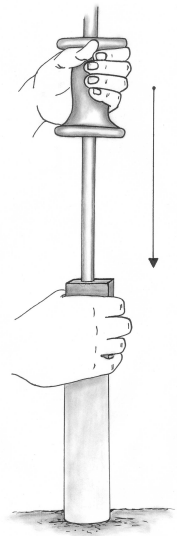
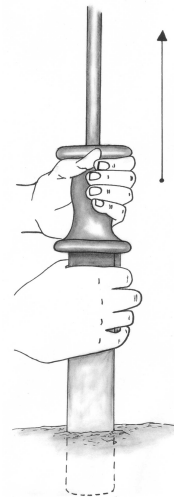


# Bore Pilot Hole

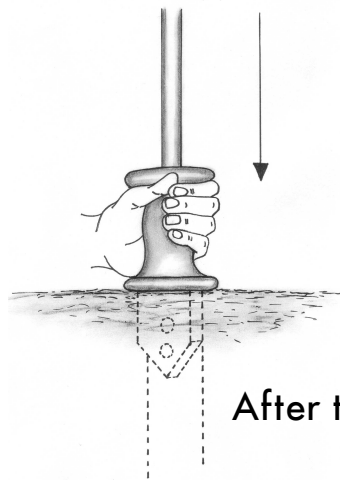
**NOTE: Always check for pipes, wires and anything else that could be underground before digging**



**Step 1**  
Assemble the slide hammer and the metal blade tool.



**Step 2**  
Moving the slide hammer up and down, boring a pilot hole for the probe.



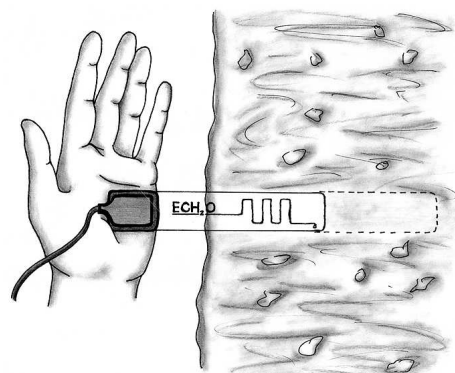
**Step 3**  
Pound the blade into the ground until the top of the blade has become level with the surface of the soil.

**Step 4**  
After the hole is pre-drilled to the desired depth, pull the tool out of the soil.

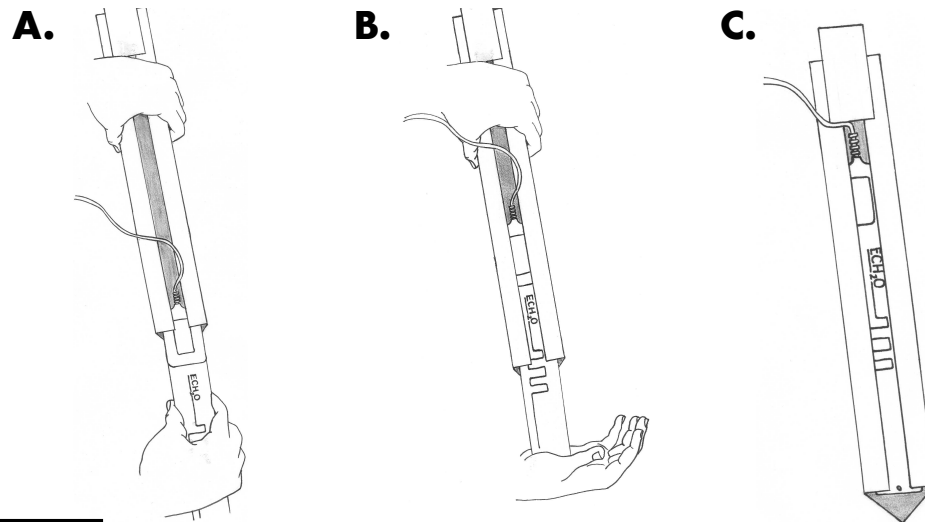
## Special Application

If you are inserting the probe into a trench, you can insert the probe horizontally into the soil profile.

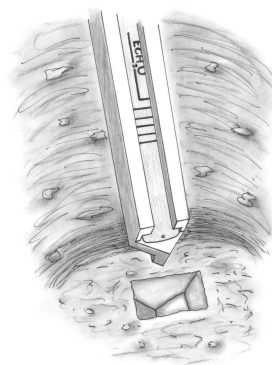
1. Bore the pilot hole on edge in the soil profile, so that puddles do not form on the measuring part of the probe.
2. Insert the probe into the pilot hole with your hand.



