

Drip Irrigation Kit Installation Manual

Drip Irrigation Kit for Row Crops



Models:

- Starter Kit: 100 Feet (DK-RCS)
- Medium Kit: 200 Feet (DK-RCM)
- Large Kit: 300 Feet (DK-RCL)
- Extra Large Kit: 500 Feet (DK-RCXL)
- Jumbo Kit: 750 Feet (DK-RCJO)



Starter Kit

Medium Kit

Large Kit

Extra Large Kit

Jumbo Kit

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Description

Contains everything you will need to go from hose bibb (faucet) to your garden rows. Drip Tape rows attach directly to 1/2" solid poly drip tubing.

- **Starter Kit:** 100 total feet. 5 rows at 20 feet each.
- **Medium Kit:** 200 total feet. 10 rows at 20 feet each.
- **Large Kit:** 300 total feet. 15 rows at 20 feet each.
- **Extra Large Kit:** 500 total feet. 25 rows at 20 feet each.
- **Jumbo Kit:** 750 total feet. 37 rows at 20 feet each.

A Hose End Timer (DD-HEDT) can be purchased separately.

Maximum Flow Rate Required when kit is fully installed (using all drip tape in kit): *Starter Kit: 40 gph, Medium Kit: 80 gph, Large Kit: 120 gph, Extra Large Kit: 200 gph, Jumbo Kit: 300 gph*

Installation: Overview

You will attach a Hose Vacuum Breaker, Filter, and Pressure Regulator to the faucet or garden hose. The supply line is 1/2" Solid Drip Tubing and is run at one end of garden rows. Drip tape rows are connected to 1/2" drip tubing with a barbed drip tape take-off fitting. We've included stakes for the 1/2" tubing. Drip tape is buried below the soil 4" - 6".

Installation: Step-by-Step

Roll the poly tubing out in the sun to soften. Weigh it down and let the sun heat the tubing. This will make it easier to work with.

Step one: Connecting to the Hose Bibb

1. Screw the **Hose Vacuum Breaker** (DD-HVB) onto the faucet. *Note: If you have purchased an optional Hose End Timer (DD-HEDT) screw it onto the faucet first. Then attach the Hose Vacuum Breaker to the Hose End Timer.*



2. Screw the **Filter** (DD-YS75HFM-200) onto the Hose Vacuum Breaker.



3. Screw the **Regulator** (DD-HPR10) onto the Filter.



4. Screw the **Direct-Loc Swivel Adapter** (DL-FHS600) onto the regulator.



Step Two: From the Hose Bibb to the Garden

1. Attach **1/2" Drip Tubing** (DD-DH700) to the 1/2" swivel adapter and run it to one end of the garden rows.



2. Secure the drip tubing in place with **8" Wire Stakes** (DD-S8).



3. Add a **Direct-Loc Threaded End Cap** (DL-EC600) to the end(s) of 1/2" drip tubing. Leave the cap off for flushing.



4. Turn on the water and **FLUSH THE LINE** until all lines are clear of debris. Replace the 1/2" threaded end caps at the ends of the 1/2" drip tubing.

Step Three: Installing Drip Tape Rows

1. At each garden row use the **Deluxe Hole punch** (DD-HP250) to poke a hole in the 1/2" tubing.



2. Insert the 1/4" barb of the **Drip Tape 5/8" x 1/4" Barb fitting** (DT-TO250) directly into the 1/2" tubing until it snaps into place.



3. Screw the collar of the **Drip Tape 5/8" x 1/4" Barb fitting** down toward the fitting to expose the drip tape barb. Slip the **Drip Tape** (DT-1508HF-100 or DT-1508HF-500) over the barb. Screw the collar in the other direction so that it tightens down over the drip tape.



4. Roll drip tape down the row and cut with scissors to the desired row length.
5. Slide drip tape through the narrow end of the **Drip Tape End** (DT-TSE) so that it sticks out of the other end a few inches. Fold over two or three times. Pull back tubing lock it in place.



6. Your kit contains one or more threaded end caps. Attach a **Tape Loc x Male End with End Cap** (DT-EC58) to the end of a line for easier line flushing.



7. Drip should be buried 4"-6" below the soil surface. You may want to leave the ends of the tubing exposed slightly so that you can find them and flush the lines annually.
8. Turn on your system and check each row for water output.

- **Goof Plugs** (DD-GP) are used to plug holes in 1/2" drip poly tubing.
- The **Direct-Loc Coupling** (DL-C600) is used to connect 1/2" solid drip tubing or for repairs in 1/2" tubing that goof plugs can't handle.
- The **Direct Tape 5/8" Loc Coupler** (DT-C58) is used to connect or repair 5/8" drip tape.

