

## **KIORITZ BACKPACK SOIL INJECTOR**



The 1-Two Root Injector from Nu-Arbor is a revolutionary backpack soil injector. It is designed to take the place of the classic Kioritz soil injector which is no longer produced.

This backpack injector provides a self-contained method of sub-soil application of systemic insecticides. The injector is easily transported, with no high pressure spray rig required.

**Availability:** In Stock

**Price:** \$495.00

### **Details**

**Injection depth:** 0 - 10 inches

**Includes:** Backpack, Soil Injector, & Traditional Spray Wand

**Capacity:** 4 gallons

**Delivers:** 1/4 oz per pump

The backpack design of the 1-Two injector addresses many common complaints about the original Kioritz soil injector. This backpack injector is more ergonomic because it allows the applicator to stay more upright when soil injecting. The backpack design also allows the applicator to carry much more liquid in reserve. This allows larger scale soil injection projects to be more productive and profitable.

The 1-Two injector is based off the Kioritz Soil Injector concept of a completely self contained method of sub-soil application of systemic insecticides. This allows the applicator to avoid or minimize many of the problems associated with spraying pesticides. It is also suitable for injecting concentrated liquid fertilizers. The injector is easily transported, with no hose or high pressure spray rig required. Chemical or fertilizer is delivered in a concentrated dose which reduces the weight of the unit and reduces the frequency of refilling.

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Larger Photos



## Injector Instructions

### SAFETY PRECAUTIONS

1. Before using Tank and Injector with product, fill unit with water to assure that the components are properly assembled and practice injecting.
2. Always follow chemical label directions.
3. **NEVER use the 1-Two Root injector tank with herbicides.** Herbicide residue in the tank may cause severe plant damage.
4. Always wear appropriate safety apparel as suggested on product labels.

### INTRODUCTION

The Nu-Arbor 1-Two Root Injector is designed with quality, heavy duty components to ensure years of service when maintained and used properly. Failure to maintain and regularly clean the injector and tank will greatly reduce the service life of the tool and assuredly will render the tool unusable. Follow these simple instructions for use and maintenance to ensure successful tree and shrub applications.

### ASSEMBLY

Install the pump handle onto backpack tank. Attach the supplied hose to the hose barb on the injector, clamp and you're ready to inject. An optional Quick Attach Kit (T-200) is available.

### GENERAL USE

Fill the 1-Two Root Injector tank with the desired amount of product. The product in the tank will reach the injector with minimal priming by pumping the back pack pump handle. Over pumping the back pack may cause the 1-Two injector spring T-131 to compress and leak product. The 1-Two injector is generally self priming after the initial prime. Each strike of the injector knob dispenses approximately ¼ ounce of product.

### INJECTING NU-ARBOR ROOT FERTILIZER

NU-ARBOR Root Fertilizers are very high quality and can be injected straight in concentrated form. To fertilize with the NU-ARBOR 1-TWO Root Injector, apply one ounce of concentrated NU-ARBOR Root Fertilizer per inch of tree circumference (*i.e.*, 3 oz/inch dbh).

Fill the 1-Two Injector tank with Nu-Arbor Root Fertilizer. No need to dilute with water. Begin the injection pattern near the base of the tree. Strike the 1-Two Injector knob two times per injection site to deliver ½ ounce of fertilizer. Continue around the tree's root zone making holes 2-3 feet apart until the desired amount of NU-ARBOR Root Fertilizer is delivered.

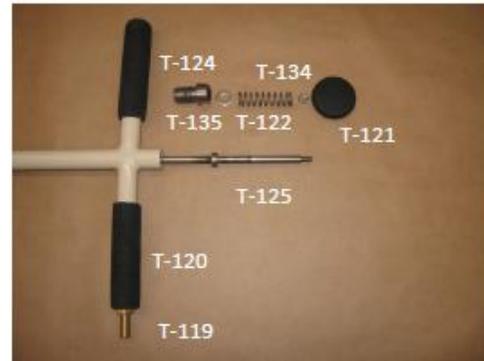
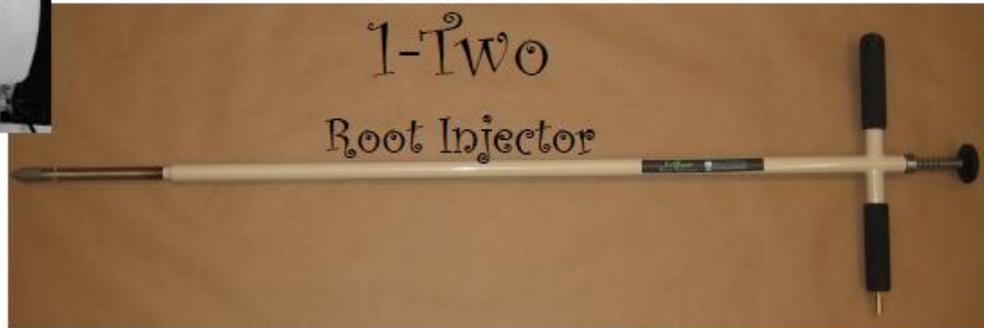
### MAINTENANCE & CLEANING

Simple cleaning is essential when you are done using the NU-ARBOR 1-Two Root Injector for the day. Empty any unused NU-ARBOR Fertilizer that remains in the tank into its original container. Add a ½ gallon of water to the tank and pump it through the root feeder. The tank pump handle can speed this process up. Fertilizer left in the tank for extended periods of time can potentially ruin the device. Store the injector and tank dry when done for the season. This is particularly important when storing tool in climates subject to freezing temperatures.



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## Injector Parts



### Parts List

- T-119 Hose Barb
- T-120 Grips
- T-121 Pump Knob
- T-122 Return Spring
- T-123 Rod Seal (inside T-124)
- T-124 Cap
- T-125 Rod
- T-126 Body
- T-127 Piston
- T-128 Pressure Seals
- T-129 Ball Bearings
- T-130 Roll Pin
- T-131 Check Spring
- T-132 Driver
- T-134 Nut
- T-135 Washer

### Not Pictured

- T-118 Hose Clamp
- T-117 Hose

### Spare Parts Kit

- T-301 Contains 122, 123, 128 (3), 129 (2), 131, 132

### Optional Equipment

- T-200 Quick Attach Kit (T-238, 239, 240)
- T-238 Hex Nipple
- T-239 Mail Quick Connect
- T-240 Female Quick Connect
- T-241 Hose Barb



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