

The Subsite® Electronics 910 beacon is designed to trace the path of or locate blockages in cast iron and non-metallic pipes. The beacon is a watertight transmitter that can maneuver through 90° turns in 3" (76 mm) pipe. These beacons transmit location and depth information to 900 series receiver.

## 910 Beacon

### Power

**Operating frequency:** 512 Hz

**Batteries:** two "AA" alkaline

**Battery life:** 4-6 hours continuous use @ 70°F (21°C)

### Miscellaneous

**Operating temperature range:**

32°F (0°C) to 140°F (60°C)

**Storage temperature range:**

-4°F (-20°C) to 176°F (80°C)

**Attachment thread size:**

3/8" x 16 thread

### FCC Statement

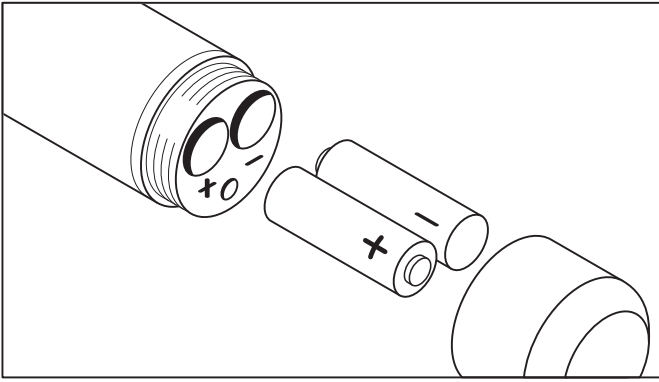
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by The Charles Machine Works, Inc. could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operator's manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### Inspect Components

- Check battery condition with voltmeter prior to using beacon to make sure each battery has enough charge to complete the job. Beacon performance will be adversely affected when total battery charge is at approximately 1.6 volts DC.
- Ensure that both batteries are properly inserted into battery chambers.
- Check for nicks and cuts on o-ring. Prior to installing new o-ring, apply approved o-ring lubricant. Use only approved o-rings (part number 157-116) or equivalent.

## Install Battery



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1. Unscrew cap.
2. Insert two "AA" alkaline batteries as shown above.
3. Inspect o-ring for nicks and cuts.
4. Hand tighten cap firmly.

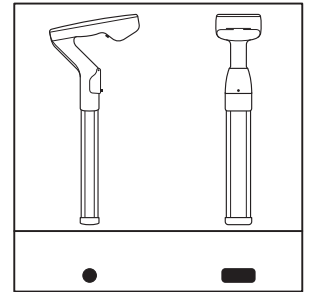
## Test Operation

Use a receiver to test beacon function before leaving for jobsite and after every battery change. To test beacon function:

1. Turn on receiver.
2. Adjust to 512 Hz beacon mode.
3. Check display for signs of beacon presence.

## Operating Tips

- For best results, keep beacon stationary when locating signal.
- To increase beacon signal, try rotating beacon slightly.
- Ensure receiver and beacon are aligned as shown.



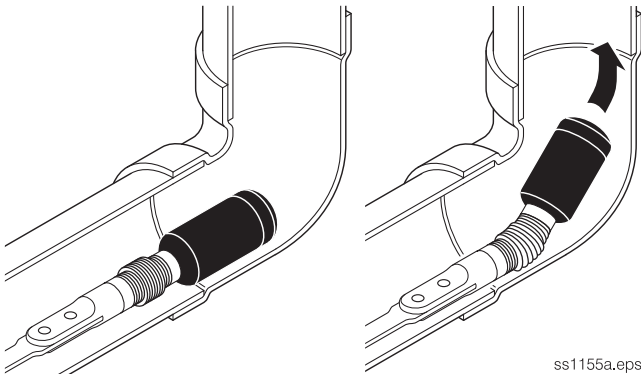
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## Attach Beacon to Cable or Rod

1. Attach cable or flexible rod to beacon.
2. Insert beacon and cable or rod into pipe.

Beacon will bend around 90° turns as shown.

**IMPORTANT:** minimum pipe size is 3" (76 mm) drain pipe.



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## Clean and Store Components

When finished using beacon,

- thoroughly wash cable or flex rod and beacon housing,
- remove batteries and store in beacon case,
- lubricate o-ring,
- dry beacon and store in case.

This unit covered by one or more of the following patents: #5,850,624; 5,872,703; 5,880,680.