

Fiberglass Interstitial Sensor Installation Kit

User's Manual

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Introduction

This manual contains instructions for attaching the Veeder-Root Calibrated Sensor Positioning Strip to an interstitial liquid sensor and installing the sensor/strip assembly in the annular space of a fiberglass tank.

Instructions for completing the sensor's installation are discussed in the manual shipped with the sensor.

Contractor Certification Requirements

Veeder-Root requires the following minimum training certifications for contractors who will install and setup the equipment discussed in this manual:

Level 1 Contractors holding valid Level 1 Certification are approved to perform wiring and conduit routing, equipment mounting, probe and sensor installation, tank and line preparation, and line leak detector installation.

Level 2/3 Contractors holding valid Level 2 or 3 Certifications are approved to perform installation checkout, startup, programming and operations training, troubleshooting and servicing for all Veeder-Root Tank Monitoring Systems, including Line Leak Detection and associated accessories.




Warranty Registrations may only be submitted by selected Distributors.

Related Manuals

576013-617 Interstitial Liquid Sensor - Fiberglass Tanks Installation Guide

Safety Precautions

The following safety symbols may be used throughout this manual to alert you to important safety hazards and precautions.

 EXPLOSIVE Fuels and their vapors are extremely explosive if ignited.	 FLAMMABLE Fuels and their vapors are extremely flammable.
 READ ALL RELATED MANUALS Knowledge of all related procedures before you begin work is important. Read and understand all manuals thoroughly. If you do not understand a procedure, ask someone who does.	

 WARNING	
  	<p>This product is to be installed and operated in the highly combustible environment of a gasoline storage tank where flammable liquids and explosive vapors may be present.</p> <p>Leaking underground tanks can create serious environmental and health hazards. It is your responsibility to install this product in accordance with the instructions and warnings found in this manual. Failure to do so could result in undetected potential environmental and health hazards.</p> <p>Failure to install this product in accordance with its instructions and warnings will result in voiding of all warranties connected with this product.</p>

Installation Kit

Table 1 lists the components in the Calibrated Sensor Positioning Strip kit.

Table 1. Interstitial Sensor Installation Kit (P/N 330020-436)

Item	Description	Part No.	Qty.
1	Calibrated Sensor Positioning Strip - 1/2" wide, 528" long	331969-001	1
2	Tie wrap	510901-337	4
3	Installation manual	577013-802	1

How the Strip Positions the Sensor in the Annulus

Select an out-of-the-way spot at the site where you can unroll the Calibrated Sensor Positioning Strip from the kit (the strip is 44 feet long). Notice that there are 10-, 8-, 6-, and 4-foot markers on both ends of the strip. The distance between any of two identical FT markers (e.g., 4 and 4) is equal to the circumference of that diameter tank, plus 12 feet. Notice at the very center of the Calibrated Sensor Positioning Strip there is a small hole in a painted area centered between two larger holes. The sensor is attached to the strip at this point so that for any of the four tank diameters, the sensor will always be positioned at the bottom of the tank annulus when the markers line up above the top of the riser (see Figure 1).

