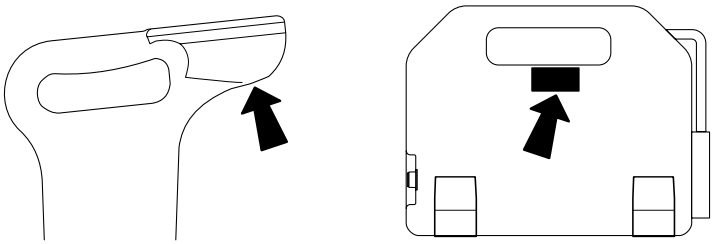
# SUPPORT

## SERIAL NUMBER RECORD

Record the serial numbers and date of purchase of your Ditch Witch Subsite components in the spaces below.

| Item | |
|---|---|
| Date of purchase | |
| Receiver serial number | |
| Transmitter serial number | |
| Accessory model & serial number | |
| Accessory model & serial number | |



1129h.eps

# SERVICE PROCEDURE

Notify your dealer immediately of any malfunction of Ditch Witch Subsite equipment.

Always give model, serial number, and approximate date of purchase. This information should be recorded and placed on file by owner at time of purchase. Give detailed explanation of malfunction.

Return damaged parts to dealer for inspection and warranty consideration.

Order genuine Ditch Witch Subsite replacement or repair parts from your dealer. Use of another manufacturer’s parts may void warranty.

# FOREWORD

This manual is an important part of your equipment. It provides safety information and operation instructions to help you use and maintain your Ditch Witch Subsite Electronics equipment.

Read this manual before using your equipment. Keep it with the equipment at all times for future reference. If you sell your equipment, be sure to give this manual to the new owner.

If you need a replacement copy, contact your Ditch Witch Subsite Electronics dealer. If you need assistance in locating a dealer, visit our website at **www.ditchwitch.com** or write to the following address:

The Charles Machine Works, Inc.
Attn: Subsite Electronics
PO Box 66
Perry, OK 73077-0066
USA

The descriptions and specifications in this manual are subject to change. The Charles Machine Works, Inc. reserves the right to improve equipment. Some product improvements may have taken place after this manual was published.

Thank you for buying and using Ditch Witch Subsite Electronics equipment.

**Operator's Manual**
**300SR/ST**

Issue No.1.0/OP-4/02
Part Number 054-081

# CONTENTS

# RECEIVER

## OVERVIEW


The Subsite 300SR receiver is designed to locate buried pipes, lines, and cables. Several frequencies and modes of operation are available to suit your specific locating needs.

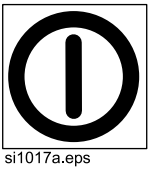
Available **passive** modes include 50Hz or 60Hz power, and radio.

Available **active** modes include 8 kHz or 29 kHz.

As an option, a 29 kHz beacon mode is available for use with certain Ditch Witch Subsite **beacons** to locate plastic pipes.

# SINGLE KEY CONTROLS

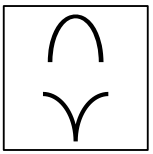
### On/Off


si1017a.eps

Turns unit on and off.

- Press once to turn on.
- Press again to turn off.

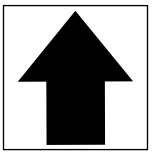
### Antenna Select


si0006h.eps

Selects peak or null antenna mode.

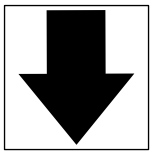
- Press once to change mode.
- Press again to return to previous mode.

### Up Arrow


si1014a.tif

- Press to increase manual gain (increase signal) incrementally from 25 to 100.
- Press and hold to increase manual gain (increase signal) more quickly.
- If signal is below 25, press once to increase gain (increase signal) to approximately 50.

### Down Arrow


si1015a.tif

- Press to decrease manual gain (decrease signal) incrementally from 75 to 0.
- Press and hold to decrease manual gain (decrease signal) more quickly.
- If signal is above 75, press once to decrease gain (decrease signal) to approximately 50.

### Depth


si0007h.eps

- Press once to estimate depth of properly located signal source.

  **IMPORTANT:** See **OPERATION** for information on locating signals.

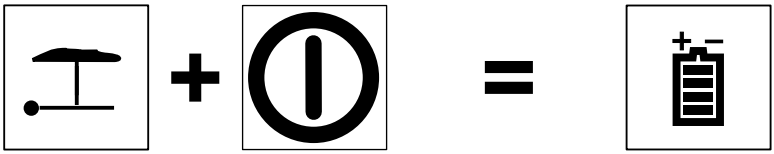
- Press and hold while pressing another button to enable 2nd function of that button. 2nd functions are described on the following page.

# 2ND FUNCTION CONTROLS

To use these functions, press and hold the first button indicated, then press the second button.

