Wedgle® Direct-Inject™ TREE INJECTION SYSTEM

Quick Start Guide

Follow these steps to make sure that your injector will operate properly. This should be done when you first receive the unit OR if the injector has not been used for several days.

1. Remove the Dust Plugs. (#18)

2. Connect the Hose Cleaning Adapter (#11) to a garden hose or spigot.

3. Connect the Hose Cleaning Adapter to the Inlet Quick-Connect (#48).

4. Slowly turn on the water and allow the water to run through the injector for at least 30 seconds.

5. While the water is running, pull back the handles several times. Turn off the water and disconnect the injector.

Proceed to “Priming the Direct-Inject QC injection unit” on Page 2.

TABLE OF CONTENTS

Preparing for use 2
Selecting an Injection Tip 3
Injecting Hardwoods 4-5
Injecting Conifers 6-7
Parts Chart 8-9
High Volume Kit 10
Maintenance 12
Troubleshooting 14

Instruction Guide

The Wedgle Direct-Inject Tree Injection System features two Quick-Connect (QC) couplers. The QC coupler on the top of the unit lets you easily attach chemical packs to the injection unit. The QC coupler on the front of the unit accepts a variety of injection tips. With the QC couplers, you simply slide back and hold the outer ring, insert a chemical pack or injection tip, then release—the coupler snaps back and locks in place.

Preparing for use

Remove and save the dust plugs

Locate the Top QC Coupler (#48) on top of the unit. Slide and hold down the outer ring of the coupler and remove the dust plug. Repeat on the Front QC Coupler (#17). **The Dust Plugs must be removed prior to use, and should be saved and reinserted when the unit is not in use.**

Priming the Wedgle Direct-Inject unit

It is preferable to prime the unit with an ArborSystems water pack to avoid wasting chemical. To attach the water pack to the injection unit, first remove the white plastic cap from a 120 ml water pack (be sure to keep the white plastic cap). Locate the QC Coupler (#48) on top of the unit. **Slide and hold down the outer ring of the coupler.** Insert the stem of the pack into the coupler. Release the coupler to secure the pack to the Wedgle Direct-Inject unit.

Prime the unit without an injection tip attached. Always prime the unit with the injection tip removed. Prime by squeezing the handles rapidly several times, forcing the air out of the unit. Continue to squeeze the handles till water comes out the unit. When the unit is primed, slide and hold down the outer ring of the top coupler to remove the water pack. Replace the white plastic cap on the pack when the pack is not attached to the Wedgle Direct-Inject unit.

Attaching a chemical pack

To attach any ArborSystems 120 ml chemical pack to the injection unit, first remove and save the white plastic cap, then attach the pack to the unit following the same process as attaching water pack (As Described Above). To attach a 1000 ml chemical pack, you will need the high-volume hose included in the High-Volume Kit. (Sold separately, see page 10.) Using the coupler process, attach one end of the hose to the top QC Coupler (#48); attach the other end to the 1000 ml chemical pack.

Attach an injection tip (see instructions on pages 4 and 6).

Squeeze the handles on the injection unit twice to remove the water or previously used chemical from the unit. Be sure to replace the white plastic cap on any pack when pack is not attached to the injection unit.

How-To Videos

Many of the use and maintenance instructions in this brochure are also offered in video form on our website. Visit the How-To section of our website to view these helpful How-To Videos.

View at www. ArborSystems.com

ArborSystems
Tree Injection Solutions

Selecting an Injection Tip

Wedge .5"
Wedge .75"
Wedge .75" SP
Wedge 1.5"

WedglePlus .5"
WedglePlus .75"
WedglePlus 1.5"

Portle .5"
Portle .75"
Portle 1"
Portle 1.5"

Portle 3"

Tips come in many diferent lengths.

Popular lengths are 3/4", 1", and 1-1/2"

Contact your distributor for additional tip lengths.