# Load Insertion Tool



**Step 5**  
Load the ECH<sub>2</sub>O probe into the blue insertion tool with the probe cable towards the top of the tool and running freely through the center slot.

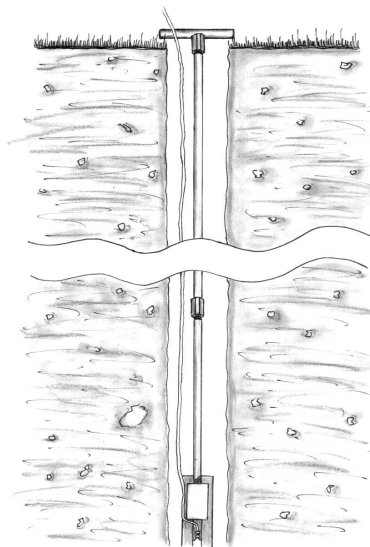


**Step 6**  
Assemble the loaded insertion tool, the T-handle and the extension rods if necessary. Place the pointed end of the insertion tool into the pilot hole.

## Special Application

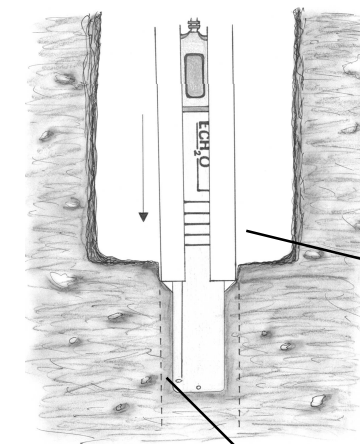
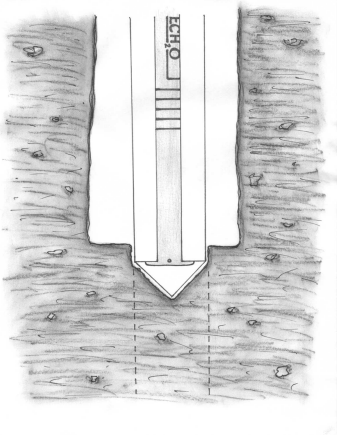
With the included extension rods, the probes can be inserted deep in the ground. 1. After the hole has been augered, bore the pilot hole as shown in steps 1-4 using the extension rods.