### Battery Life

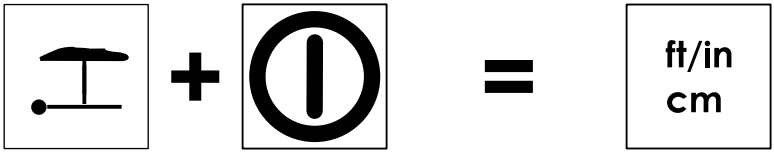
Shows percent of battery life remaining.


c00ic098h.eps

### Units of Measurement

Changes the units of measurement in which the depth is displayed. Available displays are ft/in or cm/m.

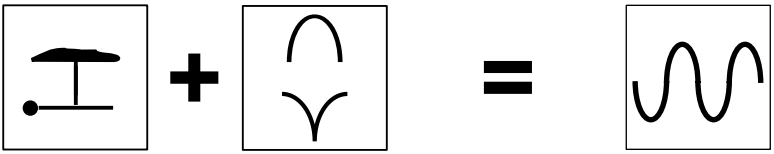
**IMPORTANT:** Press this key sequence with the **unit off**.



c00ic102h.eps

### Frequency

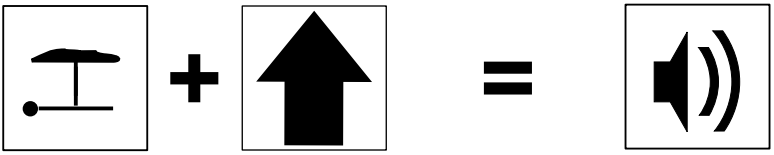
Selects frequency mode: power (60 Hz or 50 Hz), radio, or active (8 kHz or 29 kHz).



c00ic099h.eps

### Volume

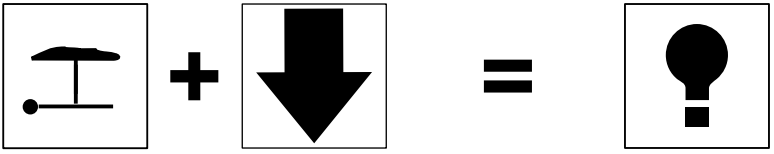
Turns volume on or off.



c00ic100h.eps

### Backlight

Turns backlight on or off.



c00ic101h.eps

# DISPLAY

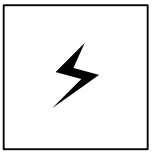
## Mode

The receiver can be configured to operate in four modes described below. The icon for the currently selected mode is shown along the bottom of the display.

### Power

Allows receiver to trace live 50 Hz or 60 Hz power lines.

**IMPORTANT:** Current must be flowing through the line.


si0008h.eps

### Radio

Allows receiver to trace lines that pick up and radiate very low frequency (VLF) radio waves.


si0009h.eps

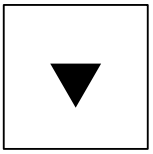
### Transmitter

Allows receiver to trace lines that have had a 29 kHz or 8 kHz signal placed on them by a transmitter.


si0010h.eps

### Beacon

This optional mode allows receiver to trace nonmetallic pipes and conduits with 29 kHz beacon.

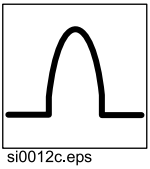

si0011h.eps

## Antenna

The receiver has two antenna modes described below. The icon for the currently selected mode is shown on the left side of the display.

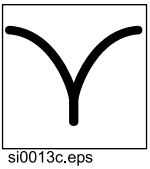
### Peak

Signal strength peaks when receiver is over the line being located.


si0012c.eps

### Null

Signal drops to minimum strength when receiver is over the line being located. Gives a more precise response when locating lines in uncongested areas.


si0013c.eps

**IMPORTANT:** In congested areas, confirm location by using peak antenna.

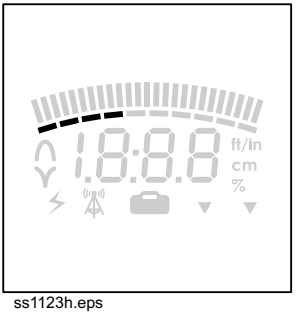
## Signal Strength

Signal strength is shown by bars at top of display and in numeric display.

ss1122h.eps

## Gain

Gain (amount of signal amplification) is shown by bars below signal strength indicator. Gain increases to the right.



ss1123h.eps

## Depth

Estimated depth displays when depth button is pressed.

Receiver can display depth the following ways:

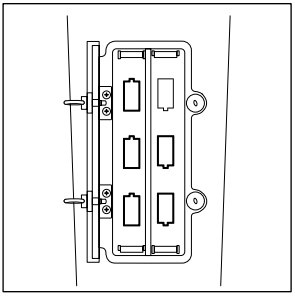
ss1124h.eps

| Depth | Display |
|---|---|
| up to 47 in | inches |
| 48 in and deeper | feet/inches |
| up to 99 cm | cm |
| 100 cm and deeper | meters |

**IMPORTANT:** If three dashes or three dots appear in the display, the receiver is experiencing an error. See **CARE AND ERROR CODES**.

