



L.T. Rich Products, Inc.

30 / 25 / 18 Gallon Auxiliary Tank Installation

Date: October 19th, 2012
Bulletin #: 034
Subject: Auxiliary Tank installation Instruction Sheet
Model(s): Z-Max and Intermediate Z-Spray units

L T Rich Products has designed an instruction sheet to install the 30, 25 or 18 Gallon Auxiliary tank attachment. If at any time you have questions about this bulletin and the installation instructions, feel free to call us at **765-482-2040** or **877-482-2040**.

Tools needed to perform this task:

7/8" wrench	(2ea) (Deflector Shield Cable removal/install)
5/8" wrench	(Hopper Cable removal/install)
11/16" wrench	(Hopper Cable removal/install and Hopper Hose Fitting)
3/4" wrench	(Hopper Hose Fitting)
1/2" wrench and socket	(Hopper and Tank Frame Bolts/Nuts)
Wire Snips	(Cut Zip Tie off of hose attached to Hopper Frame)

With the 5/8" and 11/16" wrench, loosen the Hopper Cable and slide out of the Hopper Cable Bracket.



(loosen nuts on cable)



(pull top nut up for clearance)



(pull cable down and out to remove)

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Put Hopper Cable aside and grab 7/8" wrench to remove Diffuser Cable. This is a "Lock Style" Cable, so turn knob the opposite direct (both in removal and installation) of the nut you are turning with the wrench. Spin the nut completely off of the threads and allow it to slide down the cable. Lightly push the Hopper Cable Bracket down while pulling the cable up to get the narrowest point of the cable to slide out of the Hopper Cable Bracket hole.



(hold knob and loosen nut)



(loosen nut on Diffuser Cable)



(slide cable out of the Hopper Bracket)

Using the same wrench, loosen the Deflector Shield Cable (identical cable as the Diffuser Cable) until you get the nut complete removed from the threads. This cable will be next to impossible to come off, so hold off from removing the cable until the Hopper is freed.

Locate the 6 bolts (3 on each side) that currently secure the Hopper Frame to the Front Frame of the unit. Using the 1/2" wrench and socket, loosen and remove Hopper Frame hardware. Once the Hopper is no longer secured to the Z-Spray unit, maneuver to the Hopper Bracket giving slack to the Deflector Shield Cable for removal (if a Zip Tie is securing the hose to the Hopper Frame, cut and remove).



(Hopper Frame Bolts)



(cut Zip Tie if present)



(lift Hopper to give slack to cable)

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After the Deflector Shield Cable is removed from Bracket, rest Hopper Frame back on the Front Frame and remove rear Hopper hoses. Using the 3/4" and 11/16" wrench, loosen and remove Hopper hoses from the rear Hopper fittings (have rag under fittings to catch any hydraulic fluid runoff. Grab inner hose end to secure while loosening hoses). Install provided U shape Hydraulic fittings to the end of the Hydraulic hoses to loop the hydraulic flow on the unit.



(wrench to loosen rear Hopper fittings) (grab inner hoses to help secure removal) (use rag to catch any runoff fluid)

Once you have looped the Hydraulic lines, secure (Zip Tie) to Hose Reel Hose or Foam Marker Hoses (shown in picture below). This will help keep the hose from catching onto any moving parts such as the engine cover. You are now in the position to remove the Hopper from the unit (the Hopper Cable and the Diffuser Cable will have to be pull out at the same time as the tub is being removed from the frame).



(Connect Hydraulic lines on unit) (locate a good secure area to mount) (secure hose with the Foam Marker hose)

You are now ready to install the Liquid Tank (either the 25 Gallon or the 18 Gallon Auxiliary tank) to your unit. Regardless if you are installing the 25 Gallon Auxiliary tank or the 18 Gallon Auxiliary tank, the Tank Lid will be on the right side (from the operating position). Secure the tank frame with the hardware that

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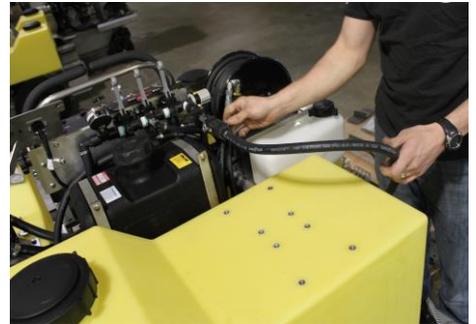
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was removed when taking off the Hopper. After securing frame to the unit, grab the return line coupler (hose that comes from the side of the tank) and hook it up to the coupler plumbed to the Throttle Valve. The suction hose coupler will be connected to the coupler on the right side of the unit for a Z-max and underneath the 18 gallon tank on Intermediates and Juniors.



(mounting 25 Gallon Auxiliary Tank) (Tank Lid on the right side of the unit) (return coupler to Throttle Valve side)

To hook up the return hose, bring the coupler to the right side of the unit where there should be a coupler (if not, one will need to be installed) hookup. Attach the 2 couplers and fill tank with water to test. Once water is in the system shut off all valves except both the suction and return lines to the 30, 25 or 18 Gallon Auxiliary tank and turn the pump on. Seeing that this system is new to the pump there will be air in the lines, with the pump on run the Throttle Valve in and out 5 or more times allowing air to be purged out of the system. Once this process is completed, spray water out of the Hose Reel and the Boom to make sure that the plumbing is correct.

*** If you have questions about this update kit bulletin, please call us at L T Rich Products, Inc ***

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