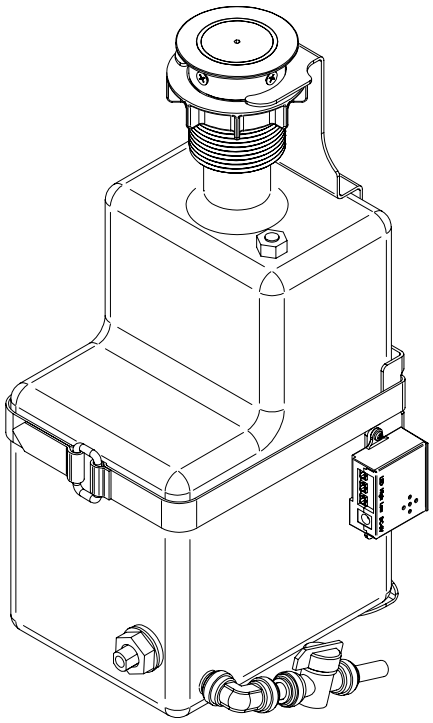
Installation and Maintenance Manual



Verge® Multi-Feed Soap Tank

Verge™ Soap Dispenser - Crestt Series (6-3100)

Verge™ Soap Dispenser - Metro Series (6-3300)

Verge™ Soap Dispenser - Linea Series (6-3500)

Verge™ Soap Dispenser - Zen Series (6-3700)

Table of Contents

Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance, and troubleshooting information.

Scan or click to view Installation Guide for Individual Automatic Top-Fill Soap Dispensers

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3539).

Product warranties and parts information may also be found under “Resources” on our website at bradleycorp.com/customerservice/warranty.

P20-225 Rev. E: ECO 24-08-017A

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Menomonee Falls, WI 53052 USA
800 BRADLEY (800 272 3539)
+1 262 251 6000
bradleycorp.com

A WATTS Brand

Safety Information

Caution

A DC plug-in adapter (supplied by Bradley) should be used in conjunction with the Bradley soap dispenser products. The DC plug-in adapter supplied by Bradley is 6V DC regulated. Direct connection to 120V/22V 50/60Hz could result in personal injury and will damage the sensor.

Important

Separate parts from packaging and make sure all parts are accounted for before discarding packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

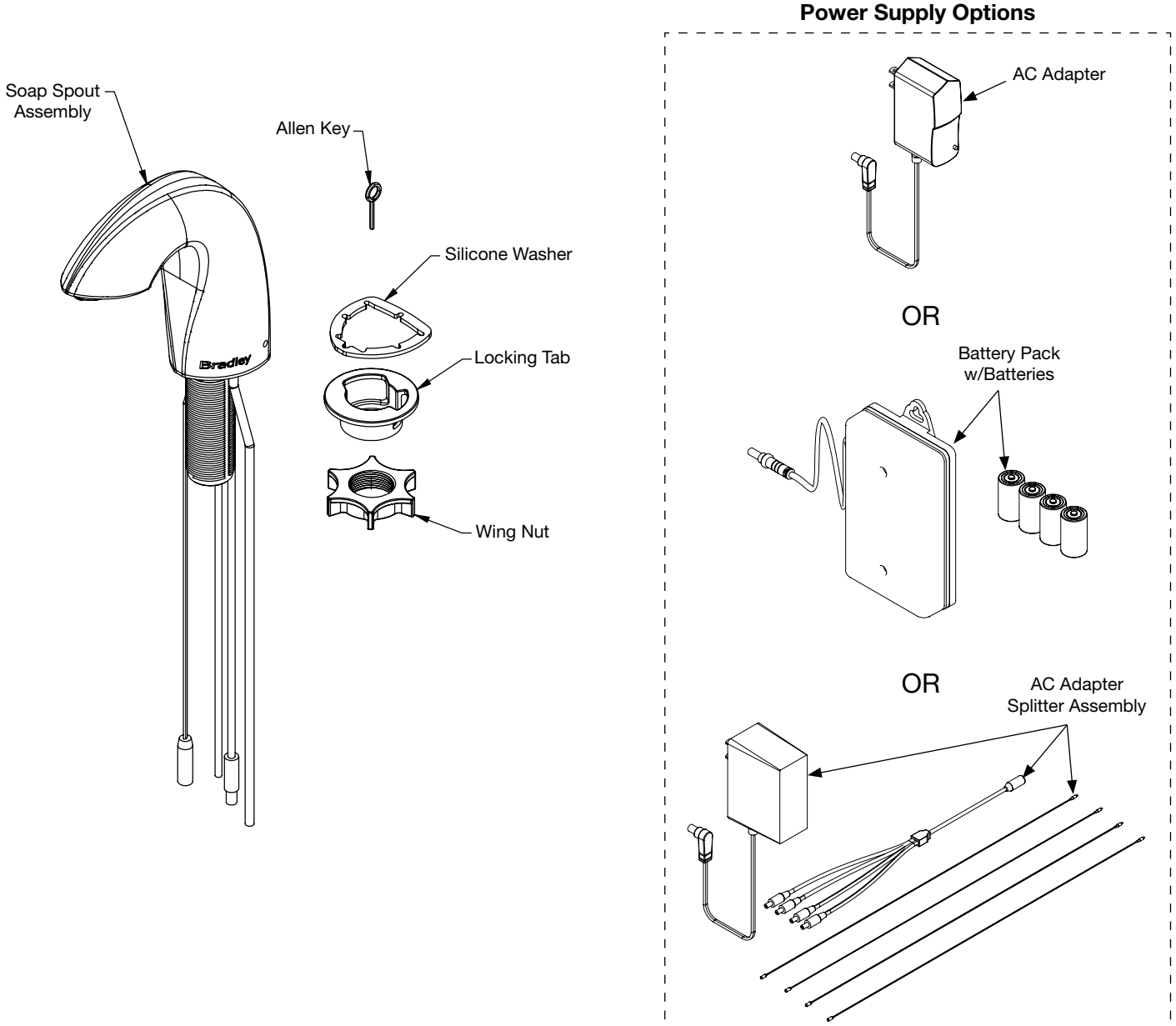
Troubleshooting and internal maintenance must be performed by qualified service personnel.

A minimum clearance of 5-1/8” between the sensor and surface or bowl is required.

Supplies Required

- (1) dedicated 120VAC, 20A GFCI outlet(s), if an A14-029 or A14-031 AC adapter is selected
- Drill
- 1/4” drill bit
- Tape measure
- Phillips screw driver
- Level
- Pencil
- Tubing cutter

Components


Power Supply Options
Soap Spout Assembly
Allen Key
Silicone Washer
Locking Tab
Wing Nut
Bradley
AC Adapter
OR
Battery Pack w/Batteries
OR
AC Adapter Splitter Assembly
Spacer
Multi-Feed Control Box
Multi-Feed Soap Tank Assembly
Soap Pump (Foam w/Tube)
OR
Soap Pump (Liquid w/Tube)

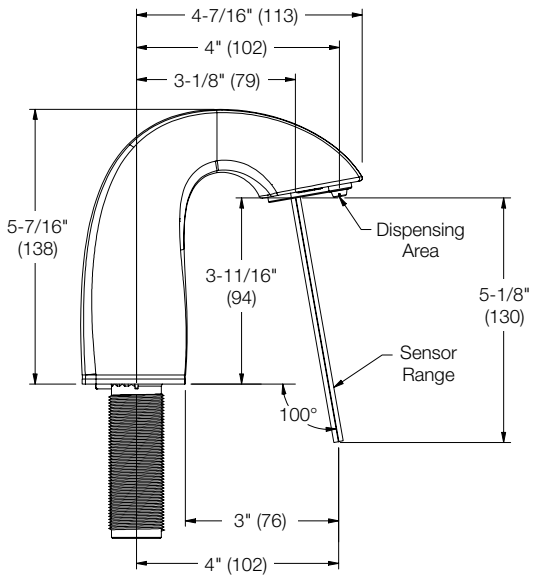
Dimensions (mm)

IMPORTANT: THE 6-3300, 6-3500 & 6-3700 SERIES SOAP DISPENSERS CANNOT BE MOUNTED DIRECTLY ON A DECK DUE TO THE REQUIRED 5-1/8" (130MM) MINIMIUM SENSOR CLEARANCE. THESE DISPENSERS MUST BE MOUNTED OVER A LAV BOWL.