# SETUP

## Install Batteries

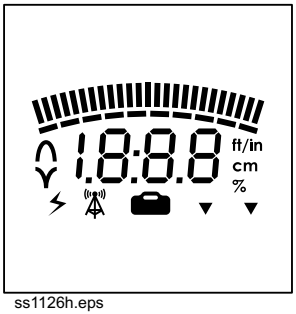

ss1134h.eps

Use six C-cell alkaline batteries in receiver.

**To install:**

1. Unscrew battery cover.
2. Insert batteries as shown.
3. Close and tighten battery cover.
4. Check operation.

## Check Operation



ss1126h.eps

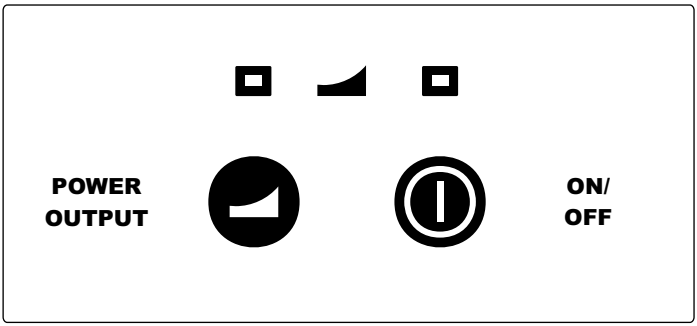
Always check that receiver is operating before leaving for jobsite and after every battery change.

**To check operation:**

1. Turn on receiver.
2. Entire display will light briefly.
3. Display will show last used setting.

# TRANSMITTER

## OVERVIEW

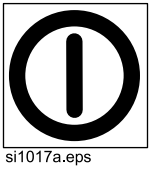



ss1130h.eps

The Ditch Witch Subsite 300ST transmitter is designed to place signals on target lines. It can be configured to send 8 kHz or 29 kHz frequencies. It places a signal on the line through either direct connection, induction clamping, or broadcast modes.

# CONTROLS AND INDICATORS

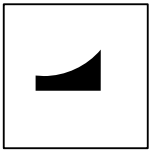
### ON/OFF Button


si1017a.eps

Turns unit on and off.

- Press once to turn on.
- Press again to turn off.

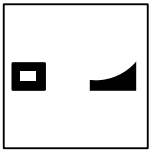
### POWER OUTPUT Button


si0012h.eps

Selects low or high power output.

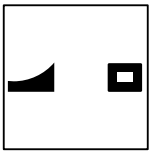
- On power up, the 300ST defaults to low power output.
- Press once to change to high.
- Press again to change to low.

### Power Output LEDs


si0013h.eps

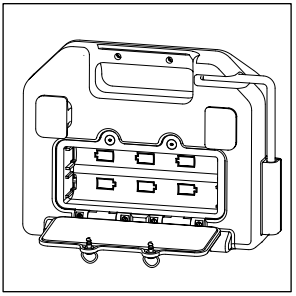
Display which power output is currently functioning.

- Green LED indicates low power.
- Red LED indicates high power.


si0014h.eps

# SETUP

## Install Batteries


ss1135h.eps

Use six D-cell alkaline batteries in transmitter.

**To install:**

1. Unscrew battery cover.
2. Insert batteries as shown.
3. Close and tighten battery cover.
4. Check operation.

## Check Operation

Always check that transmitter is operating before leaving for jobsite and after every battery change.

**To check operation:**

1. Turn on transmitter.
2. Transmitter will beep and green LED will light.

   **NOTICE:** If both LEDs flash and transmitter beeps repeatedly, batteries are low.

# SAFETY

Follow these guidelines before operating any jobsite equipment:

- Read and follow all safety precautions.
- Complete proper training and read operator's manual before using equipment.
- Use equipment only as directed.
- Contact One-Call (888-258-0808) and any utility companies which do not subscribe to One-Call. Have all underground pipes and cables located and marked before sweeping area.
- Classify jobsite based on its hazards and use correct tools and machinery, safety equipment, and work methods for jobsite.
- Wear personal protective equipment.
- Check that equipment is in good condition, and test leads are clean and have no cracked insulation.
- Contact your Ditch Witch Subsite dealer if you have any question about operation, maintenance, or equipment use.

# SAFETY ALERT CLASSIFICATIONS

These classifications and the icons defined on the following pages work together to alert you to situations which could be harmful to you, jobsite bystanders or your equipment. When you see these words and icons in the book or on the machine, carefully read and follow all instructions. YOUR SAFETY IS AT STAKE.

