the speaker of the locator will be continuous.

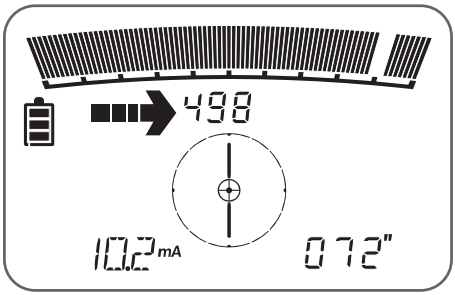


Figure 1

With the aid of the compass, the locator can be positioned in line with the target line enabling both depth and current readings to be displayed.

As the locator is moved towards the right, the tail on the proportional left arrow will reduce, the target position indicator will move from the right, towards the centre, the speaker tone will reduce and the numerical signal strength value will increase.

Use the proportional arrows, target position indicator and signal strength value to guide the locator directly over the target line.

Figure 2 shows the locator in Guidance Mode and directly over the target line. In this position the left and right arrow heads will be displayed simultaneously, target position indicator in the centre, the signal strength value at its maximum, speaker tone silent and both depth and current readings at their minimum.

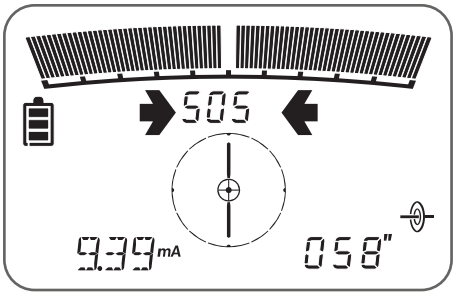


Figure 2

Figure 3 shows the locator in Guidance Mode and positioned to the right of the target line. In this position the Proportional Right arrow is displayed, indicating the direction in which the locator should be moved towards the target line. The target position indicator indicates the target positioned to the left of the locator and can be used to guide the locator towards the target line. The signal strength value will be displayed, indicating the strength of the signal from the target line. In this position the tone from the speaker of the locator will be pulsed.

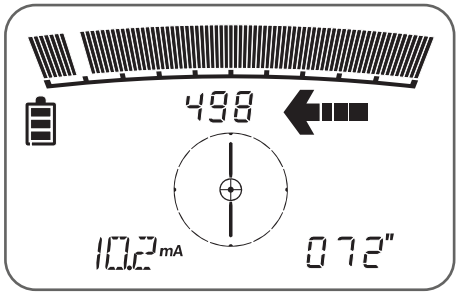


Figure 3

With the aid of the compass, the locator can be positioned in line with the target line enabling both depth and current readings to be displayed.

As the locator is moved towards the left, the tail on the proportional right arrow will reduce, the target position indicator will move from the left, towards the centre, the pulsing tone from the speaker will reduce and the numerical signal strength value will increase.

Use the proportional arrows, target position indicator and signal strength value to guide the locator directly over the target line.

With the locator powered up in guidance mode, a momentary press of the mode (f) key will change the mode of operation to power mode. In this mode, the bar graph signal strength indicator, numerical signal strength (%), numerical gain setting and depth (m / ft) are available. The proportional left/right arrows and target position indicator will not be available (Refer to Figure 4).

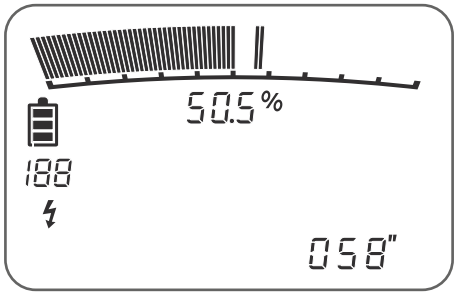


Figure 4

Depth, current and compass readouts

⚠ WARNING! Never use the depth measurement readout as a guide for mechanical or other digging activity. Always follow safe digging guidelines.

The ACCUPOINT locator can measure and display the utility depth, locate signal current and the relative orientation of the cable or pipe to the locator. This helps you to make sure that you are following the right cable or pipe, especially when other utilities are present.

The ACCUPOINT locator features TruDepth™, a feature that helps you to ensure the accuracy of your locates. The depth and current are automatically removed from the display when the locator is at an angle of more than 7.5° from the path of the cable or pipe being located, or when the locator determines that signal conditions are too poor for reliable measurements.

Using accessories

Sondes, Flexrods and FlexiTrace

Sondes are transmitters that are useful for tracing non-metallic pipes and sewer and storm pipelines. Battery powered sondes can be fixed to Flexrods to allow them to be pushed through pipes or conduits, and some are suitable for blowing through ductwork. Sondes integral to pipeline inspection systems are suitable for the location and assessment of sewer and storm pipeline systems during inspection.

