



Installation and Operations Instructions

Advantus Auxiliary Foam Overboard Pickup System Rev-

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WATEROUS ARIZONA

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Warnings, Cautions, and Notes

Warning A warning alerts you to a procedure, practice or condition that may result in death or long term injury to personnel or destruction of equipment.

Caution A caution alerts you to a procedure or condition that may result in serious damage to equipment or its failure to operate as expected

Note: A note points out important information. Failure to read the note may not result in physical harm to personnel or equipment. It may waste time and money.

Revision History

Revision	Date Issued	Comments
---		Original Release

Disclaimer: These instructions are guidelines only and in no way meant to be definitive. During installation, standard safety precautions and equipment should be used where appropriate. Because the tools used and the skill/experience of the installer can vary widely, it is impossible to anticipate all conditions under which this installation is made, or to provide cautions for all possible hazards. Proper installation is the responsibility of the purchaser. All bolts, setscrews, and belts must be checked prior to start-up AND after the initial operation. Damages due to poor installation are the responsibility of the installer.

Waterous reserves the right to make modifications to the system without notice

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Plan Ahead

Because of the potential differences in fire apparatus plumbing and foam system configuration, it is not practical to depict exactly how each Waterous unit will be installed on a particular apparatus. Most of the information contained in the following pages, however, will apply to any situation. It is recommended that you read it and understand it thoroughly.

It is also recommended that you spend time planning and designing where and how you intend to install this equipment in the apparatus "before" beginning the actual installation. The following diagrams provide recommended guidelines for the location of the system components.

For installation:

The first thing that must be done is to determine the location (on the panel) of the following components. It is beneficial to locate the following in close proximity to the auxiliary foam pick up connection:

- the overboard pick-up hose
- Dual Tank Selector control
- the overboard pick-up connection
- the overboard pick-up priming button
- priming valve (panel mounting, 3/8", two way, quarter turn valve)

Knowledge of where the three way, quarter turn valve (called Bypass/inject, Flush/ Inject, or Cal/ Inject, depending on the foam system) valve is necessary. The Advantus systems have the "bypass/inject" valve assembled on the system's motor / pump assembly.

Because the Advantus foam pump is unable to compress air, it is unable to push air past the injection check valve. For that reason there is a requirement to have a Remote Vent system (brass tee, priming valve and tubing) installed into the injection line before the "bypass/inject" valve and after the foam pump. (see Figure 1, dashed box) to vent the air during the priming process.