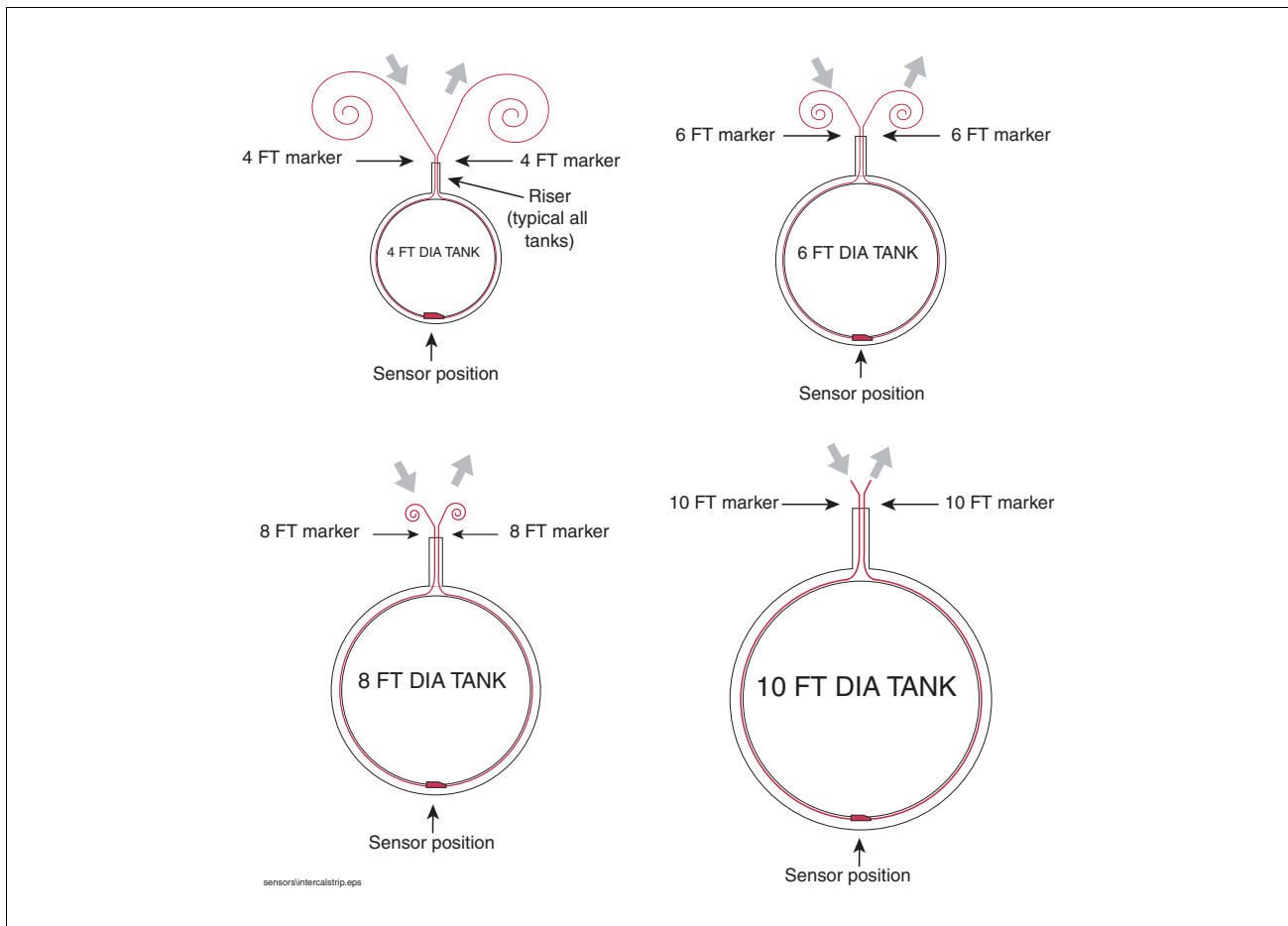


Figure 1.

Attaching the Sensor to the Strip

1. With the strip unrolled, look at the center of the strip. Notice that there are three holes in the center of the strip's length, one small hole in a painted area (which marks the Calibrated Support Strip's center point), equally spaced between two larger (5/16") holes. Orient the Calibrated Support Strip so that the painted side is up.
2. Place the Interstitial sensor along the top of the support strip so that the sensor body is over the painted area and the hole in the front of the sensor aligns with the 5/16" hole to the right of the center hole (see Figure 2). The red dot on the sensor's mesh sheathing must be facing up.