Custom tip lengths are available on request for an additional charge.

Original Wedgle® Tips

Ideal for most hardwoods, the Wedgle Tip features a patented wedge-shaped end which delivers chemical precisely to a tree's cambial zone, the space between the bark and the outer ring of sapwood. Used with self-sealing WedgeCheks™ which keep chemical in the tree when tip is withdrawn.

WedglePlus™ Tips

Designed for injecting larger quantity of chemical. Same Wedgle Tip design with check valve in hub. Used with WedgeCheks. Check valve lets you remove the injection unit from the tip so you can make other injections while letting the tree absorb chemical.

Portle® Tips

Ideal for injecting conifers, the Portle Tip has openings, or ports, along the length of the tip which inject chemical at multiple locations. A check valve in the hub of the tip keeps chemical in the tree while all injections are being made. Portle Tips are also useful for injecting difficult-to-treat hardwoods or when making large-volume injections (such as for Dutch Elm disease or Oak Wilt) or late season injections when most trees are harder to penetrate.

Portle® Palm Tips

The Portle Palm Tip has openings, or ports, along the length of the tip which inject chemical at multiple locations similar to the Portle Tip. The chemical ports are recessed to minimize plant material from clogging the tip. A check valve in the hub of the tip keeps chemical in the tree while all injections are being made. Some palms require a starter or pilot hole to be drilled so injection tips can be easily inserted through the husk. An 8" Portle Tip is also available for injecting heavy husks.

Always read and follow label instructions when using ArborSystems chemicals and use the appropriate Personal Protective Equipment (PPE).

Injecting Hardwoods

1. Select the correct length tip. The standard .75" Wedge Tip is used for most hardwood trees; the longer 1.5" tip is for thick-barked trees such as elms and eucalyptus. To determine which length tip to use, grasp a short Wedge Tip at the hub, then push it through the bark until you feel resistance of the tip as it reaches the outer ring of sapwood (xylem). If you do not feel the tip reach the wood, switch to the longer Wedge Tip.

2. Attach a Wedge Tip to the Front QC Coupler (#17) by sliding back the coupler and inserting the tip hub. Release to lock the tip in place. Be sure to position the tip so the small hole on the barrel of the tip is directed upward.

3. Position the Deflector Shield. Slide the Shield (#46) over the tip until positioned snugly against the hub. Set the injection unit aside.

4. Remove a bark core. Working around the flare of the tree, within 12" of the ground, insert the SpeedChek™ WedgeChek Punch into the tight bark plate and rotate the punch in both clockwise and counterclockwise motions. Withdraw the punch with a straight motion, removing a small core of bark from the tree. Squeeze the punch trigger to remove the bark core from the punch into the palm of your hand. Examine the core to make sure the entire core has been removed. If part of the core remains in the tree, the SpeedChek WedgeChek may not seat properly. Use the punch to remove the remaining core or repeat the procedure at a new location.

Note: Avoid moving the punch side to side or up and down as this may enlarge the hole in the bark and cause the SpeedChek WedgeChek to not seat firmly.

5. Insert a SpeedChek WedgeChek into the site where bark core has been removed. With a SpeedChek WedgeChek strip inserted in the SpeedChek WedgeChek Punch, position the cone shaped end of the punch over the punched site. Using the palm of your hand, press firmly on the plunger to insert a SpeedChek WedgeChek into the punched hole. The barbs on the SpeedChek WedgeChek will secure it in the bark. See notes on Page 5 for treating thin-barked trees.

6. Slide the Wedge Tip through the SpeedChek WedgeChek and bark with a straight, gentle motion until you feel resistance of the tip meeting sapwood. Do not jab Wedge Tips into a tree, as tips may bend or break.

Do not force the tip into the sapwood. Only moderate hand pressure is needed. If the correct tip length was selected, it will usually be inserted no more than three-quarters of the length of the tip. The tip should be inserted so chemical will be delivered to the cambial zone; between the bark and the outer ring of sapwood (xylem).