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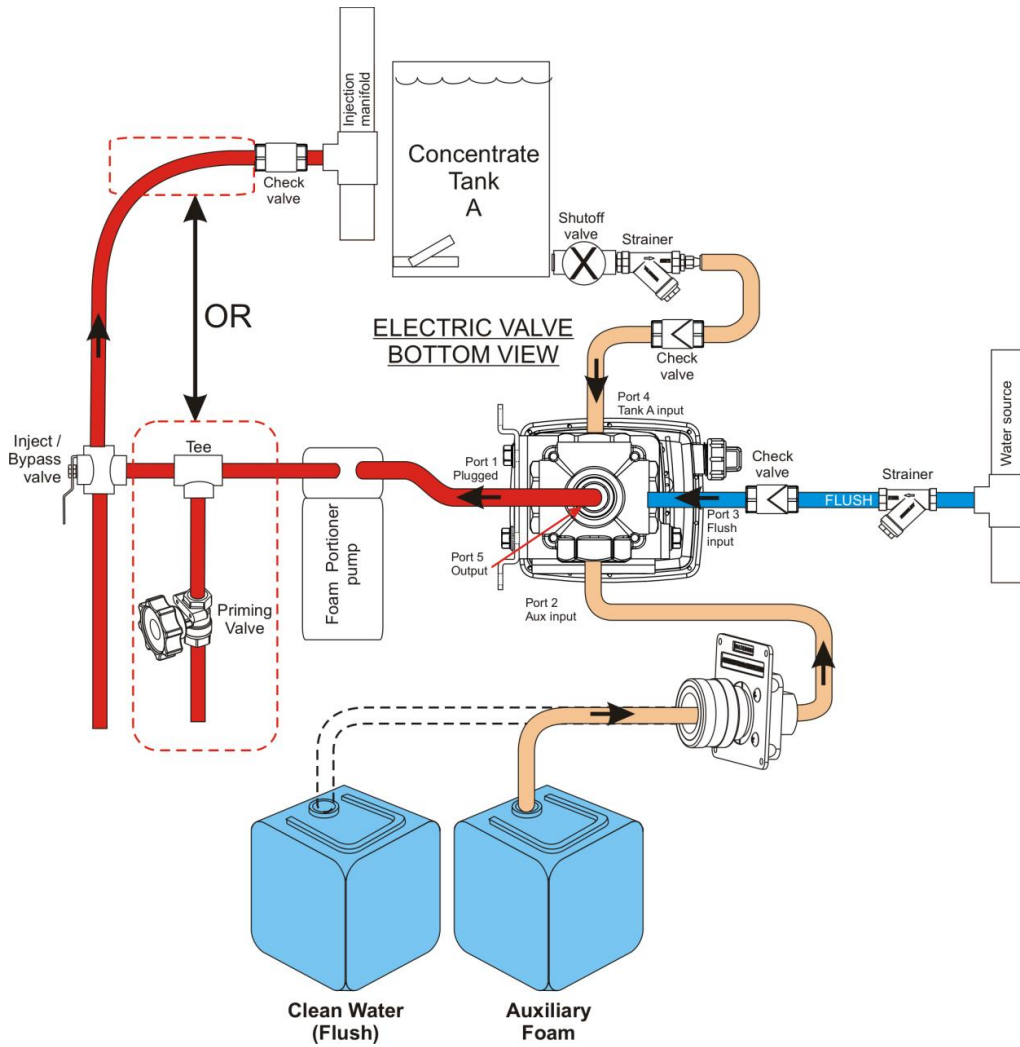


Figure 1 Basic plumbing schematic

Note: For overboard pick-up, DO NOT install the check valve, included with the A/B Selector valve, on the overboard pick-up plumbing

Wiring Connections

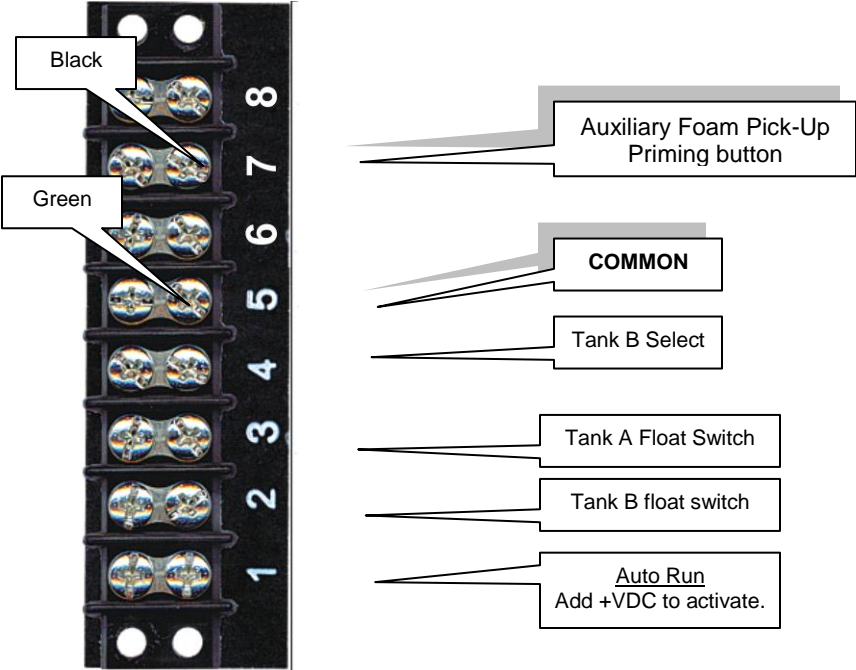


Figure 2 Foam Pick-up priming button hook up

The auxiliary foam pick-up priming button should be a momentary switch connecting ground (common 5) to the number 7 terminal of the Advantus wiring terminal block. (Figure 2)