2. Attach the extension rods to the blue insertion tool and insert the probe as shown in steps 6-9.

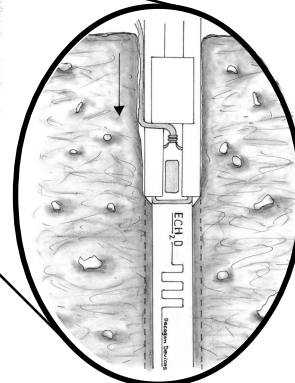


# Insert the Probe

**Step 7**  
Align the blue insertion tool so that the probe is able to slide directly into the pilot hole.

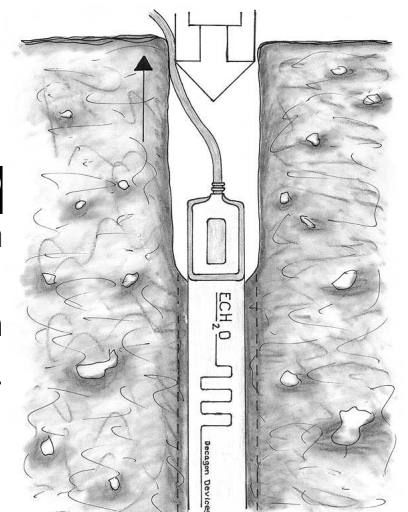


**Step 8**  
Holding the tool steady, press the T-handle down and insert the probe into the soil.

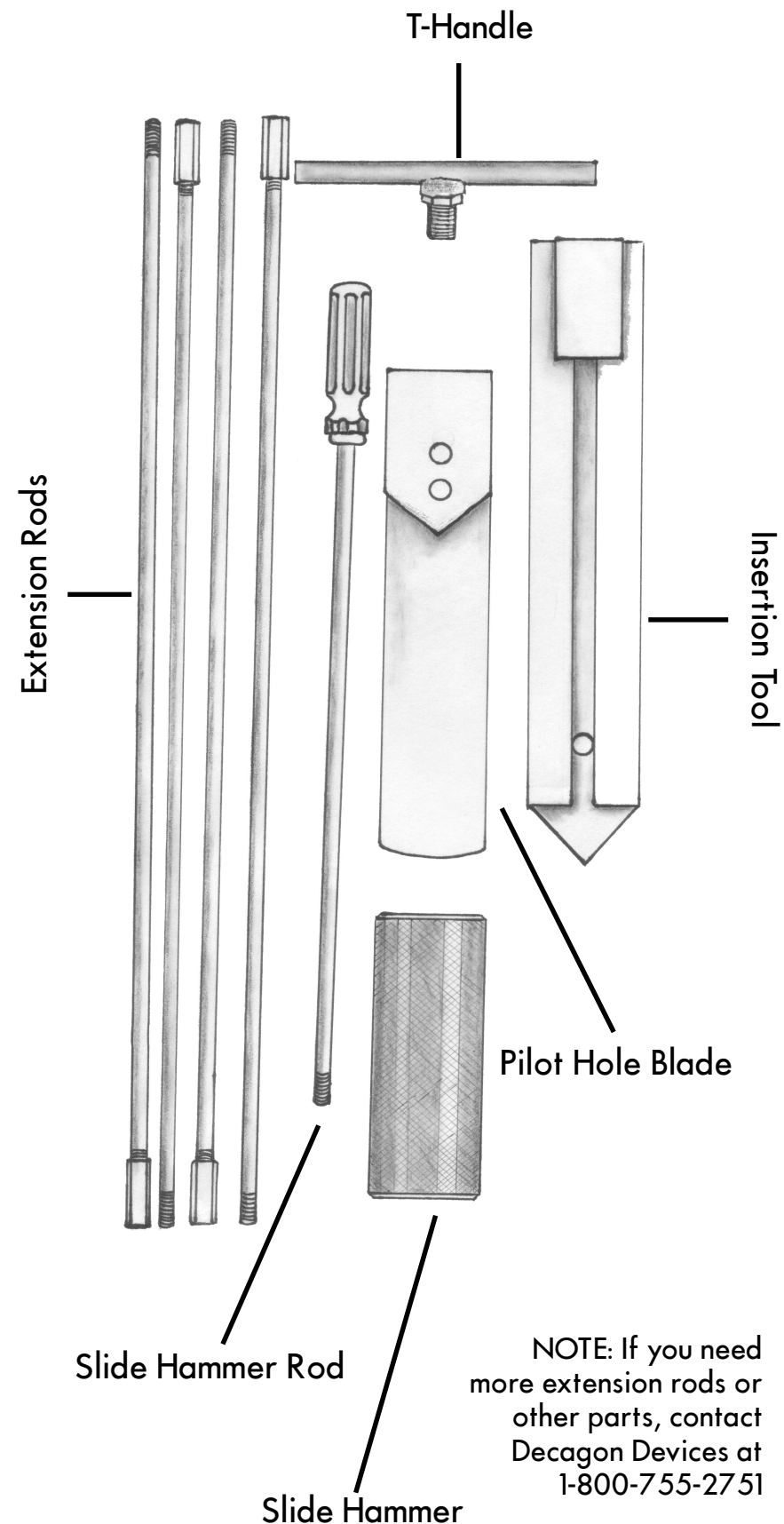


Note the location of the ECH<sub>2</sub>O probe cable, coming out the front slot of the insertion tool.

**Step 9**  
Remove the insertion tool from the soil, being careful not to pull the ECH<sub>2</sub>O probe cable out with the tool.



# Installation Tool Parts



NOTE: If you need more extension rods or other parts, contact Decagon Devices at 1-800-755-2751



## ECH<sub>2</sub>O Probe Installation Tool Manual

The Installation Tool Manual was designed to give clarification to the use of the Installation tool and help you get the most accurate reading from your ECH<sub>2</sub>O Probes.

Specifically for the ECH<sub>2</sub>O EC-10 and EC-20 Probes

## Keys to Success With ECH<sub>2</sub>O Probes

- Good soil contact with the ECH<sub>2</sub>O Probe.
- Large rocks have a lower moisture content and can cause the probe reading to be slightly lower. If the probe is located directly next to a large rock, it will include the water content of the rock in the reading.
- Avoid locating the probe in a position that would promote 'water ponding' on the probe surface.
- Keep soil disturbance to a minimum by keeping the hole diameter as small as possible. This will help you to get the most accurate soil moisture readings (consider using the Decagon Soil Auger).
- The insertion blade helps to reduce air gaps and soil compaction.
- If your sensor is not making contact with the soil at a close to normal state please call Decagon to rent or buy an installation kit.



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Decagon Part # 13369-01