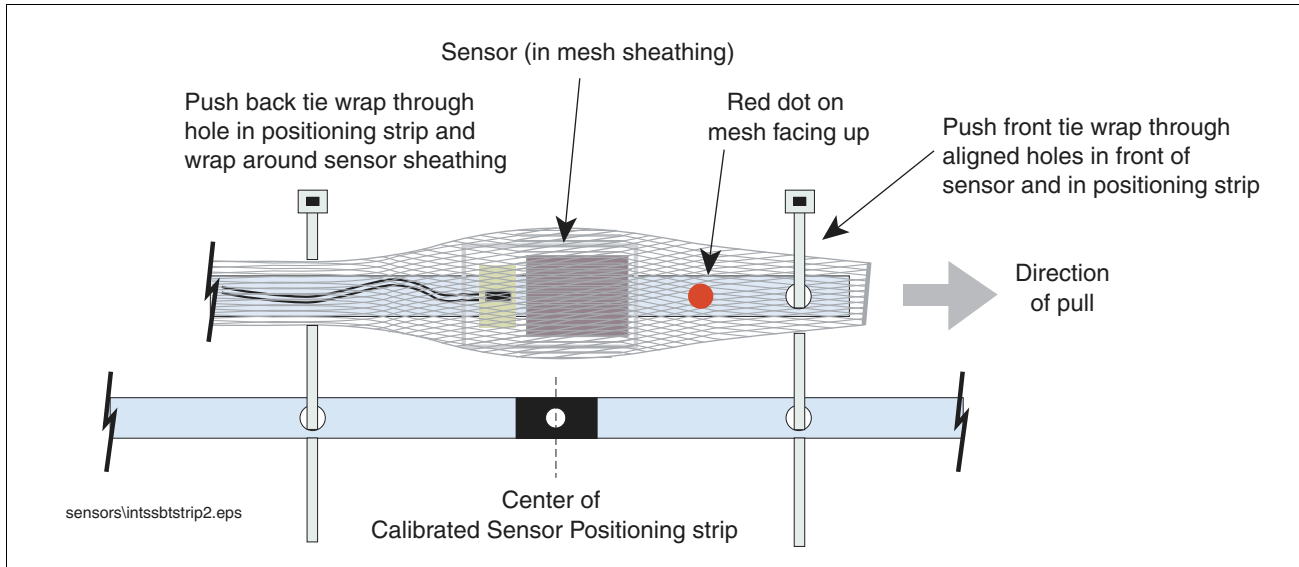


Figure 2.

3. Thread one of the tie wraps from the kit through the aligned holes of the Sensor and the Calibrated Support Strip. Snug up the tie wrap until the sensor is flat against the Calibrated Support Strip (see Figure 2). Thread another tie wrap from the kit through the 5/16" hole to the left of the calibrated support strip's center hole and around the sensor's mesh sheathing. Pull the tie wrap ends until the sensor is snug against the calibrated support strip (see Figure 3). Trim off excess ends from tie wraps.

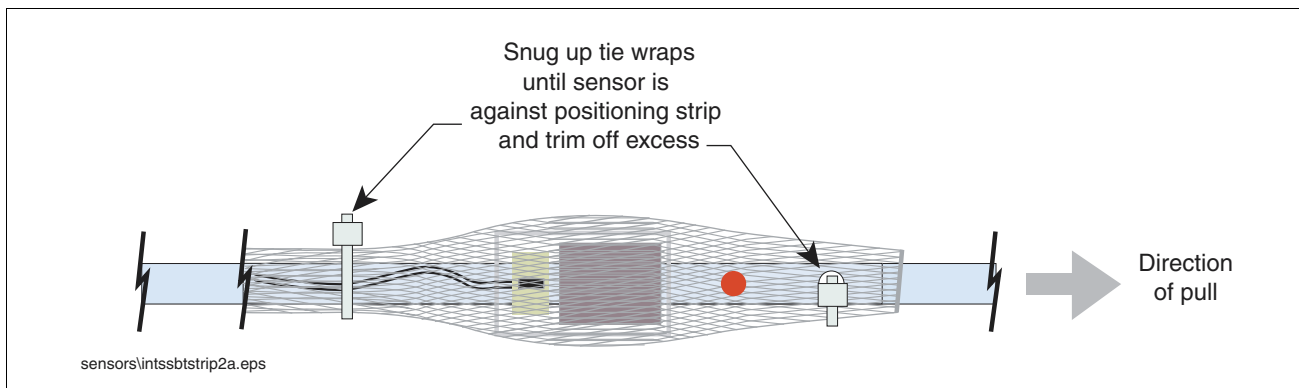


Figure 3.