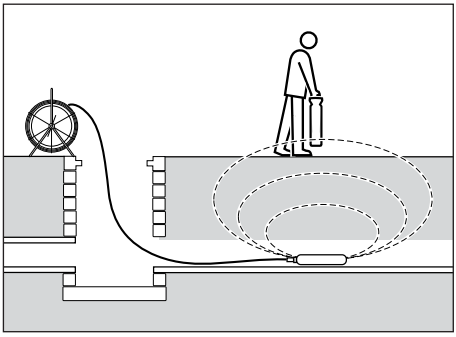
A FlexiTrace is a traceable fiberglass rod incorporating wire conductors with a sonde at the end. It is connected to the output of the transmitter and is typically used in small diameter, non-metallic pipes. The user has the option of locating the entire length of the cable or choosing to locate only the tip of the cable.

The FlexiTrace has a maximum power rating of 1W. When using the FlexiTrace with a ACCUPOINT MS620 transmitter, the output limit must be set to 1W in the MAX P menu and the output voltage limit set to LOW in the MAX V menu.

Locating pipes with a sonde

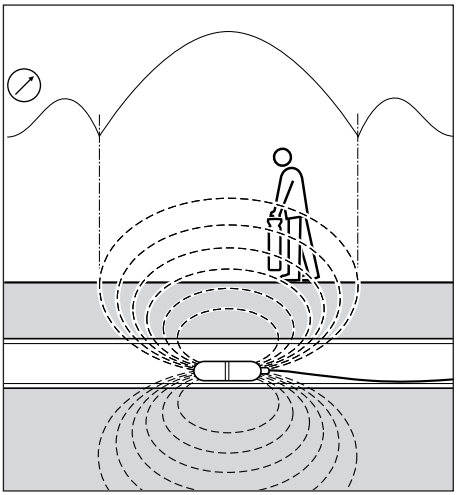
NOTE: The 'blade' of the locator must be in-line with the central axis of the sonde.

A new battery or a freshly recharged battery should be used at the beginning of each day and preferably at the start of a job. Check that the locator and sonde are working correctly.



A quick test for both sonde and locator is to position the sonde at ground level at a distance equal to its rated depth range from the locator. Point the locator at the sonde with its blade in-line with the sonde, and check that the bar graph on the locator displays more than 50% with the sensitivity of the locator set to maximum.

With the sonde in place at the survey location, hold the locator vertically and directly over the sonde's estimated position. Make sure the blade is in-line with the sonde. Adjust the sensitivity (gain) of the locator to give a bar graph display reading between 60% and 80%.



A sonde radiates a peak radio frequency field from the center of its axis with weaker signal (ghost) lobes at each side. Ghost lobe identification helps to confirm the accuracy of the peak (center) position. Move the locator a little way to one side and then along the axis of the sonde iteratively forwards and backwards to detect the ghost lobes. Reduce the sensitivity of the locator until the ghost lobes are no longer detected.

With the locator sensitivity set as desired, propel the sonde along three to four paces and stop.

Place the locator over the estimated position of the sonde:

1. Refer to Figure 1.
   Move the locator backwards and forwards with the blade in-line with the sonde. Stop when the locator display indicates a clear peak response.
2. Refer to Figure 2.
   Rotate the locator as if the blade were a pivot, stop when the display indicates a clear peak response.
3. Refer to Figure 3.
   Move the locator from side to side until the display indicates a clear peak response.
4. Repeat Steps 1 to 3 in smaller increments with the locator blade resting on or near the ground. The locator should now be directly above the sonde with the blade in line with the sonde. Now mark the position.
5. Propel the sonde a further three to four paces along the drain or duct and pinpoint and mark. Repeat this procedure along the route at similar intervals. It should only be necessary to change the locator sensitivity while tracing the sonde if there is a change in the depth of the drain or duct, or the distance between locator and sonde.

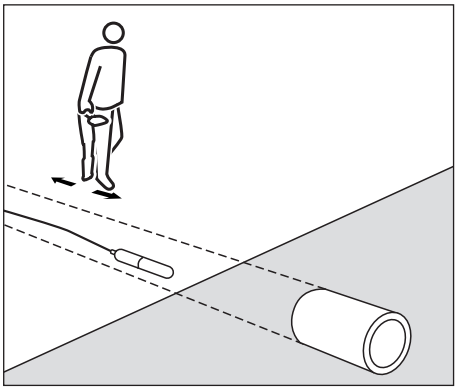


Figure1

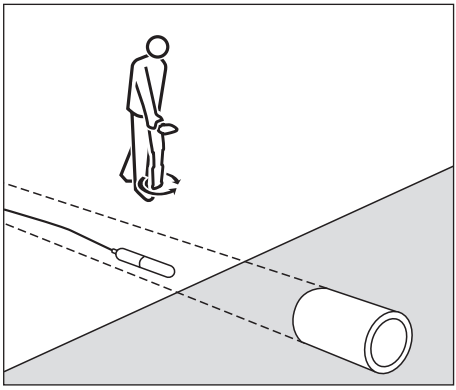


Figure2

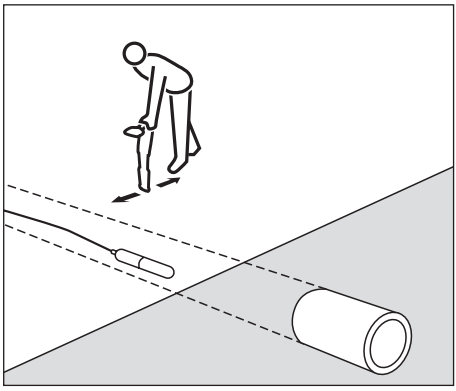


Figure3

Training

CUES provides training services for most CUES products. Our qualified instructors will train equipment operators or other personnel at your preferred location or at CUES headquarters. For more information go to **www.cuesinc.com** or contact your local CUES representative.