7. Squeeze both handles of the injector at the same time, using a smooth, firm motion. This places a pre-measured dose of chemical into the cambial zone between the bark and the xylem, where it can easily be absorbed. Apply equal pressure on both handles—unequal pressure may bend or break the tip. Follow chemical label instructions to determine correct dosage, and number and spacing of injection sites.

8. Slowly remove the Wedgle Tip from the tree. The self-sealing WedgeChek plugs the hole. Repeat these steps while moving around the flare of the tree. Leave the WedgeCheks in the tree. Tree growth will eventually push the WedgeCheks out.

9. If using a WedglePlus Tip you may remove the injection unit from the tip, allowing additional time for the tree to absorb chemical while you make other injections. Use the check valve in the tip hub to test if chemical has been fully absorbed. See step 7 on page 7 for more details.

Wedgle Direct-Inject unit is preset to release a 1 ml dose of chemical with each full stroke of the handles. If you desire to inject a .5 ml dose of chemical, move the Dose Adjustment Ring (#25) to the .5 ml Dose Adjustment Groove (#52). This will limit the handle stroke so the unit will release a .5 ml dose of chemical. (see page 9)

Avoiding chemical waste: Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack and replace with a water pack before making your final injections. You will be able to make two additional 1 ml injections (or four or five .5 ml injections) with the chemical remaining in the injection unit. Be sure and replace the cap on the chemical pack when you remove it from the injection unit.

Benefits of making injections at the base, or flare, of the tree:

- When controlling cambial feeding borers, it is crucial that injection occurs in the flare, so the entire trunk is treated. Chemical will distribute more evenly throughout the tree.
- Injecting greater volumes of chemical such as fungicides is easier.
- For tough-barked trees, such as hackberry and hickory, the flare offers a more pliable area of injection.
- If any sap or chemical seepage occurs, it is less visible at the base of the tree.
- The base or flare of the tree provides best lateral movement of chemical.

Timing of applications: Spring through late summer is the ideal time for injecting hardwoods. The bark needs to be pliable, and that depends on the growing season. Chemical injected too early or too late in the season may not be absorbed because of slow or no translocation occurring in the tree. Read and follow chemical label instructions.

Notes on treating thin-barked trees: Chemical retention is improved when injections are made through the thickest available bark, generally found around the flare or base of the tree. For small trees, you may want to pull some soil away from the base and inject below grade where the bark is thicker and moist. You may reduce the amount of chemical per injection and increase the number of injection sites. Do not be concerned if the WedgeChek does not fully insert into the bark—barbs will hold the WedgeChek in place.

Injecting Conifers, Palms, and some Hardwoods

Conifers, palms, and some hardwoods may be treated using the Wedgle Direct-Inject unit with Portle or Palm Tips and the Tip Setter. The Tip Setter is used to drive these heavier injection tips deep into the active areas of conifers and palms, or through thick, tough outer bark of some hardwoods. WedgeCheks are not needed when using Portle or Palm Tips. You will need multiple tips to treat each tree; several of each type of tips, as well as the Tip Setter, are included in the Deluxe Wedgle Direct-Inject Kit. Additional tips may be purchased separately.

Note: Many conifers contain resin that may clog Portle Tips. Read all instructions before making injections.

1. Connect a Portle Tip or Palm Tip to the Tip Setter.

The Tip Setter (#74) uses a QC coupler to hold injection tips in place. Slide back the coupler, insert the hub end of a tip, then release to secure the tip in the setter.

2. Tap the injection tip into the tree using the sliding action of the Tip Setter.

Place the tip against the bark, selecting a location where the bark is firmly adhered to the tree. Grasp the slide. Beginning gently, then with increasing force, tap the tip into the tree until the front of the hub is in tight contact with the bark.

