

Installation Instructions

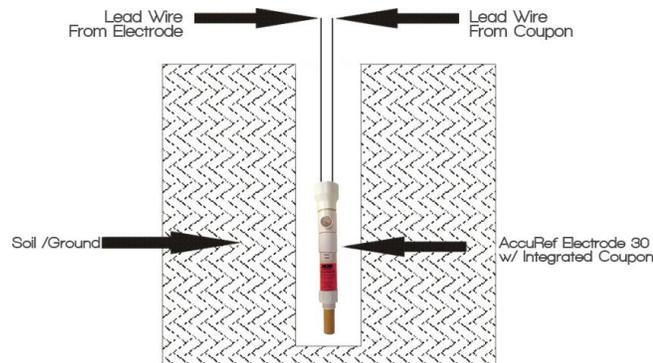
Integrated AccuRef Electrode/Coupon Assembly (Catalog # 146305)

Before installation, make sure to remove any covering, such as a paper towel, that may be in place around the ceramic tip.

Note: The coupon holder and the (nominal 3") pipe adapter will be supplied unfixed. If the assembly is to be mounted onto the bottom of a PVC test station pipe, the adapter can be affixed to the coupon holder and the coupon holder can be affixed to the reference electrode using PVC cement. If the adapter is not required, i.e., the assembly is not being mounted directly onto the bottom of a PVC test station pipe, only the coupon holder would need to be affixed to the electrode using PVC cement.

Installation Steps:

1. Augur a vertical hole with a minimum diameter of 4" down to a suitable depth (typically, so that the coupon will be at pipe depth (centerline depth)) and save the removed native soil. Lower the assembly into the hole with the electrode's ceramic tip pointing down and the lead wires coming up out of the hole.



2. If the assembly is not to be mounted directly (via the supplied adapter) onto the bottom of a test station pipe, dig a lateral trench from the augured hole location to the test station location, if a previously-installed test station exists. The trench depth should allow the lead wires to run from the assembly to the bottom of the test station pipe. Next, run the lead wires along the trench and up through the test station pipe to the terminal block.

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11640 U.S. Highway 1, Sebastian, Florida, U.S. A.

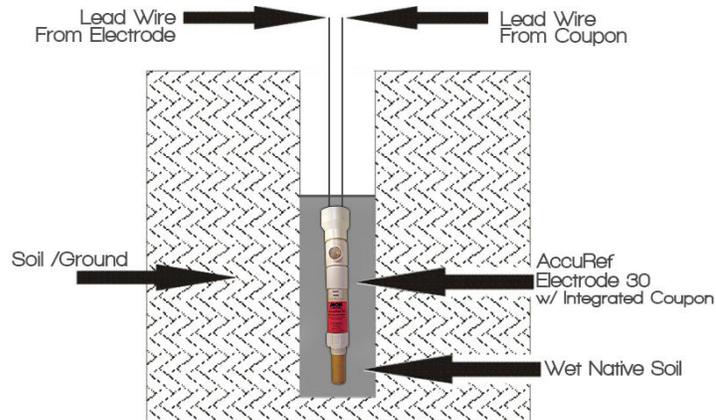
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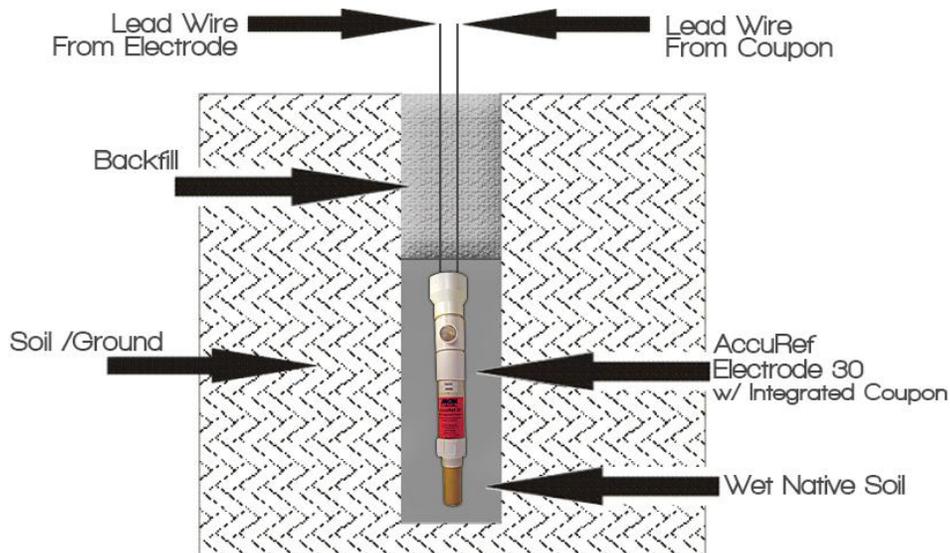


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3. Add water to a portion of the “saved” native soil until the mixture is at a “pourable” consistency. Pour the mixture into the augured hole, making sure that the ceramic tip is in contact with the moist soil and ensuring that the poured soil covers the top of the assembly.



