



# **Installation & Operation Instructions Manual**

## **Delimer for the Inferno & Supra-Q2020**

## Inferno & Supra-Q2020 Booster Tank Deliming Manifold Kit

Follow these instructions when deliming an Inferno booster tank.

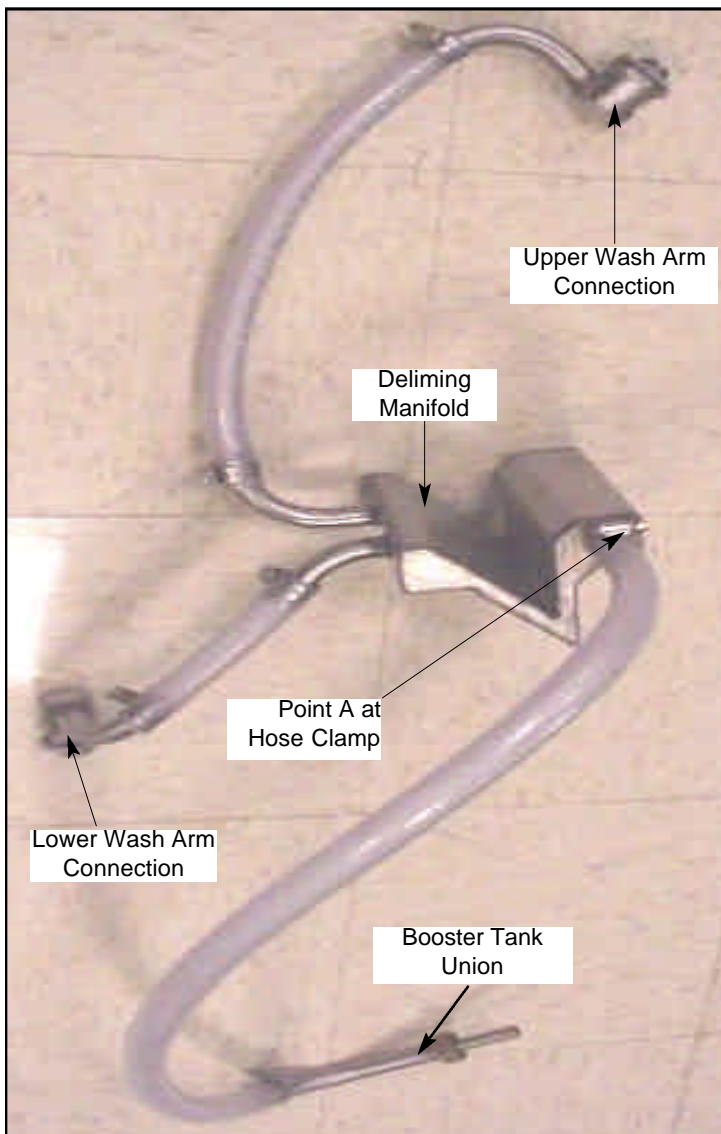
*[Refer to last page to delime a Q2020 booster tank.]*

### GENERAL PROCEDURE:

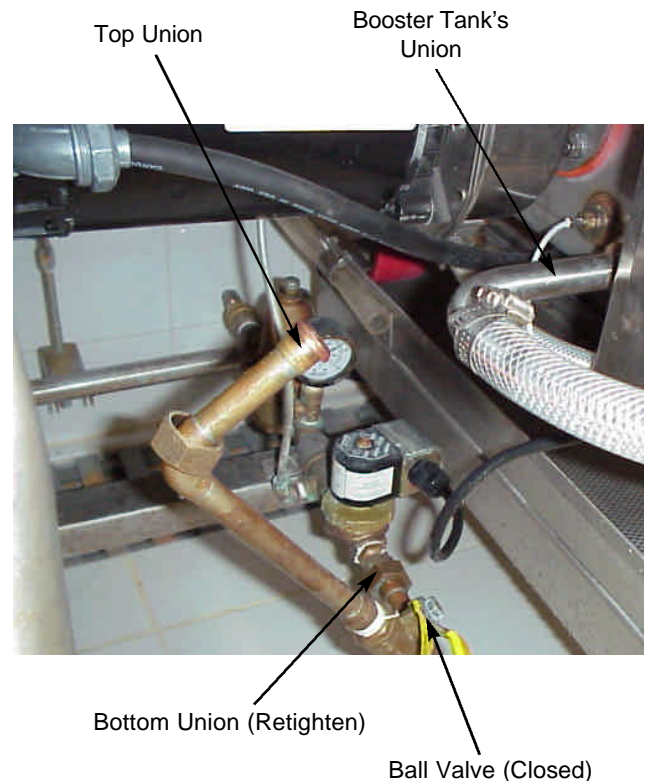
After connecting the manifold kit, the water in the booster tank will be heated using the normal "water heating" cycle. Then the booster heater will be disabled to prevent damage when the water in the booster tank is drained. The DELIME cycle is then used to constantly pump delime solution through the booster tank. At the completion of the process, the tank is refilled and the heater is again enabled.

**Warning:** To avoid possible injury or burns, perform the following booster tank delime sequence when the machine is cold, or has been off for several hours to allow water in the booster tank to cool.