Parts List

	ITEM	Quantity					PART #
		S	M	L	XL	JO	
	Hose Vacuum Breaker Prevents contamination of your water supply by stopping the flow of water from your drip irrigation system back into your household water.	1	1	1	1	1	DD-HVB
	Y Filter with hose threads Installed between the hose vacuum breaker and the drip regulator. Protects drip emitters from impurities that may clog them. 200 mesh screen.	1	1	1	1	1	DD-YS75HFM-200
	Pressure Regulator - 10 psi Hose thread regulator. Reduces household water pressure to a set pressure for use with a drip tape row crop system.	1	1	1	1	1	DD-HPR10
	Direct-Loc Swivel Adapter with hose threads Connects 1/2" drip tubing to faucet, spigot, hose bibb. Connects to 3/4" male hose threads. Screws onto a drip regulator. Convenient removable fitting.	1	1	1	1	1	DL-FHS600
	1/2" Drip tubing (700 series) - 50 foot roll 1/2" poly tubing for main lines. Supplies water to 5/8" drip tape (crop rows).	1	-	-	-	-	DD-DH700-50
	1/2" Drip tubing (700 series) - 100 foot roll 1/2" poly tubing for main lines. Supplies water to 5/8" drip tape (crop rows).	-	1	1	2	2	DD-DH700-100
	Direct-Loc Coupling Used to connect 1/2" solid drip poly tubing or for repairs in 1/2" tubing that goof plugs can't handle. Convenient removable fitting.	1	2	3	4	6	DL-C600
	Direct-Loc Threaded End Cap Caps off the ends of 1/2" drip tubing. Threaded Cap allows for easy flushing and draining in winter. Convenient removable fitting.	1	1	1	2	2	DL-EC600
	Goof Plug Plug holes in 1/2" drip poly tubing. Dual plug ends to accommodate large or small holes.	10	20	30	50	80	DD-GP
	Wire Stakes - 8" Keeps drip tubing in place.	10	20	30	50	100	DD-S8

	Deluxe Hole Punch Designed to fit very comfortably in your hand. Creates clean, precise holes in 1/2" drip poly tubing.	1	1	1	1	1	DD-HP250
	Drip Tape 5/8" Loc x 1/4" Barb Connects 5/8" drip tape to 1/2" solid poly tubing. 1/4" barb is inserted into poly tubing. Convenient removable fitting.	5	10	15	25	35	DT-TO250
	5/8" Drip Tape (15 Mil) 8" emitter spacing Hi-Flow - 100 foot roll For watering row crops & vegetable gardens. 5/8" (16 mm) Drip Tape with outlets at 8" spacing. Hi-Flow rate delivers .67 GPM/100'. Laser-cut outlet ensures a high resistance to root intrusion.	1	2	3	5	-	DT-1508HF-100
	5/8" Drip Tape (15 Mil) 8" emitter spacing Hi-Flow - 750 foot roll For watering row crops & vegetable gardens. 5/8" (16 mm) Drip Tape with outlets at 8" spacing. Hi-Flow rate delivers .67 GPM/100'. Laser-cut outlet ensures a high resistance to root intrusion.	-	-	-	-	1	DT-1508HF-750
	Drip Tape 5/8" Sleeve End Caps off 5/8" Drip Tape (16 mm). Insert Drip Tape into the narrow end. Fold over two or three times. Pull back to lock it in place.	5	10	15	25	35	DT-TSE
	Tape Loc x Male End with Cap Caps off 5/8" Drip Tape (16 mm). Tighten collar over drip tape to seal. Convenient removable fitting.	1	2	3	4	6	DT-EC58
	Drip Tape 5/8" Loc Coupler Used to connect or repair 5/8" drip tape. Convenient removable fitting.	1	2	4	6	10	DT-C58

Maintenance Tips

WINTERIZING

If you live where it freezes, it is a good idea to drain the water from your drip lines and the components connected to the water source. Here's how:

1. Turn off the hose bibb.
2. If you have a hose-end timer installed, let the system run through a watering cycle. This will open the timer and let any remaining water drain out of the timer and other components & into the drip tubing.
3. If you do not have a timer installed, unscrew the drip system from the hose bibb for a few minutes to let air into the line. Reattach the line after a minute or two.
4. **Note:** *We do not recommend blowing compressed air through a drip system.*

FLUSH THE LINE ANUALLY

Since drip systems operate at low pressures, sediment can settle in the line over time.

1. Flush the line annually by unscrewing the end cap at the end of the line.
2. Check filter screen for debris and clean if necessary.
3. Turn on the hose bibb until the water runs clear from the end of the line.
4. Replace the cap.
5. Turn on the hose bibb and check the entire system for leaks.

REPAIR BREAKS & LEAKS

1. Small holes in the line can be plugged with a goof plug.
2. For larger breaks or holes in the 1/4" drip tubing, make a clean cut around the damaged area and reconnect the lines with a **1/4" barbed connector** (DD-C250) *purchased separately*.
3. For larger breaks or holes in the 1/2" drip tubing, make a clean cut around the damaged area and reconnect the lines with a **1/2" Direct-Loc coupling** (DL-C600).

DRIP IRRIGATION TUTORIALS

Visit our website for more tips, tricks, and expert advice: <http://www.irrigationdirect.com/expert-advice>

Irrigation Direct Limited Warranty

Irrigation Direct warrants to the original purchaser that the Irrigation Direct Product(s) is/are free from defects in material and workmanship under normal use and service.

The warranty coverage lasts for a period of three (3) years starting from the date of purchase. For details visit the warranty page on our website: <http://www.irrigationdirect.com/warranty>

The Irrigation Direct Guarantee

Our 100% satisfaction guarantee ensures that every item you purchase at Irrigation Direct meets your high standards—or you can return it for a replacement or refund. We want you to buy with confidence anytime you purchase products on the Irrigation Direct website. If you're ever dissatisfied with an item, contact us to return or exchange it.

Contact Information

Product Questions:

If you have a question about our products, first make sure that you have clicked "click for details" on our website on the product that you have a question about, chances are you will find all kinds of great details and even videos. Or email us at: productquestion@irrigationdirect.com.

Installation & Maintenance Information:

If you have a question that you couldn't find the answer for in this instruction sheet, please check the following sections of our website:

Expert Advice: www.irrigationdirect.com/expert-advice

Tutorials: www.irrigationdirect.com/expert-advice/tutorials

Videos: www.irrigationdirect.com/expert-advice/videos

Technical Support: techsupport@irrigationdirect.com

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