

INSTRUCTIONS

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Using the JMC Backsaver Soil Sampler

No. 77414
JMC Backsaver Soil Sampler

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205 West Rankin Street
Jackson, MS 39201



The Backsaver lets you step down hard to sink your sampling tube into the ground while allowing you to control the height of the hand grip. This allows you to use your legs instead of your back when pulling a sample, preventing the risk of shoulder, wrist, arm, or back injury.

Procedure for Sampling with the JMC Backsaver Soil Sampler Equipped with a JMC Sampling Tube (Fig. 1)

1. Begin with the handle standing vertically like a capital "T."
2. To fill the sampling tube, step down on the footpedal (Fig. 1, Position 3). The action is similar to digging with a spade.
3. Lift up on the handgrip to retrieve the sample. Sampling tube may then be emptied and cleaned.
4. Insert sampling tube back into the same hole. While stepping lightly on the footpedal (Figure 1, Position 2), lift up on the handgrips. The pushrod will stop a few inches out of the handle.
5. To fill the sampling tube, step down

hard on the footpedal (Fig. 1, Position 3). The pushrod stays locked as long as your weight remains on the footpedal. You can read the height of the handgrips at any time by easing up on the footpedal and moving the handgrips to the desired height.

6. To pull a deep sample, place both feet on the ground. The footpedal now rests in Position 1 (Fig. 1). Lift up on the handgrip by bending the knees slightly and letting your leg muscles raise the tube out of the ground. Every few inches, stop to readjust the height of the handgrip. Lean the handle away from vertical by a few degrees to let the walls of the hole hold your sampling tube in place. Depress the footpedal slightly (Fig. 1, Position 2) and push the handgrips down to a more comfortable level. By repeating this push down and pull up routine a few times, the sampling tube can be made to quickly return to the surface with a minimum of effort.
7. For deeper samples, repeat steps 4, 5, and 6.

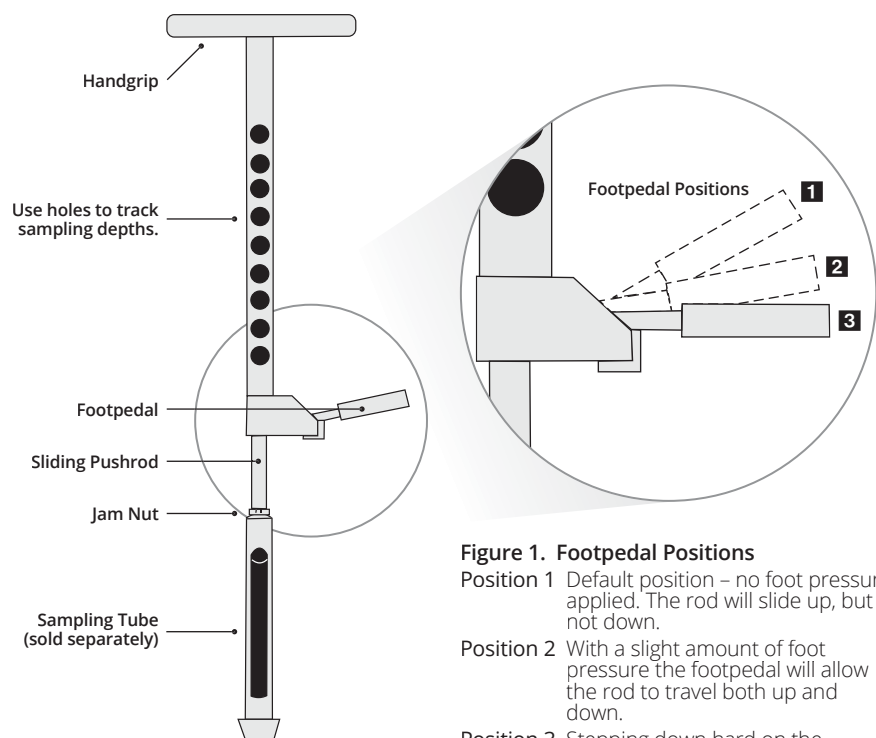
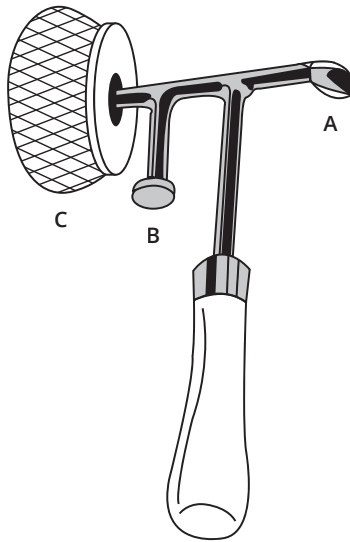


Figure 1. Footpedal Positions

- Position 1** Default position – no foot pressure applied. The rod will slide up, but not down.
- Position 2** With a slight amount of foot pressure the footpedal will allow the rod to travel both up and down.
- Position 3** Stepping down hard on the footpedal immobilizes the rod.



JMC SPECIAL CLEANER

- The JMC Special Cleaner is mounted on the handle of the JMC Backsaver Handle for rapidly preparing the sampling tube for the next sample.
- Use of the JMC Special Cleaner keeps hands clean and uninjured.
- The cleaner cleans the tube thoroughly and quickly.
- Use of the cleaner minimizes the effort needed to extract samples.

INSTRUCTIONS FOR USING THE JMC SPECIAL CLEANER



1
Clear the trough portion of the sampling tube by inserting Part A into the exposed sample and pulling Part A along the length of the trough.



2
Remove the end plug of soil from the sampling tube by placing Part B over the end of the plug and pulling on the handle of the cleaner.



3
After the sampling tube is clear of soil, apply a thin film of vegetable oil to the outside of the sampling tube with Part C of the JMC Special Cleaner.



4
Coat the inside of the sampling tube with the vegetable oil as well.



5
Work a film of oil into the cutting tip with your fingers.