It is important to keep the rear handle of the Tip Setter directly behind the tip in order to guide the tip into the tree without bending the tip. When inserting or removing Portle or Palm Tips, it is important to keep the setter perpendicular to the tree. Do not twist or move the setter or injector unit side to side, as this may bend or break the injection tip.

3. Disconnect the setter from the injection tip.

Pull back on the QC coupler, remove the setter, and leave the injection tip in the tree.

Many conifers contain resin that may clog Portle Tips if they are left in the tree too long before making the chemical injection, or if they are left in the tree longer than is necessary to allow the chemical to be absorbed.

To avoid clogging, make the chemical injection immediately after inserting the tip and remove tip as soon as chemical is absorbed. Read all instructions before making injections.

When treating palms or hardwoods you may continue inserting tips around the tree, following the spacing and number of injection sites information on the chemical label.

4. After tips are set in the tree, connect the Wedgle Direct-Inject unit to the tip.

While pulling back on the Front QC Coupler (#17), slide the injection unit over the tip, then release the QC Coupler to lock the injection unit to the tip.

5. Squeeze both handles of the injector at the same time using a smooth, firm motion.

This delivers a pre-measured dose of chemical into the tree. Apply equal pressure on both handles— unequal pressure may bend or break the tip. Follow chemical label instructions to determine correct dosage, and number and spacing of injection sites.

6. After completing the injection, disconnect the injection unit from the tip.

Leave the tip in the tree. **Do not pull the tip out of the tree while it is connected to the injection unit**, as this may cause unwarranted damage to the injection unit or injection tip.

7. Check that absorption is complete. Tip should not be removed from the tree until the chemical has been absorbed, which may take up to five minutes.

Individual trees absorb chemical at different rates and weather conditions affect absorption rate. You may need to leave the Portle Tips in some trees longer than others, depending upon how fast the tree is absorbing the chemical.

Each Portle Tip has a check valve in the hub which keeps chemical from coming out after the injection unit is disconnected from the tip. The check valve is visible only after the injection unit has been removed from the tip.

To test if the chemical has been fully absorbed, slightly depress the check valve in the tip hub. If chemical comes out of the check valve, wait a minute or two and retest. If no chemical comes out, the tip is ready to be removed.

8. Remove the injection tips from the tree. Reconnect the setter to the tip and slowly remove the tip by pulling firmly on the slide with a straight rearward motion. Hold the setter perpendicular to the tree to avoid bending the tip.

NOTE: If you have injected more than 2 ml of chemical in a single injection site, some chemical may follow the tip out of the tree as you withdraw it, regardless of how long the tip has been in the tree. Withdrawing the tip slowly will minimize chemical loss.

Successfully injecting conifers, palms, and some hardwoods

Injecting conifers Individual trees absorb chemical at different rates. You may need to leave the Portle Tips in some trees longer than others, depending upon how fast the tree is absorbing the chemical.

To test if the chemical has been fully absorbed, slightly depress the check valve in a tip hub. If no chemical comes out, the chemical has been absorbed by the tree and tips can be removed. If chemical comes out of the tip, leave all the Portle Tips in the tree for a few more minutes until the chemical is fully absorbed.

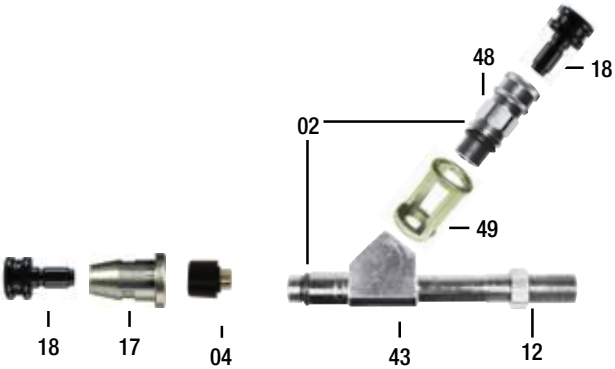
Some conifers contain resin that will clog Portle Tips if they are left in the tree longer than is necessary to allow the chemical to be absorbed. To avoid clogging, remove tips as soon as chemical is absorbed and submerge tips in alcohol (Use the tip cleaning and storage container included with the Portle kit).