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SECTION 1. OPERATION instructions:

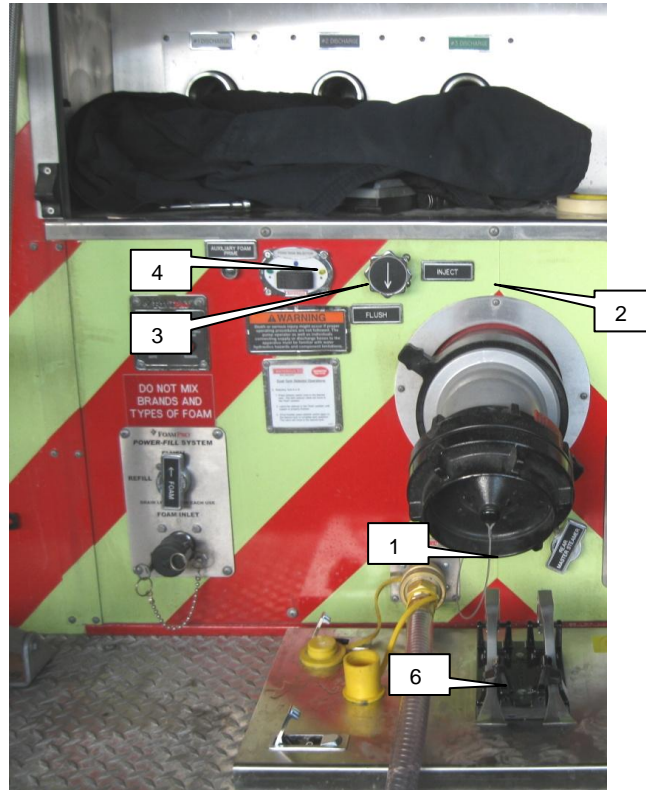


Figure 3 Typical panel layout

1. Check and make sure the Advantus has power, but the foam system is in the “OFF” position (ON light not illuminated on the OIT)
2. Connect overboard pick-up hose (6) to the panel’s quick connection (1) and put the pickup end in the auxiliary foam pail.
3. Locate the PRIMING valve and turn to the open position, “PRIMING”.
4. Move A/B valve control to “flush”. Water will flow through the PRIMING valve when the water pump is engaged **or** Press and hold Auxiliary Foam Pick-Up “priming button” (4). (Tank to Pump valve must be open)
5. Move A/B selector control (3) to B
6. Observe if foam is being picked up from the bucket, though the pickup hose (6)
 - a. once foam is observed coming out of flush hose, close the PRIMING valve.
 - b. release Auxiliary Foam Pick-Up priming button (4).
 - c. turn the Foam system on. (ON light is illuminated)

Flushing (after the operator is finished flowing foam)

1. The Priming valve should be “opened”
2. Switch the pick-up hose into a container of clean water
3. With the priming button (4) “pressed” and the A/B selector valve (3) in “B”, pump clean water from the pick-up hose through the foam pump.
4. Press the priming button (4) until clean water flows through the priming hose.
5. Close the Priming valve

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6. Open the Foam manifold drain.
7. Repeat step 4 until clean water flows out of the Foam manifold drain
8. After all has been flushed, the A/B selector valve (3) should be put back in "A" position and re-prime with "A" foam.
9. Double check that the Primer valve is "closed."

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Compressed Air Foam Systems