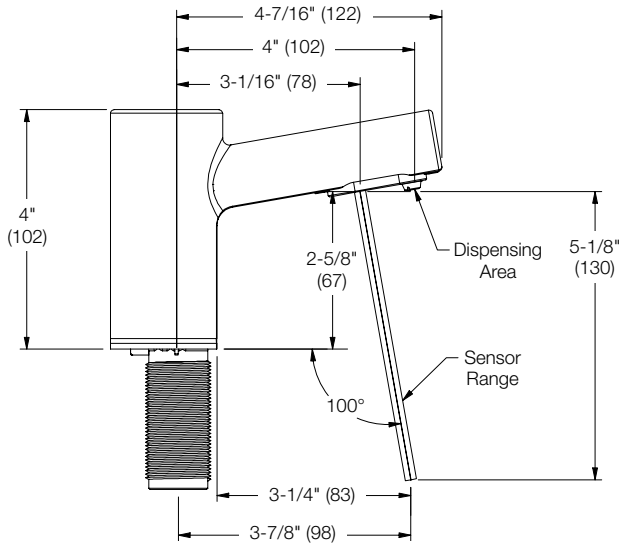
☑ *The 6-3100 Series soap dispenser can be mounted directly on a deck with the use of Crestt - Spout Spacer (P15-576). Contact Bradley Tech Service for additional information.*

☑ *Soap dispenser can accommodate a maximum deck thickness of 1-1/4".*

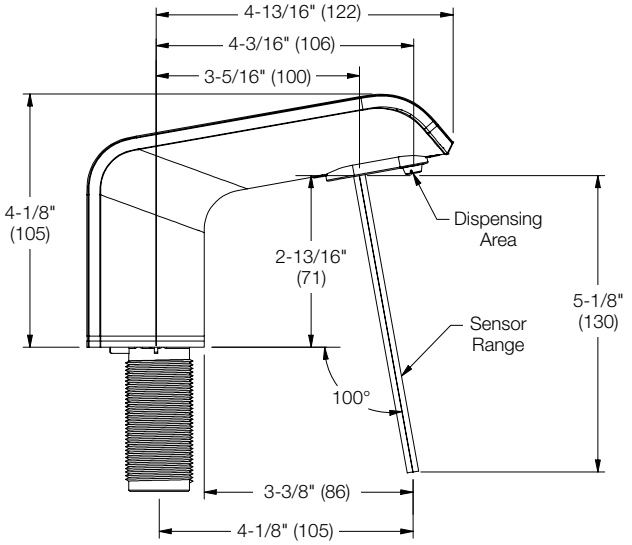
6-3100 Crestt Series



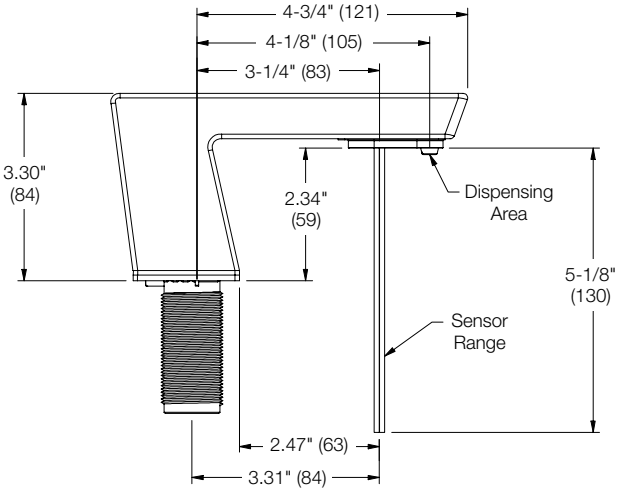
6-3300 Metro Series



6-3500 Linea Series



6-3700 Zen Series



1 Soap Spout Mounting

☑ *Repeat this procedure for each soap spout assembly (maximum of 6 per system).*

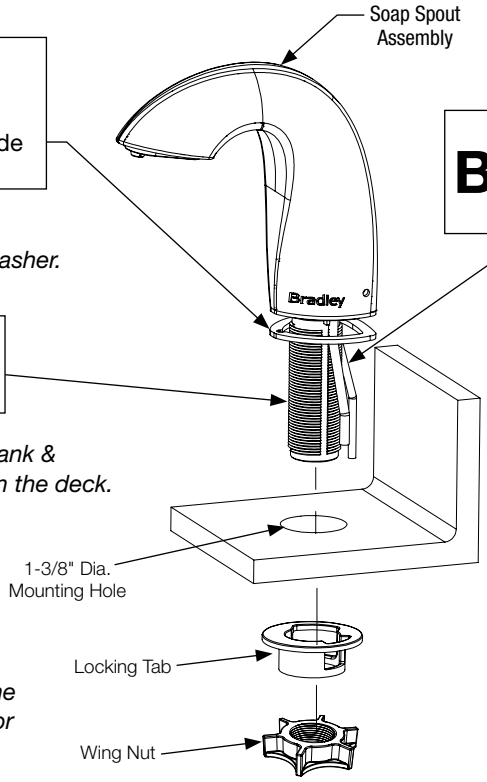
A Place the silicone washer under the soap spout assembly. Align with the emboss on the bottom side of the shank.

☑ *LED indication shows through the silicone washer.*

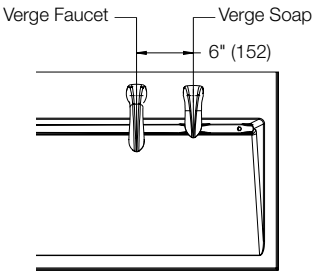
B Carefully insert the soap supply & vent tubes, and the LED & sensor wires through the mounting hole.

C Insert the soap spout shank through the mounting hole.

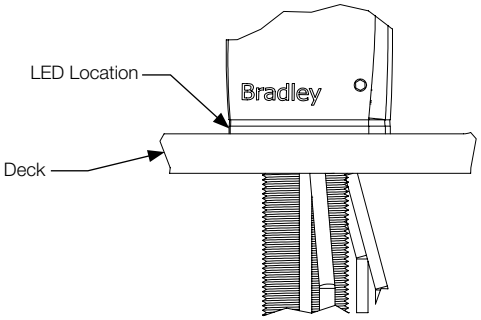
☑ *Verify the soap spout shank & silicone washer sit flat on the deck.*



☑ *Verify there is clearance of 2-1/8" diameter on the underside of the deck for the locking tab.*



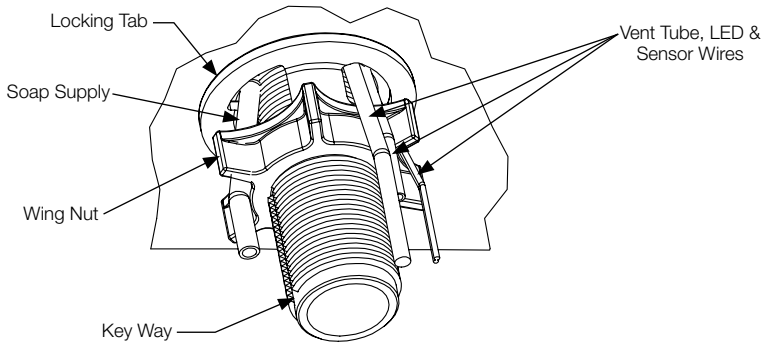
☑ When pairing Verge faucets with Verge soap, a minimum of 6" center-to-center spacing between drillings is required to ensure proper fitup of components. * Verge soap dispensers accommodate a maximum deck material thickness of 1-1/4".