If you have injected more than 2 ml of chemical in a single injection site, some chemical may follow the tip out of the tree as you withdraw it, regardless of how long the tip has been in the tree. Withdrawing the tip slowly will minimize chemical loss.

Injecting Palms Due to the toughness of some species of palms, it may be necessary to drill a 7/64" starter or pilot hole before placing the Portle Palm Tip into the plant.

#	Part #	Description
02	PASW202-PK*	QC Coupler Outer O-Ring †
	PASW203-PK*	QC Coupler Inner O-Ring † (not shown)
04	PASW204	Replaceable Outlet Check Valve †
09	PASW209	Screw Lever Pivot
12	PASW12	Lock Nut
13	PASW13-PK*	Piston O-Ring †
17	PASW217	Front QC Coupler
18	PASW218	Dust Plugs (2)
23	PASW23	Piston Spring
25	PASW25	Dose Adjustment Ring
26	PASW226	Piston Connector Rod
28	PASW28	Lever Nut
41	PASW241	Handle and Lever Assembly
43	PASW243	Main Body
44	PASW244	Piston (includes #13)
48	PASW248	Top QC Coupler (includes #2)
49	PASW249	Top Coupler Stabilizer
52		.5 ml Dose Adjustment Groove
66	PASW66	Rear Hand Grips (2)