4. Notice to which end of the Calibrated Sensor Positioning Strip the front of the sensor is pointing (this will be the direction of pull). Place a piece of tape at that end of the calibrated Sensor Positioning Strip - this is the end to which you will attach the tank's annulus pull cord.

Installing Sensor

1. Move the Sensor/Support strip assembly to the tank in which it will be installed.
2. Tie the tank pull cord to the end of the Calibrated Sensor Positioning Strip which you marked with tape above as identifying the 'direction of pull' end. As you pull the Calibrated Sensor Positioning Strip into the annulus, make sure the painted side of the strip is facing in towards the tank (see Figure 4).

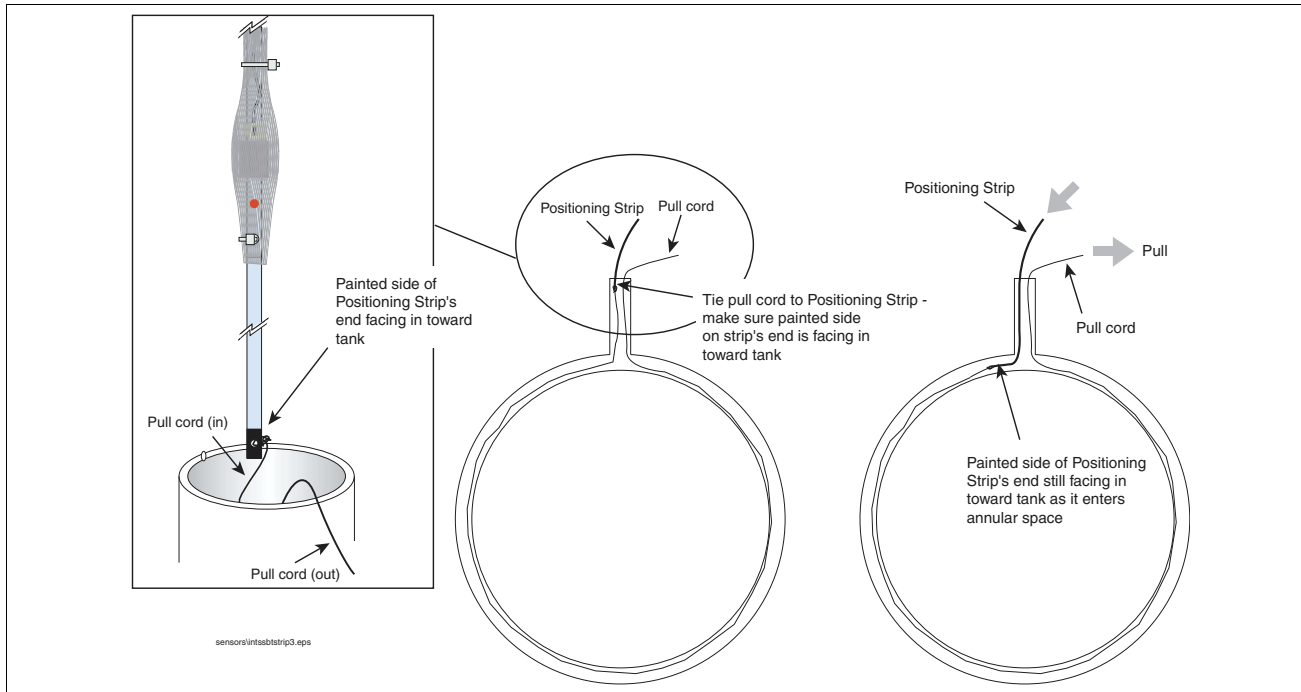


Figure 4.