D Position the locking tab key in line with the keyway on the shank.

E Feed the soap supply & vent tubes, and LED & sensor wires through the opening in the locking tab.

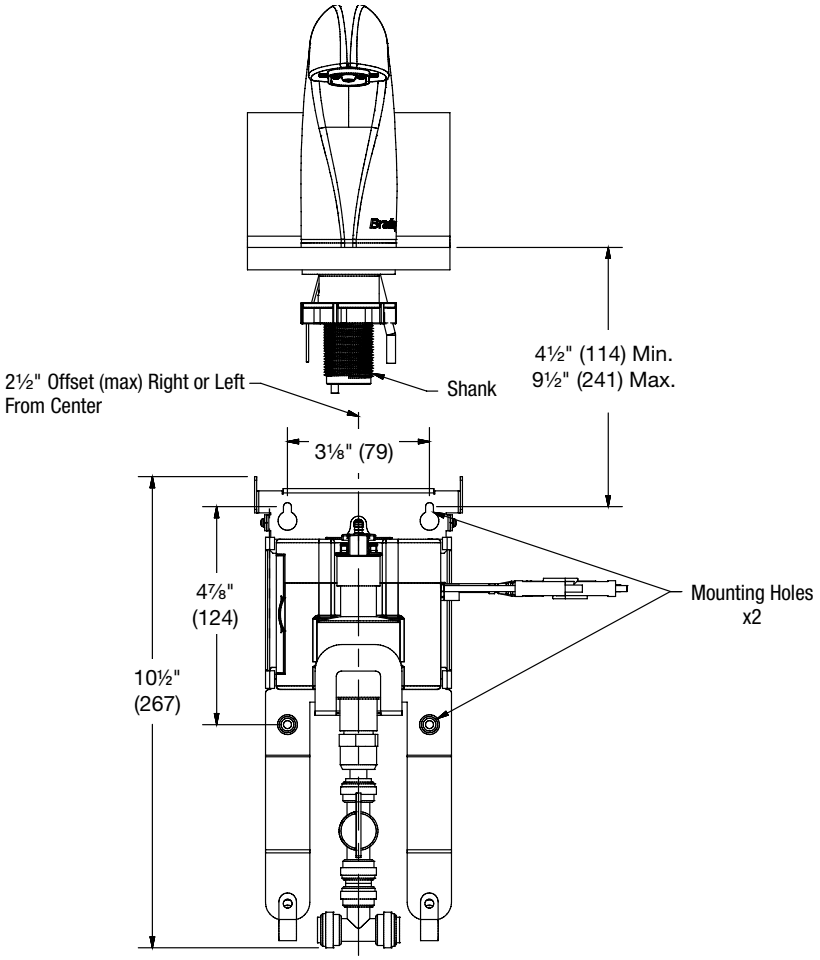
F Thread the wing nut onto the shank. Torque to 75 in/lb.



2 Control Box Mounting

A Locate the mounting position for the control box assembly.

✔ *Top mounting holes need to be mounted between 4½" & 9½" from the top of the deck, and 2½" right or left of center of shank.*

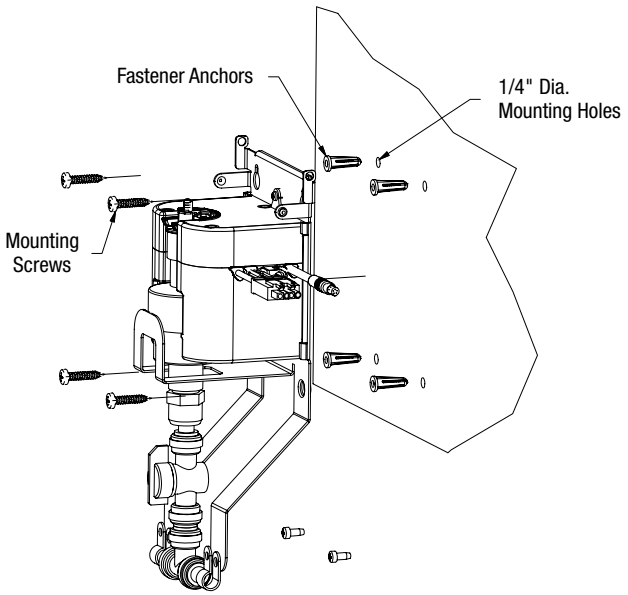


B Use a level to ensure the control box assembly is level, and then mark four mounting hole locations on the wall using a pencil.

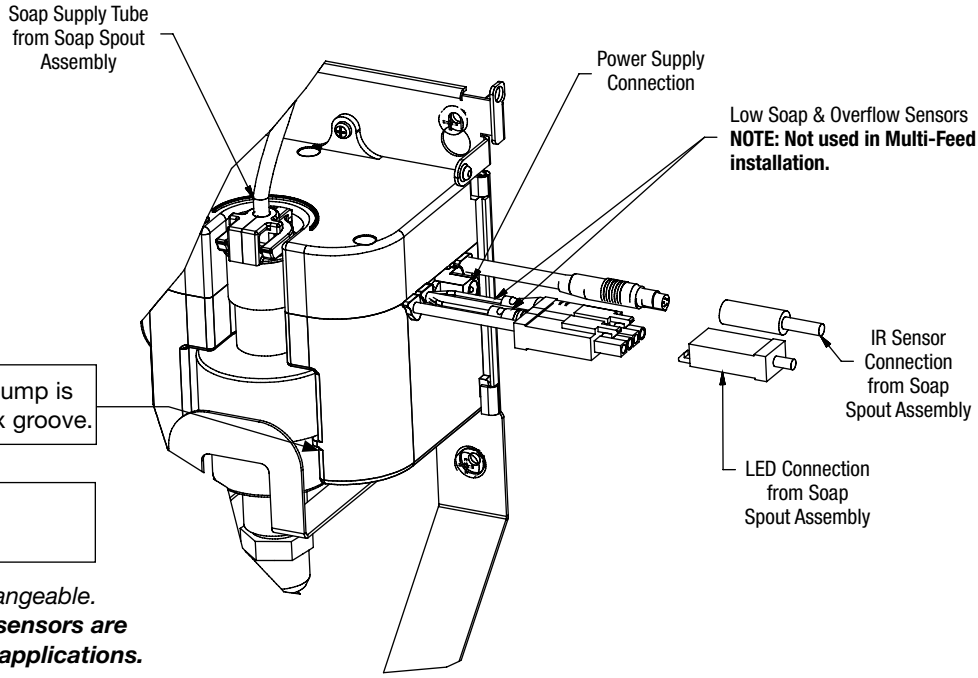
C Drill the four 1/4" diameter mounting holes into the wall or surface, using a drill and appropriate drill bit.

D Use the supplied mounting screws (or suitable mounting hardware) to attach the control box assembly in place.