Watch for the three safety alert levels: **DANGER**, **WARNING** and **CAUTION**. Learn what each level means.

**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

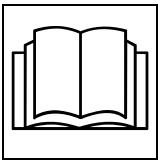
**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Watch for two other words: **NOTICE** and **IMPORTANT**.

**NOTICE** can keep you from doing something that might damage the machine or someone's property. It can also alert you against unsafe practices.

**IMPORTANT** can help you do a better job or make your job easier in some way.

# SAFETY ALERTS



**⚠ WARNING** Incorrect procedures could result in death, injury, or property damage. Learn to use equipment correctly.

**NOTICES:**

- Electric shock or equipment damage can result if transmitter is connected to live cable. Have qualified personnel disconnect both ends of cable before working.
- Turn off transmitter when connecting or moving ground stake.
- If target depth and location are critical, confirm by hand-digging.

**⚠ WARNING** Jobsite hazards could cause death or serious injury. Use correct equipment and work methods. Use and maintain proper safety equipment.

**⚠ WARNING** Moving traffic - hazardous situation. Death or serious injury could result. Avoid moving vehicles, wear high visibility clothing, post appropriate warning signs.

# OPERATION

## CHOOSE SIGNAL TYPE

The 300SR can detect two types of signals:

- **Active signals** are placed on a target line with the transmitter and detected by the receiver. As an option, an active signal from a **beacon** can also be detected by the receiver.
- **Passive signals** reside on the target line and are read by receiver.

Read the descriptions on the next page and determine the signal type to use for your job.

## Active

There are three ways to place active signals on a target line with a transmitter:

- **Direct connection** (preferred method) requires a connection to be made directly onto target line.
- **Induction clamp** requires placing an optional induction clamp around target line.
- **Broadcast** method requires no connection and sends current into lines near the transmitter.

## Beacon

If equipped, trace non-metallic pipes or conduits by locating and following a 29 kHz beacon signal.

## Passive

Some utility lines pick up signals from the environment and carry them as detectable signals. These passive signals can be power signals or radio signals.

**IMPORTANT:** No depth estimates are available in this mode.

# CHOOSE ANTENNA CONFIGURATION

The 300SR receiver has two antenna configurations:

| Antenna | Description | When to use |
|---|---|---|
| **peak** | Uses two horizontal antenna to detect signal. Response is highest at strongest signal. | This is the preferred configuration for most applications. |
| **null** | Uses a vertical antenna to detect signal. Response is lowest when receiver is over the line. | Use primarily to verify the location of a target line **after** it has been located with the peak antenna. |

# CHOOSE FREQUENCY

## Receiver

Set the 300SR receiver to one of the following frequencies:

- power (50 Hz or 60 Hz)
- radio
- active (8 kHz or 29 kHz)

## Transmitter

Your 300ST transmitter was configured at the time of purchase to send either 8 kHz or 29 kHz signals.

# RECOGNIZE COMMON SIGNAL PROBLEMS

Distortions in the electromagnetic field around a line can affect location and depth accuracy. Tees, bends, parallel lines, crossing lines, or large metallic objects can distort signals.

**NOTICE:** If target depth and location are critical, confirm by hand-digging or vacuum excavation.

Learn to recognize the following kinds of distortion:

## Shadows

Shadows, also called blind spots, often happen when a metallic object partially obstructs signal, or a signal from a parallel line interferes with target signal.

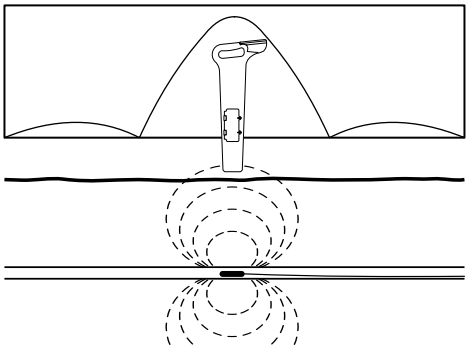
## False Signals

False signals describe situations where the receiver indicates a line location where there is no line. False signals often happen when a line tees or bends, runs parallel to the target line, or crosses the target line.

**IMPORTANT:** Generally, the receiver shows less distortion in peak antenna configuration.

## Secondary (Ghost) Signals

A typical beacon signal pattern shows a main signal and two weaker secondary signals. Identify beacon location at the main signal. Familiarity with beacon signal patterns will lessen the effect of ghost signals.



ss1138h.eps

# LOCATE LINE: ACTIVE LOCATION

## Setup

Follow setup procedures for the type of locating you will be doing: direct connection, induction clamp, or broadcast induction.

### Direct Connection

**⚠ WARNING** Jobsite hazards could cause death or serious injury. Use correct equipment and work methods. Use and maintain proper safety equipment.