Care and maintenance

The ACCUPOINT locator and transmitter are robust, durable and weatherproof. However you can extend your equipment's life by following these care and maintenance guidelines.

General

Store the equipment in a clean and dry environment.

Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged.

Do not use this equipment when damaged or faulty.

Batteries and power supply

Only use the rechargeable battery packs, chargers and power supplies approved by CUES.

If not using rechargeable packs, use good quality Alkaline or NiMH batteries only. Batteries should be disposed of in accordance with your company's work practice, and / or any relevant laws or guidelines in your country.

Cleaning

⚠ WARNING! Do not attempt to clean this equipment when it is powered or connected to any power source, including batteries, adapters and live cables.

Ensure the equipment is clean and dry whenever possible.

Clean with a soft, moistened cloth. Do not use abrasive materials or chemicals as they may damage the casing, including the reflective labels. Do not use high pressure jets of water to clean the equipment.

If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant.

Software upgrades

From time to time, CUES may release software upgrades to enhance features and improve performance of the ACCUPOINT locator or transmitter. Software upgrades are free of charge and provided through the ACCUPOINT Manager Online PC software.

E-mail alerts and notification of new software releases are sent to all registered users. You can also check if your products are up-to-date or upgrade them by using the ACCUPOINT Manager Online software upgrade screen.

NOTE: To upgrade your product's software you need to have created an account using ACCUPOINT Manager Online and have a live internet connection. An optional Radiodetection power supply may be required to update your transmitter software.

Disassembly

Do not attempt to disassemble this equipment under any circumstances. The locator and transmitter contain no user serviceable parts.

Unauthorized disassembly will void the manufacturer's warranty, and may damage the equipment or reduce its performance.

Service and maintenance

Regularly check your equipment for correct operation by using the Self-Test function and eCert.

The locator and transmitter are designed so that they do not require regular recalibration. However, as with all safety equipment, it is recommended that they are serviced and calibrated at least once a year either at CUES or an approved repair center.

NOTE: Service by non-approved service centers may void the manufacturer's warranty.

CUES products, including this guide, are under continuous development and are subject to change without notice. Go to **www.cuesinc.com** or contact your local CUES representative for the latest information regarding the ACCUPOINT locator. or any CUES product.

Self-Test

ACCUPOINT locators incorporate an enhanced Self-Test feature. In addition to the typical checks for display and power functions, the ACCUPOINT applies test signals to it's locating circuitry during a Self-Test to check accuracy and performance. We recommend that a self-test is run at least weekly, or before each use.

Running a Self-Test

We recommend that a Self-Test is run at least weekly, or before each use. As the Self-Test tests the integrity of the locate circuity, it is important that it is carried out away from larger metallic object such as vehicles, or strong electrical signals. To run a Self-Test:

1. Press the ⏻ key to enter the menu.
2. Scroll to the INFO menu using the ⇧ or ⇩ arrows.
3. Press the ⌘ key to enter the INFO menu.
4. Select TEST using the ⇧ or ⇩ arrows.
5. Press the ⌘ key to select YES.
6. Press the ƒ key to begin the Self-Test.
7. Once the Self-Test is completed, the result (PASS or FAIL) will be displayed.
8. Restart the locator using the ⏻ key.

ACCUPOINT Manager Online PC Software

ACCUPOINT Manager Online is the ACCUPOINT locator system PC companion, and it allows you to manage and customize your locator. ACCUPOINT Manager Online is also used to retrieve and analyze survey and usage data, run an eCert calibration, and to perform software upgrades.

You can use ACCUPOINT Manager Online to register your products to obtain an extended warranty, setup your locator by performing a number of maintenance tasks such adjusting date and time, activating and de-activating active frequencies, or by setting-up functions like Strike*Alert*.

ACCUPOINT Manager Online is compatible with PCs running Microsoft Windows 64 bit operating system. To download ACCUPOINT Manager Online, go to **www.cuesinc.com.**

If you do not have internet access, or wish to receive ACCUPOINT Manager Online on a USB flash device contact your local CUES office or representative.

NOTE: (i)Contact CUES for availability of the ACCUPOINT Manager.

NOTE: eCert is not presently available for MS620 transmitter.

Visit **www.cuesinc.com**

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As the world's leading manufacturer of water, wastewater, and stormwater inspection equipment, CUES provides the necessary tools for both pipeline inspection and repair. For 50+ years, CUES has manufactured the most rugged and reliable pipeline inspection equipment in the industry.