✔ *Appropriate fastener anchors and mounting hardware must be used when mounting the control box assembly in the desired surface.*



3 Control Box & Soap Supply Connections

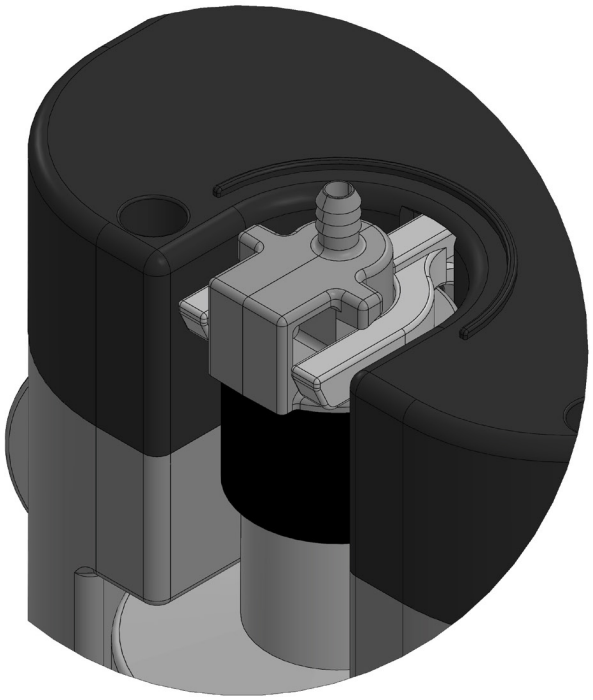


B Verify the shoulder of the soap pump is positioned above the control box groove.

C Make the IR sensor and LED, connections as shown.

Connections are NOT interchangeable. ***The low soap and overflow sensors are NOT used in the multi-feed applications.***

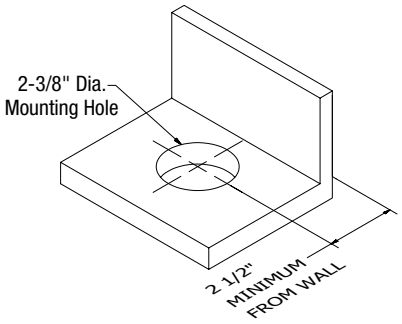
D Press the soap supply tube over the soap pump connection as shown.



A Position the control box lever under the wings of the soap pump.

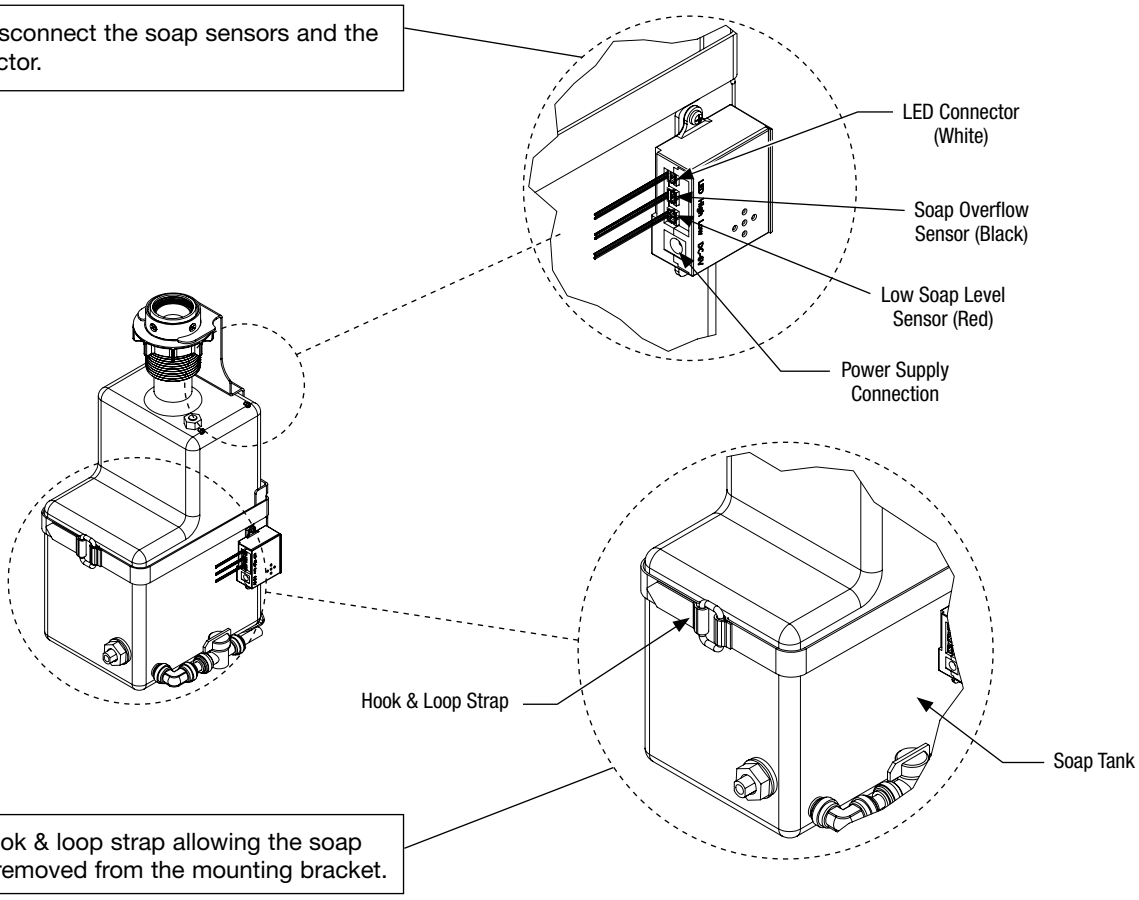
4 Multi-Feed Soap Tank Assembly Mounting

Before mounting the soap tank assembly, drill a 2-3/8" diameter hole through the deck that is positioned 2-1/2" from the adjacent back wall. This will ensure proper clearance of the soap tank.



Remove the Fill Port Hub Assembly

A Carefully disconnect the soap sensors and the LED connector.

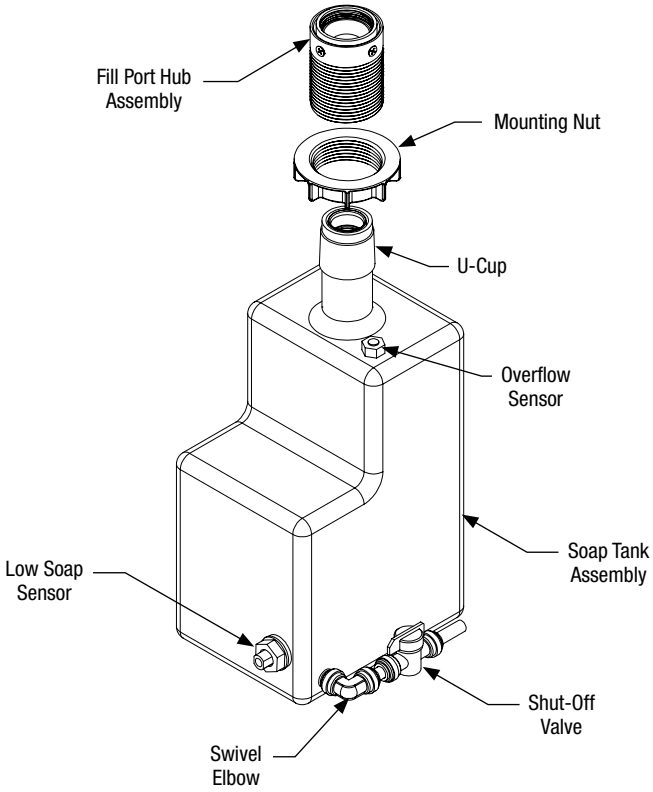


B Remove hook & loop strap allowing the soap tank to be removed from the mounting bracket.

C Carefully remove the fill port hub assembly from the soap tank assembly.

