



4 Series Conventional Sprayer: Less Load Command

Bulletin: SPRAY21.4C-LL

Models: R4023, R4030, R4038, R4044, R4045, & R4060

1. For high flow solution pump machines: verify that the flowmeter valve is in the OPEN position.
2. Fill rinse tank with fresh water.
3. **Machines equipped with Solution Command System (Automated Solution Control):**
 - a. Perform a system rinse. (See Operate Rinse System in the Solution Command System Operation section of the machine Operator's Manual.) The following systems are rinsed:
 - Eductor
 - Agitation
 - Bypass
 - Solution Tank
 - Boom

NOTE: When rinsing eductor, operator must manually open eductor rinse and sump valves when display shows that portion of the rinse cycle.
 - b. After rinse procedure is complete, unfold boom, and spray rinse solution in a safe location where contamination cannot occur.
4. **Machines equipped with Manual Load System:** With the solution pump running, manually actuate the following functions:
 - Eductor—During the “eductor” portion of the system rinse, use the manual rinse valve at the eductor to rinse the eductor bowl with winterizer fluid. Then use the eductor manual valve to suck the hopper empty of winterizer fluid and put it into the solution tank.
 - Agitation—activate for minimum of 10 seconds.
 - Bypass—activate for minimum of 10 seconds.
 - Solution Tank Rinse—activate for minimum of 10 seconds.
 - After rinse procedure is complete, unfold boom, and spray rinse solution in a safe location where contamination cannot occur.
5. Use boom air purge if equipped to remove excess water from the boom.
6. Remove, clean and install fill strainer, boom supply line strainer(s) and flowmeter(s).
7. **Front Fill (If Equipped):** Open front fill isolation valve and use front fill purge valve to push any water in the front fill hose into the solution tank.
8. Drain the rinse tank using the rinse tank fill valve.
9. Operate the eductor function and transfer any eductor hopper water to the solution tank.
10. Empty the solution tank water by opening the solution tank fill valve to let the water escape.
11. Empty the rinse tank water by using the boom rinse function and spraying the rinse tank water out until you lose spray pressure at the boom
12. **Add John Deere Winterizer Solution (Part # N305634)**
 - a. Mix appropriate amount of winterizer solution with 40 GAL of water to protect sprayer against cold temperatures for your area.
 - b. Add winterizer solution to rinse tank and then run a system rinse again to get solution through all the plumbing using steps 3 or 4 depending on your machine configuration, skip the final step of spraying the solution and continue to step 13.

13. Machines equipped with standard boom plumbing:

- a. Spray winterizer out the entire length of the boom for at least 15 seconds.
- b. Close all the nozzle turrets other than those on each end of every spray pipe.
- c. Spray the winterizer fluid in the solution tank out of the open turrets using the Nozzle Flow Check procedure until you see winterizer fluid coming out of every open spray pipe turret location. (See Nozzle Flow Check Test in the SprayStar™ System section of the machine Operator's Manual.)
- d. If Fence Row Nozzles are equipped ensure winterizer is sprayed through them.
- e. Allow the winterizer fluid to spray until the solution tank is almost empty.
- f. Use boom air purge if equipped to remove excess winterizer from the boom.

14. Front Fill (If Equipped):

- a. Remove the front fill cap.
- b. Open the front fill isolation valve using the electrical switch, then open the manual front fill valve in order to let the winterizer fluid drain into the front fill hose.
- c. Once winterizer fluid is seen coming out of the end of the front fill, close the manual valve.
- d. Use the air purge valve to push the winterizer fluid back into the solution tank.