**NOTICE:** Electric shock or equipment damage can result if transmitter is connected to live cable. Contact qualified utility personnel and follow all local standards and restrictions for disconnecting and grounding lines.

To set up transmitter for direct connection:

1. Drive ground stake.
2. Plug cable into transmitter.
3. Hook black cable to ground stake.
4. Hook clip to line.
5. Turn on transmitter.

**NOTICE:** Turn off transmitter when connecting or moving ground

stake.

ss0014c.eps

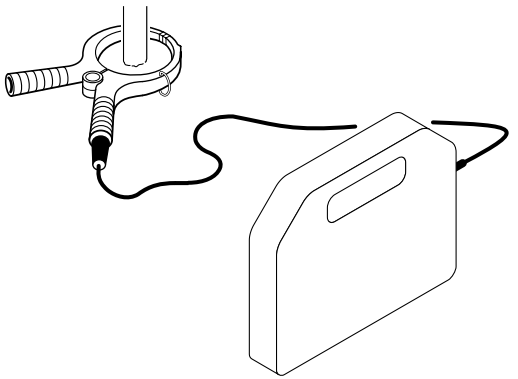
## Induction Clamp

**⚠ WARNING** Jobsite hazards could cause death or serious injury. Use correct equipment and work methods. Use and maintain proper safety equipment.

**NOTICE:** Electric shock or equipment damage can result if transmitter is connected to live cable. Contact qualified utility personnel and follow all local standards and restrictions for disconnecting and grounding lines.

To set up transmitter for use with induction clamp:

1. Plug cable into transmitter.
2. Place clamp around target line.
3. Turn on transmitter.

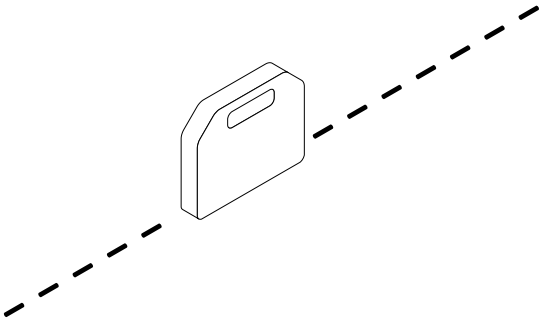


1137h.eps

## Broadcast Induction

To set up transmitter for broadcast induction:

1. Remove cable, stake, clamp and any other metal objects from transmitter.
2. Place transmitter in line with suspected line.
3. Turn on transmitter.

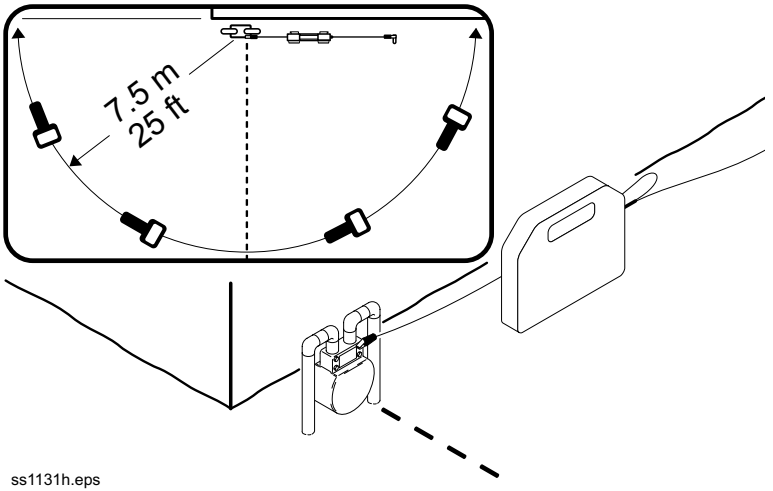


1136h.eps

## Technique

**IMPORTANT:** Follow steps 1-3 for all types of active location. For reference, the illustration below shows direct connection method. If using broadcast induction, ensure that transmitter is in line with and above suspected line, as shown on previous page.

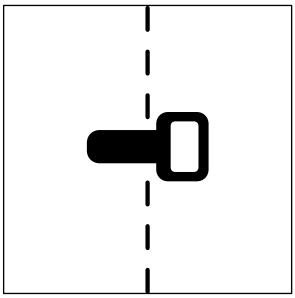
1. Walk in an arc approximately 25 ft (7.5 m) around transmitter.
2. Hold the receiver as shown.
3. Identify location of line by finding the spot with the strongest signal response.




ss1131h.eps

4. Rotate the receiver to determine which direction the line runs.

   **IMPORTANT:** Receiver indicates the strongest signal when the handle is **perpendicular** to the target line.


ss1132.eps

5. Set the receiver on the ground.
6. Press depth button when the line has been located.

   **IMPORTANT:** When estimating depth for pipe, depth shown is to the **center** of the pipe.

7. Continue to trace the line and take depth estimates every few paces.
8. Retrace the line and mark with appropriate flags or paint.