LED and sensor wires are not shown in this view for clarity purposes.

D Remove the mounting nut from the fill port hub assembly.

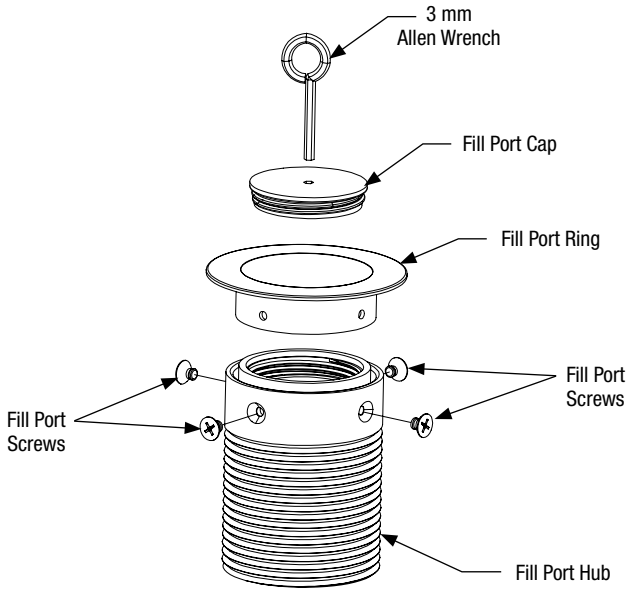


Install Multi-Feed Components

A Insert the fill port ring into the fill port hub and align the mounting holes. Start the four fill port screws by hand before tightening screws for proper alignment, and then secure in place.

B Insert the fill port cap into the fill port ring. Use the 3 mm Allen wrench (provided with spout assembly) to secure fill port cap in place.

C Using plumbers putty when installing the fill port ring is recommended.



Install Fill Port Hub Assembly on Lav Deck

A Install the fill port assembly through the 2-3/8" diameter hole in the lav deck.

B Position spacer and mounting bracket over fill port assembly and slide upward until spacer is in contact with under side of counter.

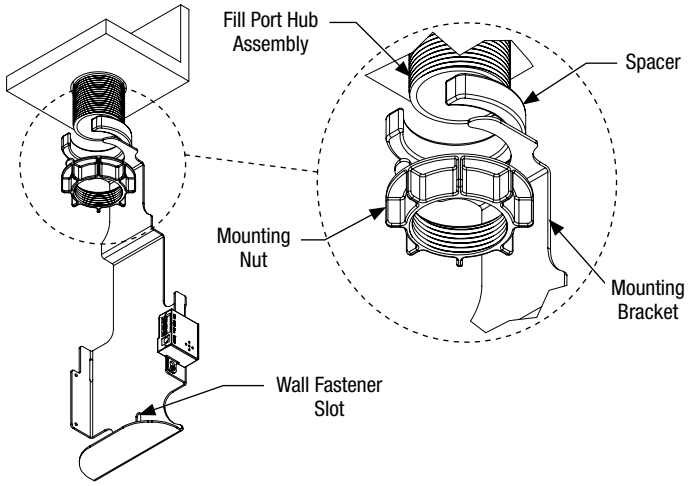
The mounting bracket can be fastened to the wall when centerline of fill port assembly is 2-1/2" from wall using wall fastener slot in mounting bracket (hardware by others).

C Thread the mounting nut onto the fill port hub assembly. Hand-tighten or torque to 24 in-lb.

The distance between the soap dispenser and the fill port hub assembly can only be a maximum of 42" center to center.

Lav deck can only be a maximum of 1-1/2" thick.

Discard spacer when decks are thicker than 1".



Install Soap Tank onto Fill Port Hub Assembly

A Position soap tank in center of fill port hub assembly and slide tank upward until tank is flush with return of mounting bracket.

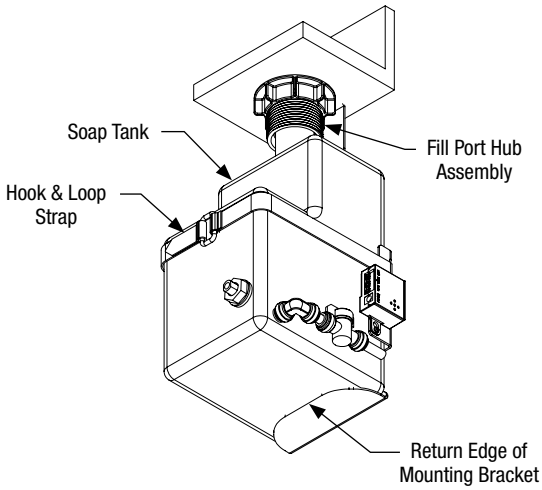
⚠ CAUTION Keep the LED wire positioned to the side of the fill port hub assembly when inserting the soap tank to prevent the LED wire from getting pinched.

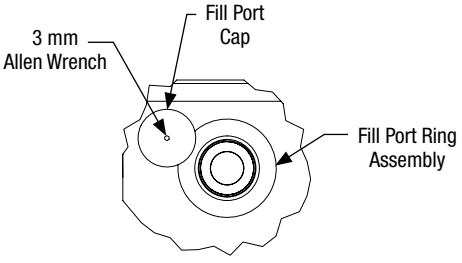
B Place hook and loop strap around soap tank as shown, securing soap tank to mounting bracket.

Scan code to view a video of how to properly set the U-cup on the tank assembly.

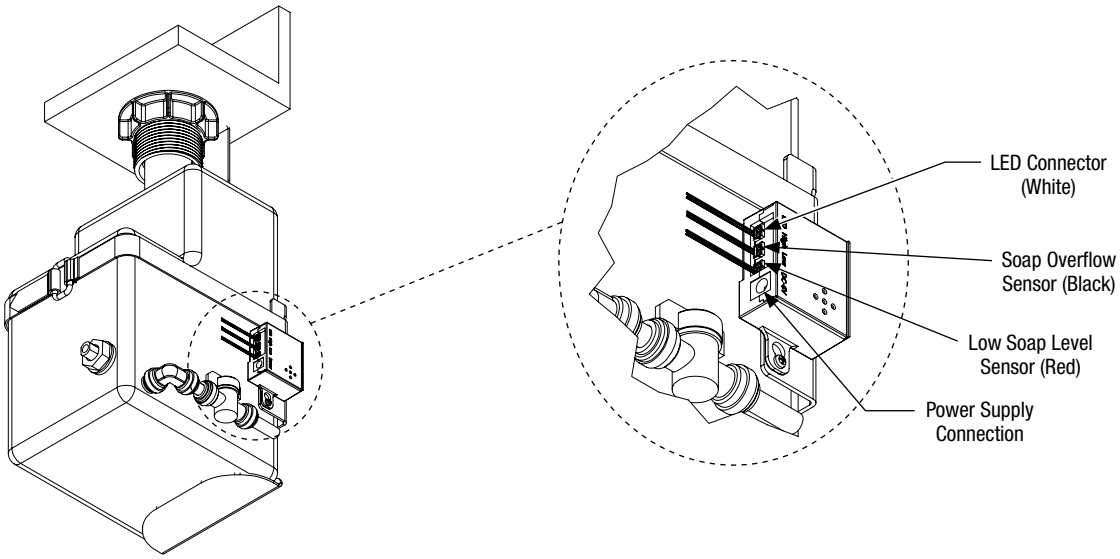
C Visually inspect the installation of U-cup is properly seated, ensuring U-cup does not obstruct fill port opening.

Reinstallation of tank or repositioning of U-cup from above may be needed to clear fill port opening.