### Basic Delimer Assembly

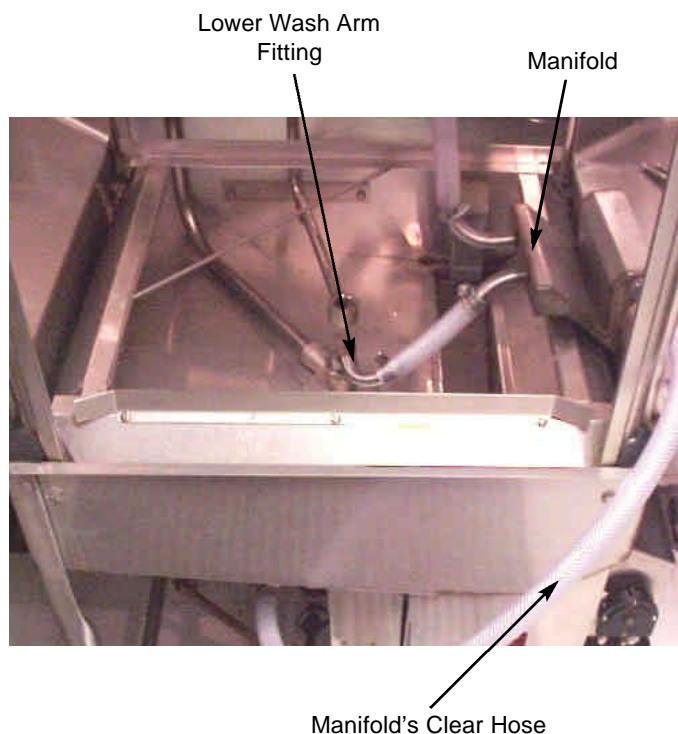


1. On Inferno, loosen Bottom Union, disconnect Top Union and swing away copper plumbing. Connect delime manifold to Booster Tank's Union. Make sure that ball valve on incoming plumbing line is CLOSED and bottom union has been RETIGHTENED (to prevent leaks).



2. Remove wash arms and connect Manifold's wash arm fittings. Remove rinse arms.

**WARNING: To avoid potential damage to the booster heating element, manually refill booster tank at Point A if excessive water was released from the booster tank [if water level is below the top of the heating element (the water level can be seen through the clear hose between the delime manifold and the booster tank.)] Disconnect hose from manifold at Point A, pour water into hose until booster tank is full. Reconnect hose.**



3. Turn machine on. Inferno's display indicates HEATING WATER.

4. Immediately open machine doors.
5. Wait until booster heater element turns off.
6. Turn machine off. Close machine doors.

7. In the programming mode (SYSTEM section), disable the heater.

8. Press DELIME button for two seconds to start the delime sequence.

9. Display indicates FILLING, but nothing will happen.

10. Display indicates OPEN DOOR, ADD LIME-A-WAY. Add 1-2 gallons of Lime-A-Way to wash tank sump.

11. Close door. Lime-A-Way solution will be pumped from the wash tank sump, through the booster tank and out the rinse arm fittings. You may need to add some water to the wash tank sump to stop the pump from cavitating.

12. Periodically during the delime procedure, interrupt the process by opening the machine doors. Keep the doors open for several minutes to allow the stationary delime solution to act on the booster tank.

13. After several minutes, press DELIME button. Machine will drain. Then the display will indicate FILLING, but again, nothing will happen.

14. As soon as the display indicates FINAL RINSE, open the machine doors and add approximately 2 gallons of water to the wash tank sump.

15. Close door, machine will complete the final rinse and final drain steps, then turn off.

16. Disconnect hose at point "A" and drain the booster tank.

17. Disconnect delime kit. Reinstall wash and rinse arms and incoming plumbing.

18. In the programming mode (ENGINEERING section), OPEN FILL until the booster tank is refilled.

19. In the programming mode (SYSTEM section), enable the heater.

## Instructions for Q2020 Booster Tank Delime Kit

**Warning: To avoid possible injury or burns, perform the following booster tank delime sequence when the machine is cold, or has been off for several hours to allow water in the booster tank to cool.**

1. Disconnect union at booster tank.
2. Connect delime manifold kit's hose to booster tank union using adapter.
3. Remove wash arms.
4. Install fittings from delime kit into upper and lower wash hub fittings.
5. Refill booster tank with water. Disconnect hose from delime manifold at Point A, pour water into hose until booster tank is full. Reconnect hose to manifold at point A.
6. Open doors and add 1-2 gallons of Lime-a-Way to wash sump. Close doors.
7. Inside control box, change selector switch from "Automatic" to "Manual" (delime).
8. Turn on machine. Wash pump will turn on.
9. Add water to wash sump, as necessary, to prevent pump from cavitating.
10. Periodically during the delime procedure, interrupt the process by opening the machine doors. Keep the doors open for several minutes to allow the stationary delime solution to act on the booster tank.
11. After several minutes, turn off machine.
12. Drain solution from wash tank sump by lifting drain

stopper.

13. Disconnect delime kit from machine.
14. Allow booster tank to drain completely.

**CAUTION: Water in booster tank will be hot!**

15. Reconnect inlet plumbing to booster tank.
16. Reinstall wash arms.
17. Disconnect coil wire at heater contactor. This will prevent damage to the heater element by preventing the heater element from turning on before the booster tank has been refilled with water.
18. Turn on machine.
19. Run several cycles until the booster tank is full of water.
20. Reconnect coil wire at heater contactor.
21. Run several cycles to clean Lime-A-Way from booster tank.