*Sold in packs of three O-Rings. †Part of Annual Maintenance Kit



Accessories

PASW201
Connection Hose

PAWP71
WedgeChek Punch Tip

PAWP74
Setter Quick Connect Coupler

#46 - PASW246
Deflector Shield

#72 - PAWP72
WedgeCheks

PAWP75-5
SpeedChek WedgeChek Cone

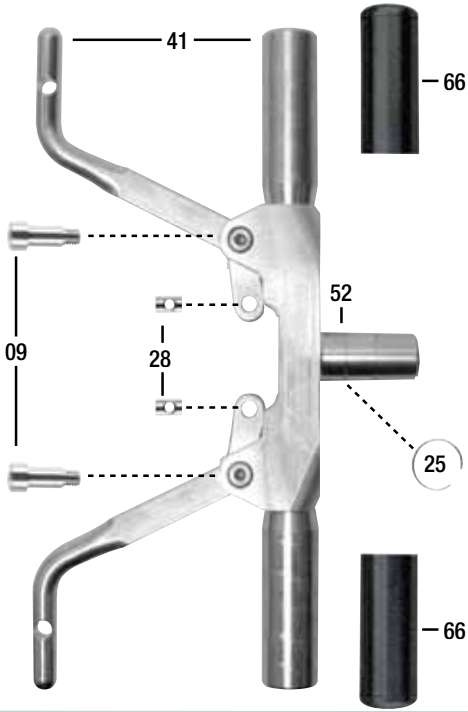
#49 - PASW249
Top Coupler Stabilizer

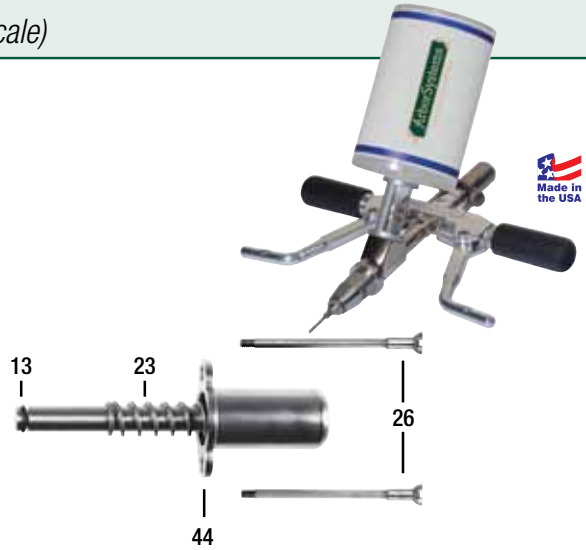
PAWP75
SpeedChek™
WedgeChek™ Punch

#74 - PAWP270
Tip Setter

PASWK203
Annual Maintenance Kit

#10 - PASWT002
Multi-Purpose Tool





#11- PASWT003 Garden Hose Adapter	PASWT103 Baseball Cap	PASWT105 Tape Measure
PASWT004 Valve Tool	PASWT104 Safety Glasses	PASWT106 Cleaning Brush
PASWT101 Needle Container	Direct Inject Case	PASWT107 Rubber Mallet
PASWT102 Parts Container		PASWT108 Kneeling Pad

High-Volume Kit *(Sold separately)*

Make up to 1000 injections without reloading chemical. Simply attach the hose to the Wedgle Direct-Inject unit** and the 1000 ml chemica pack,** prime, and inject. No other tools, equipment, or power supply are needed.

1. Remove the yellow cap from the hose guide by unscrewing. Remove the adaptor sleeve from inside the hose guide.
2. Slide the High-Volume Hose through the yellow cap and into the hose guide, pulling the hose through the chemical pack cage and out the top of the backpack‡

3. Attach the hose to a 1000 ml chemical pack** using the same method as you attach a 120 ml chemical pack to the injection unit (see instruction on page 2).
4. Carefully pull the hose and chemical pack into the cage inside the backpack until the chemical pack rest snugly against the hose guide.
5. Secure the chemical pack in the cage with the closure pin.

6. Place the adaptor sleeve over the hose and slide the sleeve into the hose guide.

7. Screw the yellow cap onto the hose guide and hand tighten.
8. Attach the hose to the Top QC Coupler (#48) on the injection unit.
9. Prime and you are ready to begin injecting.

NOTES: When priming or using the High-Volume Kit, the chemical pack should always be at or above the injector.

The High-Volume Hose contains approximately 30 ml of chemical when primed. Priming the hose will take 30 or more pumps of the injector to fill.

‡Picture may differ from actual product.
**Sold separately

Insecticides

Boxer
Two-year control of Emerald Ash Borer and other insects and mite pests.

Boxer® Insecticide - Miticide

Pointer
Proven control of EAB, HWA, Spotted Lantern Fly and many other pests.

Pointer® Insecticide

Retriever
Control of Aphids, Caterpillars, Scale, Japanese Beetles, Leaf Miners, Leafhoppers and other pests.

Retriever® Insecticide

Fungicides

Shepherd
Prevent Oak Wilt, Abnthracnose, and many leaf diseases.

Shepherd® Fungicide

Whippet
Prevent Sudden Oak Death with a variety of diseases.

Whippet® Fungicide

Systemic Antibiotics

Terrier Antibiotic
Provides seasonal suppression for a variety of diseases.

Terrier™ Systemic Antibiotic

Springer Antibiotic
Provides seasonal suppression of lethal yellows disease in palms.

Springer™ Systemic Antibiotic

Plant Growth Regulator

Pinscher PGR
End messy fruit and seed cleanup

Pinscher® PGR

Nutriboosters

GreenTree Pro Nutriboosters 0-15-10 with Iron
Help trees regain health and vitality while promoting leaf-out and green up.

GreenTree Pro Nutriboosters® 0-15-10

Iron Nutriboosters
Effectively fight chlorosis, help trees green up.

Iron Nutriboosters®

Iron/Manganese Nutriboosters
Yellow, crinkled leaves? Try our combo.

Iron/Manganese Nutriboosters®

Manganese Nutriboosters
Help trees recover from manganese deficiency.