Reconnect Soap Sensors & LED Connector

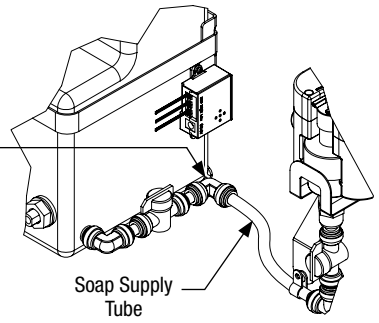


5 Soap Supply Connections

End Tank Configuration Installation

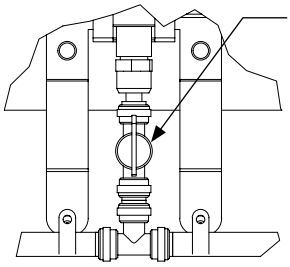
See page 13 for an overview of the end tank configuration installation.

A Insert 3/8" diameter tubing into the elbow as shown. Connect the supply tube to the nearest control box, cutting the supply tube to the shortest length between units.

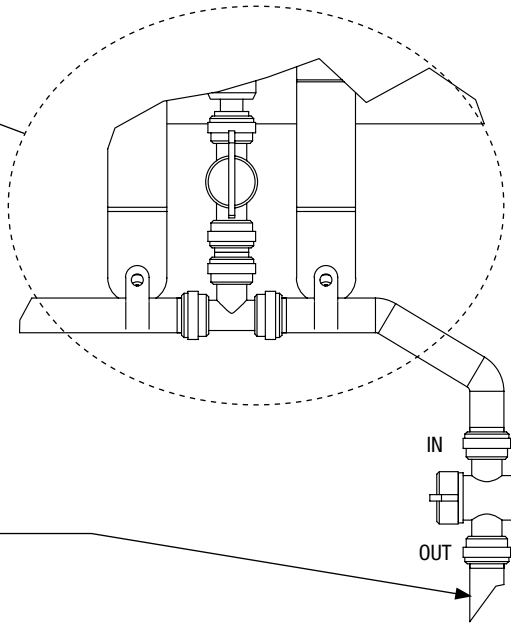


Tubing will slide 3/4" into the fittings.

B Connect the soap supply tubes between the control boxes, cutting the supply tube to the shortest length between units. See illustration on page 9.



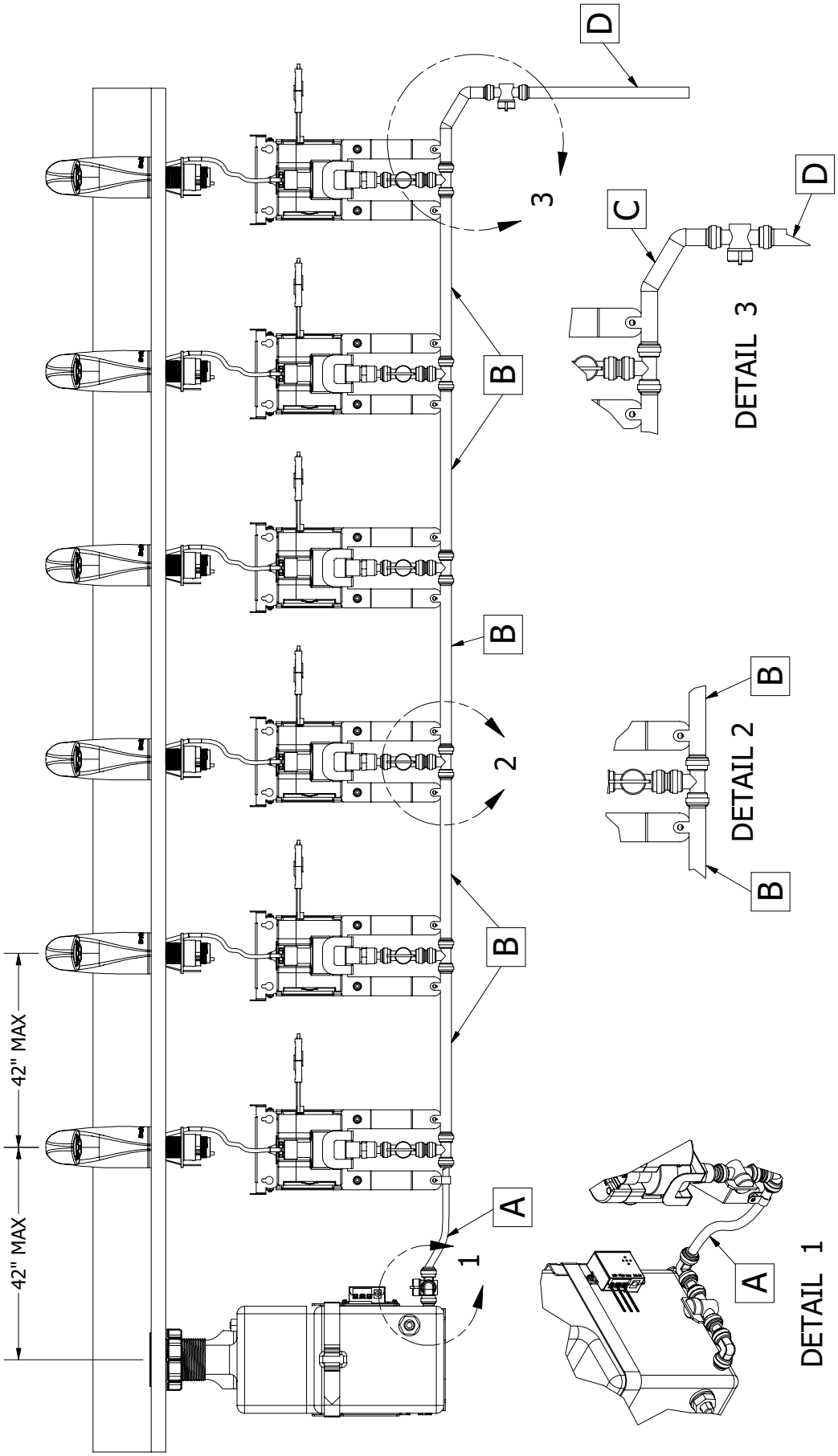
C Cut one piece of tubing 3"–4" in length and assemble as shown.



D Install extra tubing after the shut off valve (located at the end of the soap supply system).

Install the soap supply valve in the proper flow direction as shown on the valve.

Use the extra tubing when cleaning and/or maintaining the soap system.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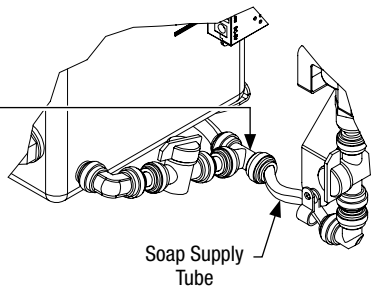
C
D
DETAIL 3
B
B
2
DETAIL 2
B
B
B
42" MAX
42" MAX
A
1
A
DETAIL 1

Mid Tank Configuration Installation

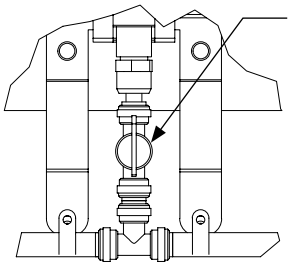
See page 15 for an overview of the mid tank configuration installation.

A Insert 3/8" diameter tubing into tee fitting as shown.