## Special Situations

| Situation | What to try |
|---|---|
| Signal is lost. | Walk in a circle to detect a tee or bend in the line. |
| Signal varies from low to high and is unstable. | Mark as a hand-dig area. |
| You are near a power line and are receiving interference such as unstable depth readings, blank display, etc. | Sweep the area in power mode. If receiver gives a strong signal response, a power line is interfering with transmitter signal. |
| Receiver does not function properly. | Receiver gain could be set too high or low. Lower or raise gain to locate the line. Also ensure that receiver is set to the correct mode. |
| Target line has connections to other lines. | Disconnect target line from other lines. |
| Signal is transferring to other lines. | • Lower the power level.<br>• Use direct connection, if possible, or use induction clamp.<br>• Move the ground stake away from the target line and away from other buried lines.<br>• Apply signal at the point where the target line is farthest from the other lines. |
| Three dashes appear on the display. | See **CARE AND ERROR CODES**. |

# LOCATE: BEACON

If equipped, trace non-metallic pipes or conduits by locating and following a 29 kHz beacon signal.

**IMPORTANT:** Large metal objects and other signals (such as railroad signals or overhead power lines) can distort signal.

## Setup

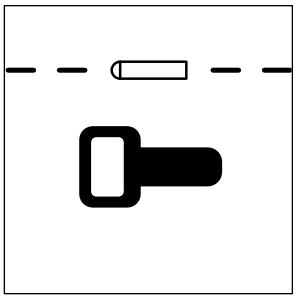
To set up for beacon location:

1. Follow beacon manufacturer's instructions on battery installation and testing beacon operation.
2. Attach beacon to plumber's snake or flex rod.

## Technique

1. Turn on receiver.
2. Set antenna to peak. Set frequency to beacon mode.
3. Place the beacon into the pipe and move it down the pipe.
4. To locate the beacon, circle over its approximate location in the pipe.
5. To identify the location of beacon, find the spot with the strongest signal response.
6. Rotate the receiver to determine which direction the beacon runs.

   **IMPORTANT:** Receiver indicates the strongest signal when handle is **parallel** with and directly over the beacon.


ss1133h.eps

7. Press the depth button.

   **NOTICE:** When estimating depth with a beacon in nonmetallic pipe, depth shown will be to the center of the beacon, not to the top of the pipe.

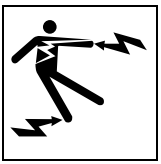
8. Continue to track the beacon and take depth readings. Mark pipe location with paint.

# LOCATE LINE: PASSIVE LOCATION

## Setup

To set up for passive location, turn on receiver. Choose the power or radio frequency, and select the best antenna configuration for your job. See “Choose Antenna Configuration” earlier in this chapter.

Always check receiver battery level at startup.



**DANGER** Electric shock. Contacting electric lines will cause death or serious injury. Know location of lines and stay away.

**NOTICE:** Lines with no AC current flowing through them are hard to detect and dangerous because they still have voltage. To locate, turn on an appliance to cause current flow and use power mode, or use active or radio search methods. **Do not** use direct connect.

## Technique

### Survey the Site

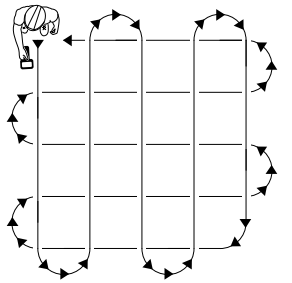
Make a visual check of the site for signs of buried lines such as:

- recent trenching
- buried line markers
- overhead lines that run down poles and underground
- gas meters
- valve sights
- drains or manhole covers

### Sweep the Site

Search the site by walking a grid pattern while holding receiver close to the ground.

**IMPORTANT:** Keep the receiver vertical.



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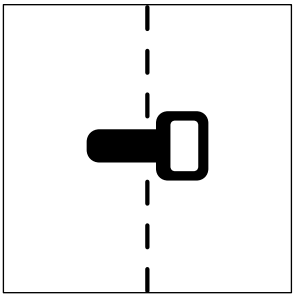
### Focus the Signal

Move the receiver over the detected signal to find the strongest signal response. If using peak antenna mode, rotate the receiver until the signal is strongest. Strongest signal indicates line direction.

### Trace the Line

Walk along the suspected path while moving the receiver back and forth across the area.