4. Backfill the remaining hole (and trench) to grade level using the remaining excavated native soil.



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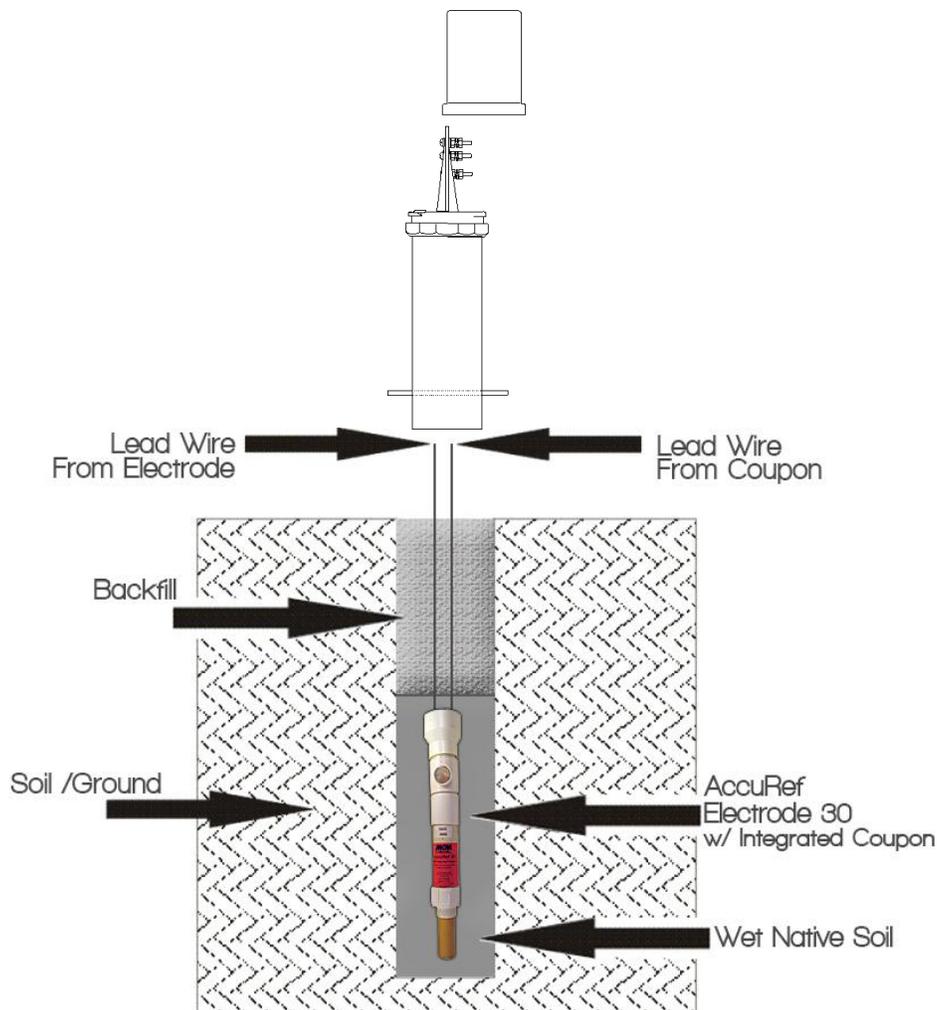
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5. Connect the reference electrode lead wire to the designated "Reference Electrode" terminal on the test station terminal block and connect the coupon lead wire to the designated "Coupon" terminal. Next, take a pipe-to-reference electrode voltage reading by connecting a high input impedance voltmeter across the Pipe and Reference Electrode terminals in order to confirm the functionality of the reference electrode and the continuity of the pipe lead and reference electrode lead at the terminal block. Next, take a coupon-to-reference electrode voltage reading by connecting the voltmeter across the Coupon and Reference Electrode terminals in order to confirm the functionality of the coupon and the continuity of the coupon lead (and reference electrode lead) at the terminal block.



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Note: The coupon-to-reference electrode reading will reflect the native potential of the “as-buried” coupon metal. This potential will typically change as the coupon acclimates to its soil environment. It is suggested that a period of time (typically about 1 month) be allowed to elapse before the coupon and the pipe are electrically connected (via a shunt or a switch on the terminal block) in order that a depolarized coupon potential reading will be more representative of the “static” potential of a coating holiday on the pipe.

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