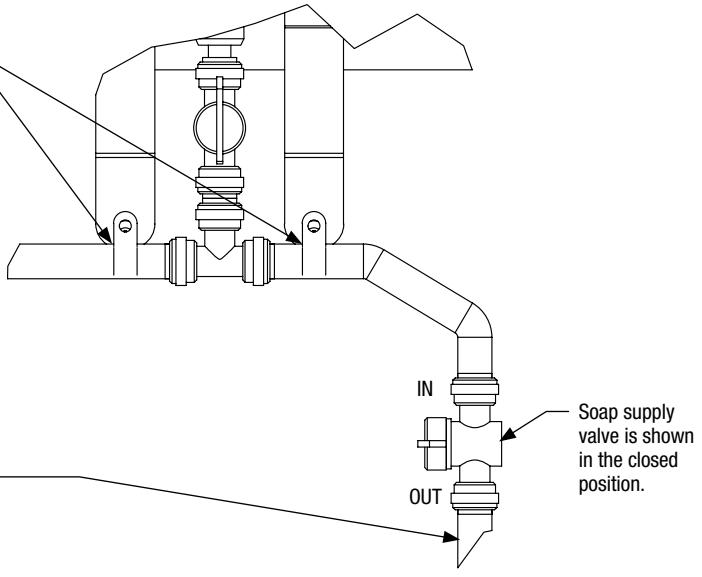
Tubing will slide 3/4" into the fittings.



B Connect the soap supply tubes between the control boxes, cutting the supply tube to the shortest length distance between units. See illustration on page 11.



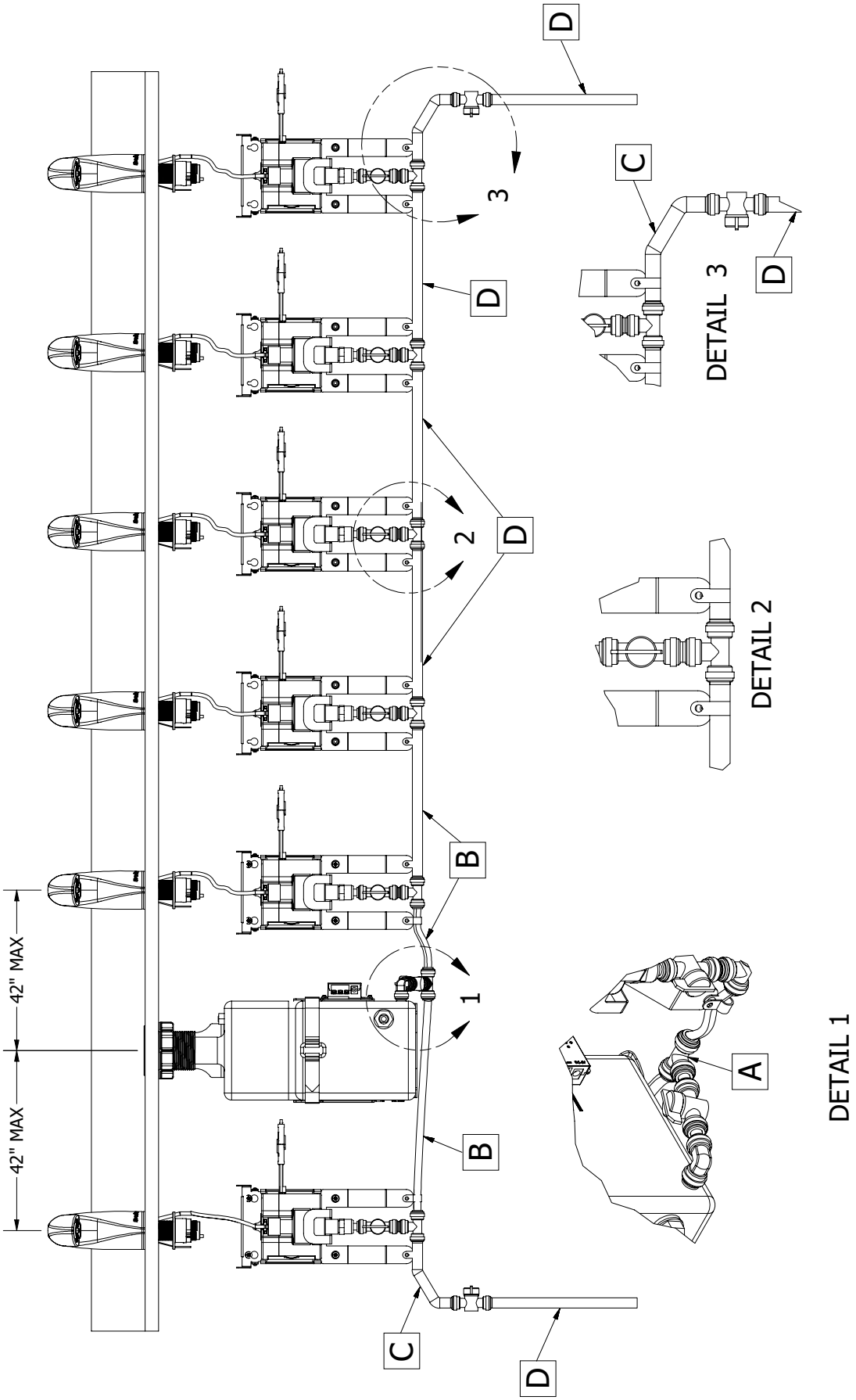
C Cut one piece of tubing 3"–4" in length and place the tubing through the straps on both sides of the control box as shown. Repeat this step for both ends of the soap supply system.



D Install extra tubing after the shut off valve (located at both ends of the soap supply system).

Install the soap supply valve in the proper flow direction as shown on the valve.

Use the extra tubing when cleaning and/or maintaining the soap system.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DETAIL 3
D
2
D
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B
1
42" MAX
42" MAX
A
DETAIL 1
B
C
D