**IMPORTANT:** Keep receiver handle **perpendicular** to the suspected line path.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### Mark the Line

Sweep, focus, and trace all detected signals in the area. Mark line paths with colored paint or flags. See the chart below for standard color markings for line locations or check local regulations.

| Utility | Color | Marking Symbol |
|---|---|---|
| electric | red | -E- |
| gas/oil | yellow | -G- |
| communications | orange | -TEL- or -TV- |
| water | blue | -W- |
| sewer | green | -S- |

## Special Situations

| Situation | What to try |
|---|---|
| Signal is lost. | Walk in a circle to detect a tee or bend in the line. |
| Signal varies from low to high and is unstable. | Check the transmitter connection. If connection is good and signal is still unstable, mark as a hand-dig area. |
| Receiver does not function properly. | Receiver gain could be set too high or low. Lower or raise gain to locate the line. |
| Three dashes appear on the display when depth button is pressed. | See **CARE AND ERROR CODES**. |

# FCC Statement -- Internal Transmitter

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Section 15.19 (a) (1) states: “Receivers associated with the operation of a licensed radio service, e.g. FM broadcast under Part 73 of this chapter, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device: This device complies with Part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.”

Changes or modifications not expressly approved in writing by **The Charles Machine Works, Inc.** may void the user’s authority to operate this equipment.

# CARE AND ERROR CODES

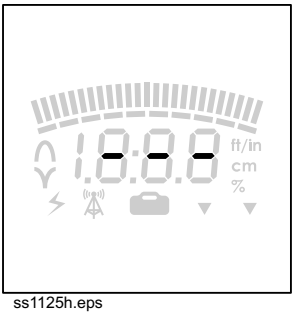
Under normal operating conditions, receiver needs only minor maintenance. Following these care instructions can ensure longer equipment life.

## GENERAL CARE

- Do not drop the equipment.
- Do not expose the equipment to high heat (such as in the rear window of a car).
- Clean equipment with a damp cloth and mild soap. Never use scouring powder.
- Do not immerse in any liquid.
- Inspect housing daily for cracks or other damage. If housing is damaged, contact your Ditch Witch Subsite dealer for replacement.

# ERROR CODES

If **three dashes** appear in the display when pressing the depth button, one of the following could be possible:



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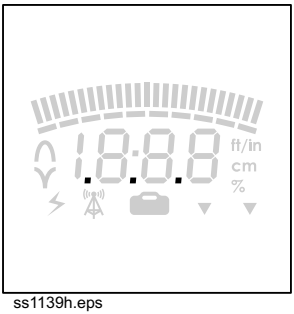
- The receiver is detecting a signal above it and cannot estimate depth. This message is usually caused by interfering signals. Try relocating target signal.
- Line is too deep for depth estimate. Mark as a hand-dig area.
- Line is too shallow for depth estimate. Select lowest usable transmitter power level or lift receiver high enough to return display to normal operation. Relocate line and verify with null antenna.

If **three dots** appear in the display when pressing the depth button, contact your Ditch Witch Subsite dealer.



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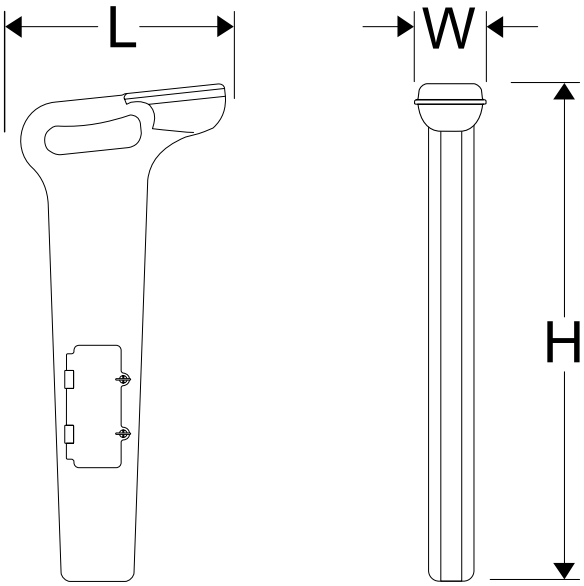
# SPECIFICATIONS

## 300 RECEIVER



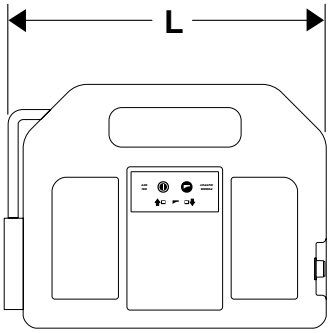

| **Dimensions** | **U.S.** | **Metric** |
|---|---|---|
| Length | 11.5 in | 700 mm |
| Width | 4.0 in | 100 mm |
| Height | 27.5 in | 290 mm |
| Operating weight | 5.0 lb | 2.3 kg |

| Operation | | U.S. | Metric |
|---|---|---|---|
| Operating temperature range | | -4°F to 122°F | -20°C to 50°C |
| Antenna configurations | | peak, null | |
| Audio output | | speaker | |
| Operating modes | | | |
| | Active line: 8 kHz or 29 kHz | | |
| | Beacon (locate/depth only): 29 kHz option only | | |
| | Passive line: 50 Hz or 60 Hz, no depth available | | |
| | Radio: passive locate only, no depth available | | |
| Locating ranges | | | |
| | Lines | 15 ft | 4.6 m |
| | Beacons | 10 ft | 3 m |
| Maximum depth ranges** | | | |
| | Active line ±5% | .5 - 10 ft | .15 - 3 m |
| | Active line ±10% | 10 ft and deeper | 3 m and deeper |
| | Beacon ±5% | .5 - 10 ft | .15 - 3 m |
| LCD backlight | | LED (green) | |