3. Continue to pull the cord while feeding the sensor/strip assembly into the annulus. Depending on what diameter tank you have, pull the strip until the markers for that tank size are visible above the top of the riser. Pull both ends of the strip until the two markers line up (see Figure 5).

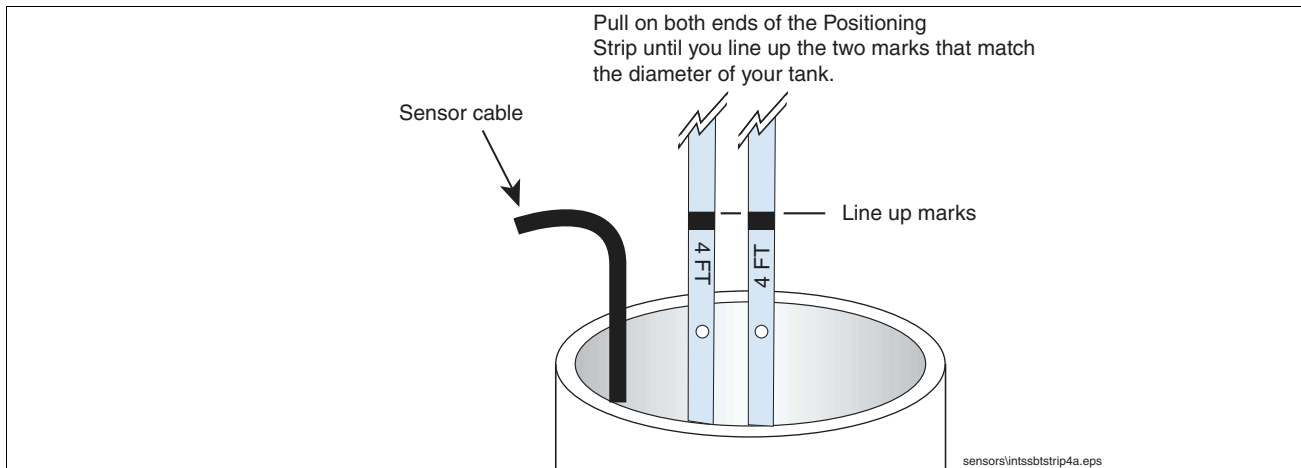


Figure 5.

4. When the two markers are lined up, the sensor is centered correctly at the bottom of the annulus (Figure 6).

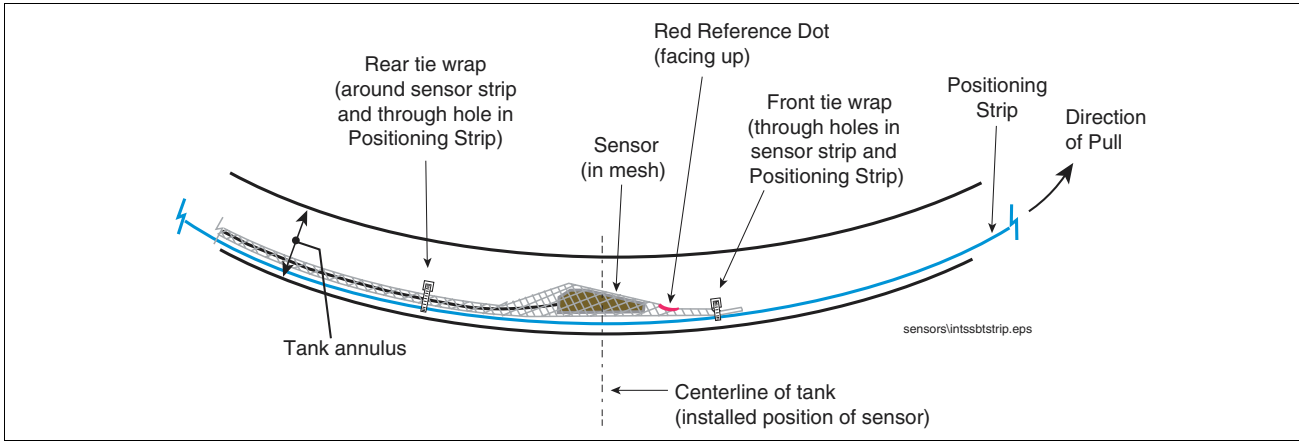


Figure 6.