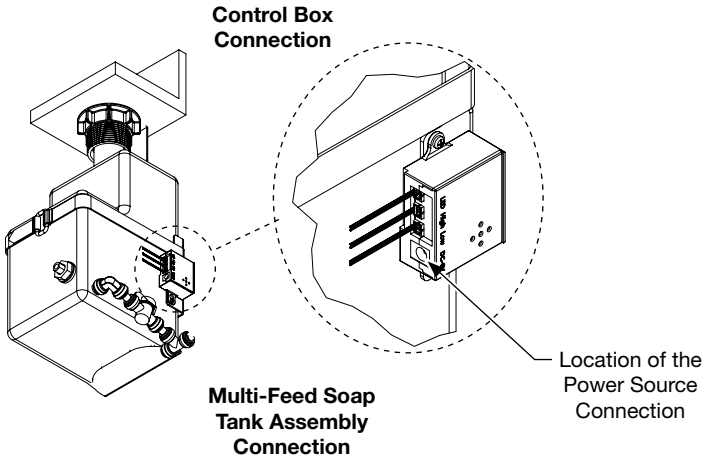
6 Power Supply Connections

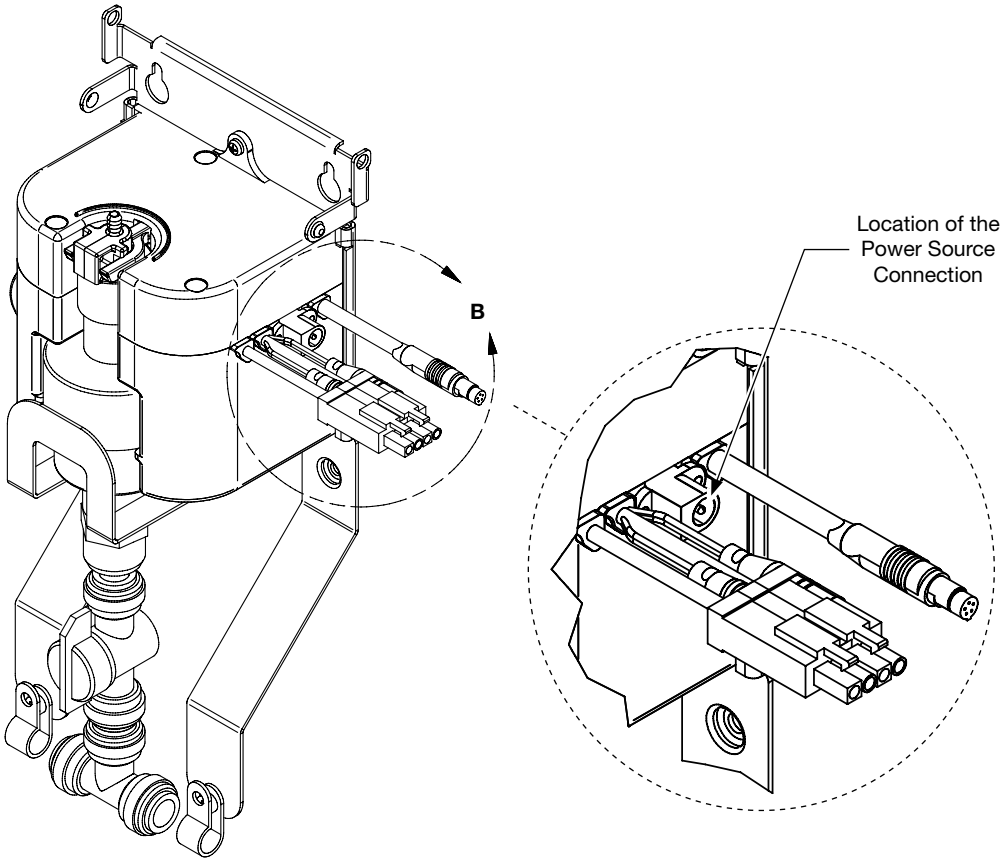
- ☑ *The multi-feed soap tank assembly and each of the control boxes require a power supply connection.*
- ☑ *The power supply can be a Bradley supplied battery pack, a single AC adaptor, or an AC adapter splitter assembly kit (see page 3), depending on the selection made at time of purchase.*

A Connect the power supply to the power source for the multi-feed tank system.

B Connect the power supply to the power source for the multi-feed soap tank assembly. When the connection is made, the LED at the base of the soap dispenser spout will flash green for 0.5 seconds.

- ☑ *Low soap and overflow sensors are not used in multi-feed applications (shown on page 7).*





7 Adding Soap to Multi-Feed Soap Tank Assembly

When the soap level is at approximately 25% capacity, the LED indicator on the fill port hub assembly will flash red, indicating low soap levels.

Soap tank capacity is 166.5 oz (5026 mL).

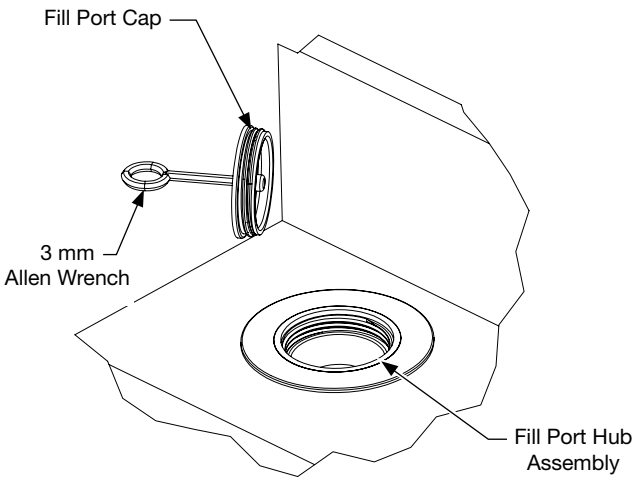
A Remove the fill port cap from the fill port hub assembly using the supplied 3 mm Allen wrench. Set the fill port cap aside.

B Slowly pour the soap into the fill port hub assembly.

To prevent overfilling, the LED indicator on the LED indicator will turn solid red and an audible indicator will sound for 2.5 seconds, indicating that soap levels are at 90% capacity.

C Replace the fill port cap into the fill port hub assembly and hand-tighten.

Initial installation requires multiple activations to prime each soap spout dispenser.



Operation Mode

Operation mode is the normal dispensing mode automatically activated when the soap dispenser is in use. All of the sensors are active in this mode.

While in operating mode:

- Soap is activated when IR sensor is triggered.
- When the voltage of the battery is lower than 4.6V ±0.2V for 7–10 seconds, the low power LED indicator flashes green/green and soap dispensing stops.
- When the soap level is below 25% capacity, the low soap LED indicator flashes red.
- When filling the soap fill port with soap, the overfill protection LED indicator becomes steady red and audible indicator sounds when the tank is at 90% capacity.

LED Indicators	Duration	Meaning
LED flashes green	1 second	Dispensing soap
LED flashes green/green	**ON:** 1.2 seconds (green for 0.5 seconds, pause for 0.2 seconds, green for 0.5 seconds) **OFF:** 2 seconds	Low power
LED flashes red	**ON:** 0.2 seconds **OFF:** 2 seconds Soap dispensing is enabled intermittently	Low soap
LED becomes steady red with audible indicator	2.5 seconds	Overfill protection
LED flashes red/green	0.5 seconds	First time powering up the system
LED solid red	Continuously solid	Maintenance required/cleaning of soap pump and system or possibly replacement of soap pump

Cleaning and Maintenance for Soap Dispenser

Wipe top and underside of soap dispenser with a mild neutral based cleaner. Dry with a soft cloth to avoid micro scratches in the soap dispenser finish and sensor plate.

Liquid Soap Recommendations & Dispenser Maintenance

Overview

Quality soap dispensers require good quality soap and periodic maintenance to properly operate. Bradley soap dispensers will provide dependable, consistent operation over the long term when soap with reasonable viscosity and pH levels are used and when a minimal amount of periodic maintenance is performed on the valves. Most soap dispenser problems are caused by soap that is too thick or corrosive, or by a lack of maintenance. Many soaps come in concentrate form which must be diluted with water. Often, the soap is improperly diluted or used straight out of the bottle, which causes clogging and valve failure. If proper soap is being used, valves that have never been cleaned are usually the source of dispensing problems. With proper maintenance and soap, Bradley dispensers will provide long term, trouble free operation.

Viscosity

Soap thickness is determined by a measurement called viscosity. Soap viscosity should be between 100 cps (centipoise) and 5000 cps for all Verge liquid soap dispensers. Thick soaps flow slower and inhibit the “flushing” action of the valves, which allows the soap to congeal in the valve and cause clogs.

pH Level

The pH (acid) level of the soap should be in the range of 6.5 to 8.5. More acidic soaps (pH levels lower than 6.5) will corrode metal parts (even stainless steel!!) and degrade rubber and plastic components. They will also cause skin irritation. Most inexpensive soaps (typically the pink lotion type) fall into this acidic category and will eventually cause valve failure and metal corrosion.

⚠CAUTION Base soaps (pH levels higher than 8.5) will cause skin irritation and swelling or degradation of rubber and plastic parts.

Soap Valves

Valves must also be maintained (cleaned) to function properly. At the very minimum, hot water should be pumped through valves periodically to clear out soap residue. Ideally, valves should occasionally be soaked for 30 minutes in hot water or a soap valve cleaning solution. The valve should be pumped at least 20 times while it is soaking to clear any clogs. The soap reservoir should also be flushed with hot water. Generally, any quality soap meeting the viscosity and pH guidelines above will work well with Bradley soap dispensers. PCMX or Isopropanol based antibacterial soaps (within viscosity and pH limits) will also work with Bradley dispensers. Soaps satisfying these basic guidelines will provide consistent flow and reduce clogs.