Manganese Nutriboosters®

PK Pro Nutriboosters 0-36-23
Boost recovery from stress, construction.

PK Pro® Nutriboosters® 0-36-23

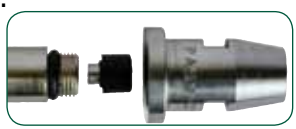
Make your last 2 ml injections of the day after removing the chemical pack; see Avoiding Chemical Waste note on page 5. Dispose of any chemical remaining in the injection unit following label instructions.

Daily water flush

When you are finished making injections for the day, it is important to water flush your Wedgle Direct-Inject unit. This will keep the injection unit from clogging.

You can water flush the injection unit using a container of **clean** water or the Garden Hose Adapter (#11). When using the container method, submerge the unit until the Top QC Coupler (#48) is underwater, then squeeze the handles five to ten times to flush the unit. To use the Garden Hose Adapter (#11) , follow the instructions on page 13. After flushing the unit, remove the injection tip from the injection unit. Replace Dust Plugs (#18) on both QC Couplers.

Replaceable Outlet Check Valve



Newer models of the injection unit are equipped with a Replaceable Outlet Check Valve (#4). If you have determined that the outlet check valve is not operating correctly (see Troubleshooting, section B, on page 14) and your injector will not prime, remove the Front QC Coupler (#17), remove the Replaceable Outlet Check Valve, insert a new check valve into the Main Body (#43), and reattach the Front QC Coupler. If you have an older injection unit without a Replaceable Outlet Check Valve, contact your distributor.

Replace piston O-ring each spring

At the beginning of each growing season, or if your injection unit has been unused for several months, replace the piston O-ring. To replace the piston O-ring, use the screwdriver end of the Multi-Purpose Tool (#10) to unscrew the two Piston Connector Rods (#26). Be careful not to lose the Lever Nuts (#28) from inside the handles. Pull the piston assembly out of the handle, revealing the Piston Spring (#23) and Piston (#44) and replace the O-ring (#13—the smallest O-ring in the parts kit). Prior to reassembly, apply a small amount of lubricant, such as Vaseline® Petroleum Jelly, to the piston O-ring and piston rod. Carefully slide the piston assembly back into the barrel of the handle. If the piston assembly does not slide in smoothly, rotate the piston assembly 180 degrees. Reattach the connector rods into the lever nuts. These parts are small and can take a little time to align properly. You can use a paper clip to help align the lever nut with the connector rod.

When tightening the rods with the screwdriver, make sure there is no play between the right and left handles. A slight adjustment may be necessary. Tighten the rods snugly, but do not over tighten.

QC Coupler O-ring maintenance and the Top Coupler Stabilizer

QC Coupler O-rings may be replaced if a coupler is not sealing correctly.

There is a large O-ring (#02) at the base of the Top QC Coupler (#48). Use the Multi-Purpose Tool (#10) to remove the coupler from the injection body and replace the O-ring. If your injector is equipped with a Top Coupler Stabilizer, pass the larger U-shaped portion of the wrench through the stabilizer and rotate the coupler and the stabilizer at the same time.

There is a medium-sized O-ring (#03) inside each coupler. These can be replaced while the coupler is attached to the body of the unit. Use a paper clip to remove the old O-ring and to help insert the new one.

Using the Garden Hose Adapter

1. Attach adapter to a garden hose or water spigot.

2. Slide and hold down the outer ring of the Top QC Coupler (#48) on the injection unit.

3. Insert the narrow end of the hose Top QC Coupler (#48).

4. Slowly turn on the water supply and allow the water to flush the injection unit.

5. Remove the injector from the hose adapter.

NOTE: The Garden Hose Adapter is not designed to "snap" into couplers. Slide back the outer ring of the coupler and insert the adapter. The outer ring of the coupler will not return to the "locked" position while the adaptor is in use.

Resources for Professionals Available at ArborSystems.com

Find our product?
Distributor search is available onour website for searching by state or zip code. (Please contact us directly if you are outside the United States).