- For 4-, 6-, and 8-foot diameter tank installations, trim off the two ends of the Calibrated Sensor Positioning Strip above the matched markers. **IMPORTANT! Be sure to reattach the pull cord in the hole below the marker on the 'out' end of the strip** (Figure 7). Attach a tie wrap through the two aligned holes to keep the sensor in its correct position.

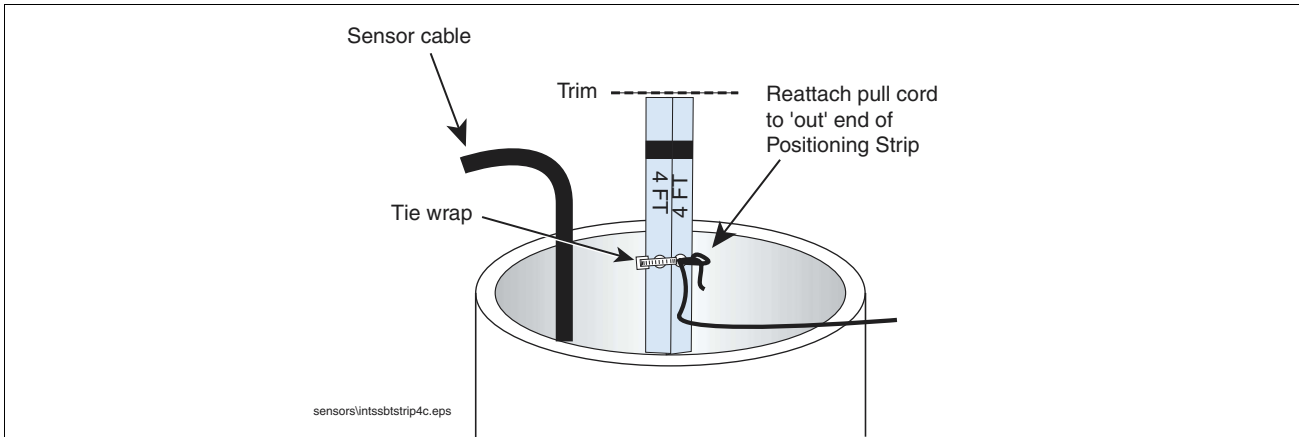


Figure 7.

- Tuck the strip ends and pull cord down into riser (Figure 8). Consult the Interstitial Liquid Sensor installation manual for instructions on completing sensor installation (install riser cap, connect field wiring, etc.).

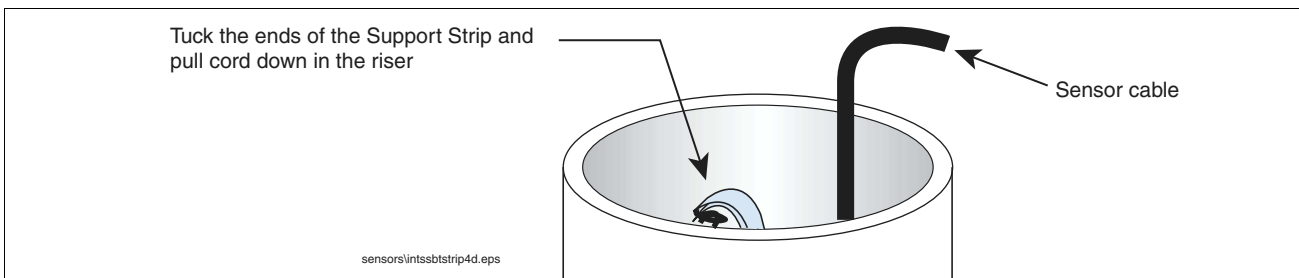


Figure 8.

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