

Garden JumpStart Hydroponic Kit

Follow this simple step-by-step guide to create your own hydroponic chamber that you can use to clone your favorite plants. Double the size of your garden within weeks! By taking cuttings of young green stems, you can root them using this simple cloning bucket , creating mature transplants much faster than growing plants from seed.

Decide if you want a small (2gal), medium (5gal) or large chamber (storage tote size). The supply list has each item and where it can be purchased.

Garden JumpStart Hydroponic Kit: Supply List

5gal bucket set up

item	cost	description	units	\$/unit	vendor
pump	\$ 23.80	Eco-396-396GPH	1	\$ 23.80	http://www.amazon.com/EcoPlus-728310-Submersible-Pump-396GPH/dp/B0018X2XT4/ref=sr_1_1?ie=UTF8&qid=1459274710&sr=8-1&keywords=eco+396+pump
5 gal bucket & lid	\$ 5.00		1	\$ 5.00	Lowes
sprayer (1)	\$ 18.95	pack of 100	100	\$ 0.19	http://www.amazon.com/Degree-Replacement-Micro-Sprayer-Mister/dp/B00BJ91DN4?ie=UTF8&psc=1&redirect=true&ref=oh_aui_search_detailpage
collars (8)	\$ 29.99	pack of 98	98	\$ 0.31	http://www.amazon.com/100-PACK-Cloning-Collars-Machines/dp/B00DFKEYBS?ie=UTF8&psc=1&redirect=true&ref=oh_aui_search_detailpage
2" drill bit					
1/2" tubing (5-6" piece)	\$ 18.00	25' roll	1	\$ 18.00	https://www.amazon.com/Hydrofarm-HGTB50GF-2-Inch-Black-Tubing/dp/B0079QUTSQ/ref=sr_1_2?ie=UTF8&qid=1525879860&sr=8-2&keywords=1%2F2+inch+black+tubing

can also use these same items to make a tote clone bucket, if you add 2 spray heads

2 gallon bucket set up

item	cost	description	units	\$/unit	vendor
pump	\$ 15.00	Eco185-158GPH	1	\$ 15.00	http://www.amazon.com/EcoPlus-185-Submersible-Pump-158/dp/B0018WVNXC?ie=UTF8&keywords=eco%20185%20pump&qid=1459274662&ref=sr_1_1&sr=8-1
2 gallon bucket & lid	\$ 7.00		1	\$ 7.00	Lowes
sprayer (1)	\$ 18.95	pack of 100	100	\$ 0.19	http://www.amazon.com/Degree-Replacement-Micro-Sprayer-Mister/dp/B00BJ91DN4?ie=UTF8&psc=1&redirect=true&ref=oh_aui_search_detailpage
collars (6)	\$ 29.99	pack of 98	98	\$ 0.31	http://www.amazon.com/100-PACK-Cloning-Collars-Machines/dp/B00DFKEYBS?ie=UTF8&psc=1&redirect=true&ref=oh_aui_search_detailpage
2" drill bit					
1/2" tubing (5-6" piece)	\$ 18.00	25' roll	1	\$ 18.00	https://www.amazon.com/Hydrofarm-HGTB50GF-2-Inch-Black-Tubing/dp/B0079QUTSQ/ref=sr_1_2?ie=UTF8&qid=1525879860&sr=8-2&keywords=1%2F2+inch+black+tubing

Garden JumpStart Hydroponic Kit: Clone Chamber Assembly

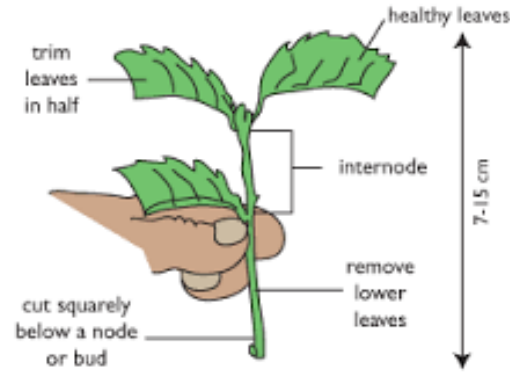


Using the 2" drill bit, drill holes in the lid of the bucket, spaced evenly. The number of holes is determined by the size of the chamber, small=6

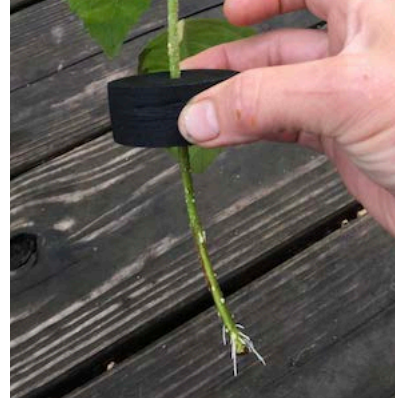


Cut a notch in the side of the bucket to place the cord from the pump. This will allow the lid to close so no leaking happens. Fill the bucket with water, enough to fully cover the pump.

Garden JumpStart Hydroponic Kit: Clone Chamber Assembly



Make your stem cuttings using only green tissue, then place the foam collar around the stem. Leave at least 1 node fully below the collar.



Place the collared cuttings into the hole. Plug in the pump.

After a few days, you'll have roots!

You will need to make sure the temperature does not get too hot.

This is more of a concern with the small size. You can add a frozen ice pack.

This will keep temps from spiking too high – optimal rooting happens between 65-75F

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Small, Medium & Large Hydroponic Cloning Buckets