Learning or training?
Watch the how-to-videos or download free information from our website.

Need to know the chemical amount to use for a tree?
Use our application calculator to assist in your planning but always read and follow the label instructions.

Growing your business?
Use the marketing materials that include flyers, brochures and direct mail postcards available for free download from our website.

Which state is a product registered?
Refer to Chemical Registered by State located on the ArborSystems website under the Professionals tab.

Require label information?
Find specimen labels, safety data sheets (SDS) and other information on our website.

Where will you find ArborSystems?
See our calendar on our website for events, trade shows and meetings to see ArborSystems products.

Looking for news and industry updates?
Read and follow our blog for the latest news from ArborSystems and arborists. tree care professional and urban foresters using our products.

Troubleshooting

If your injector will not prime or if you suspect that your injector is not delivering 1 ml per injection, the problem most likely will be in either the inlet or outlet check valves. The following steps will assist you in determining which check valve is at fault. You will need the Multi-Purpose Tool (#10), a Garden Hose Adapter (#11), garden hose or spigot, and the malfunctioning injection unit.

A. Troubleshooting the inlet check valve

1. Remove the injection tip and chemical pack from the injection unit.

2. Attach the Garden Hose Adapter (#11) to a garden hose or water spigot.

3. Insert the Garden Hose Adapter into the Top QC Coupler (#48) (See page 13 for use instructions).

4. Slowly turn on the water. The water should come out of the Front QC Coupler (#17).
   If it does, proceed to section B.

5. If the water does not come out of the Front QC Coupler, turn off the water and remove the Garden Hose Adapter from the Top QC Coupler.

6. Remove the Top QC Coupler using the Multi-Purpose Tool.

7. Attach the Garden Hose Adapter to the unattached top QC Coupler.

8. Slowly turn on the water and observe if water flows through the Top QC Coupler.
   If water flows though the Top QC Coupler, the inlet check valve should be operating correctly.
   Proceed to section B.

B. Troubleshooting the outlet check valve

1. This is the check valve near the Front QC Coupler (#17). You should have already completed steps 1-4 in section A. If you have not already done so, turn off the water, remove the hose adapter and then remove the Top QC Coupler.

2. Insert the Garden Hose Adapter into the Front QC Coupler.

3. Slowly turn on the water and observe
   a. If water flows in the reverse direction (out of the top), the outlet check valve is not working properly.
   b. Newer injectors are equipped with a Replaceable Outlet Check Valve (#4). Follow the steps outlined in The Replaceable Outlet Check Valve section on page 12.
   c. If your injector is not equipped with a Replaceable Outlet Check Valve, (#4) you may be able to remedy the problem by reattaching the Top QC Coupler and repeating all of the troubleshooting steps.
   d. If water continues to flow in the reverse direction, contact your distributor or ArborSystems for assistance.

4. Successfully completing these steps should have corrected the priming issues. Reattach the Top QC Coupler and try priming the injector again. If your injector fails to prime, contact your distributor or ArborSystems for assistance.

Notes

Insecticides • Fungicides • PGR • MicroNutrients • Antibiotics

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Nutriboosters®
Pinscher®
PK Pro®
Pointer®
Portle®
Retriever®
Shepherd®
SpeedChek®
Wedgle®
Whippet®

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Direct-Inject QC™
Direct-Inject™
Greyhound™ Insecticide
Quick-Connect™
Springer™ Antibiotic
Terrier™ Antibiotic
WedgeChek™

Patents
Wedgle® Direct-Inject™ unit is protected by U.S. Patent #5,901,498
Wedgle® Tip is protected by U.S. Patent #5,239,773
WedgeChek™ is protected by U.S. Patent #5,797,215
Portle® Tip is protected by U.S. Patent #7,178,286

Notice of Warranty
ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, expressed or implied, concerning this product.

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