**Locators are calibrated to these tolerances under ideal test field conditions. Actual operating field conditions may have signal distortions or may contain noise sources which result in depth estimate accuracy that is less than specified.

| **Batteries** | |
|---|---|
| Batteries | 6 C-cell alkaline |
| Battery life (continuous use at 70°F [21°C]) | approximately 40 hours |
| Battery saver | unit shuts off after 5 minutes of inactivity |

# 300 TRANSMITTER

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| **Dimensions** | **U.S.** | **Metric** |
|---|---|---|
| Length | 12.25 in | 311 mm |
| Width | 4.5 in | 114 mm |
| Height | 9.25 in | 235 mm |
| Operating weight | 5.0 lb | 2.3 kg |
| **Operation** | **U.S.** | **Metric** |
| Operating temperature range | -4°F to 122°F | -20°C to 50°C |
| Maximum power output | 1 watt | 1 watt |
| Operating modes: 8 kHz or 29 kHz | | |
| **Batteries** | | |
| Batteries | 6 D-cell alkaline | |
| Battery life (continuous use at low power level) | approximately 150 hours | |

# WARRANTY

## Ditch Witch Subsite Electronics Limited Product Warranty Policy

### Warranty Periods

**New Product**

A twelve-month period starts on the date of delivery to the end user:

Trackers: 750 Tracker
Transmitters: 300ST, 950T, 75T
Fault Finders: AF1, FT12
Remote Displays: 750 Display
Receivers: 300SR, 950R, 75R, EML

A six-month period starts on the date of delivery to the end user:

Beacons: 11B, 86B, 86BH, 86BHL, SBRP, 822B, 822BH, 910B

A three-month period starts on the date of delivery to the end user:

Beacons: BI
Accessories: cables, clamps, canoes, and adapters

**Used Product (Cosmetics)**

A three-month warranty starts on the date of delivery to the end user. (Non-returnable) All used products have an RS added after the serial number.

**Service and Repair**

A one-month warranty on **labor** starts on the date the unit is repaired, and a three-month warranty on **parts** starts on the date the unit is repaired for all products.

**Extended Warranty**

The extended warranty may be purchased at the time the equipment is sold or within thirty days of ownership. The extension is for an additional twenty-four months, for a total coverage of thirty-six months.

## Details and Exclusions

- The warranty includes only Ditch Witch Subsite products and accessories that are manufactured and distributed by Ditch Witch Subsite Electronics. The warranty compensates on defects in material or workmanship.
- Defects will be determined through inspection by Ditch Witch Subsite Electronics or authorized repair centers. Original purchaser must make the defective item available for inspection within 30 days of the date the part fails.
- The warranty is limited to replacement of the defective part. The replacement part may be new or remanufactured. Repair and removal of defective part and installation will be at no charge when product or item is delivered to Ditch Witch Subsite Electronics or an authorized repair center. The product or item will be returned at no charge for return freight.
- The warranty periods do not represent the useful life of Ditch Witch Subsite Electronics products and accessories.
- If Ditch Witch Subsite products are purchased for commercial purposes, as defined by the commerical code, no warranties extend beyond the specific terms set forth in this limited warranty. All other provisions of this limited warranty apply, including duties imposed.
- Ditch Witch Subsite products have been tested to deliver acceptable performance in most conditions.
- This limited warranty applies to the original purchaser only. Some states or jurisdictions do not allow exclusion or limitation of incidental or consequential damages, so above limitation may not apply. This limited warranty gives original purchaser specific rights that vary from state to state or jurisdiction to jurisdiction.
- The Ditch Witch Subsite Equipment Registration Form must be completed for each serial numbered product and submitted to Ditch Witch Subsite Electronics. The information on the form is used to establish the warranty period start date.

- When the Ditch Witch Subsite Equipment Registration Form is not processed and received by Ditch Witch Subsite Electronics, the Ditch Witch Subsite shipping date is used to establish the warranty period start date.
- Product inspection and estimates may require that the unit be disassembled and tested.
- Out-of-warranty inspection costs include labor accrued at the full labor rate plus return freight.
- Approved out-of-warranty repair costs include parts, labor accrued at full labor rate, plus return freight.

Revision D, March 2002