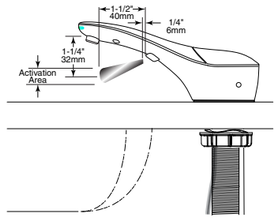
**To Operate:**

1. **Prime Unit –** After filling dispenser, plug in power to start prime. If unit is plugged in prior to filling dispenser, place hand under spout within sensor location to start prime.



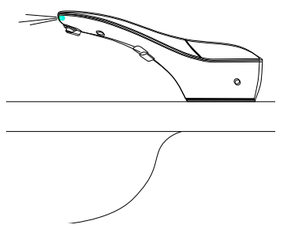
2. **Standard Dispense –** Place hand under spout within the sensor location for approximately 1/2 second to dispense controlled amount of liquid hand soap.




3. **Adjusting amount of soap dispensed –** Depending on viscosity of liquid soap used, unit may dispense between 0.4 ml to 3 ml of soap. To reduce output of liquid soap, rotate Portion Control Knob counter-clockwise. To increase the output of liquid soap, turn the knob clockwise.




4. **LED Light Indicators –** When activated, solid green LED will light. If green light is flashing, remove hand to allow unit to reset, then activate again. Flashing red LED light indicates time to replace batteries.



**Routine Cleaning and Maintenance:**

Using a damp cloth, wipe the chrome-plated exterior of the dispenser daily. Periodically (about 3 to 6 months), it is recommended to flush the system with lukewarm water for cleaning and maintenance.




1. When minimal amount of soap is left in the bottle, fill dispenser with lukewarm water from top to dilute soap.
2. Press the Automatic System Flush Button to flush the system.
3. Once unit is flushed, press the Automatic System Flush Button again to stop dispensing.
4. Fill unit with fresh soap and dispense as usual.

**Troubleshooting:**

1. Soap dispenser does not dispense soap, but you can hear motor running. The green LED lights up when hands are under spout.
   a. Press the Automatic System Flush Button until soap comes out.
   b. Press the Automatic System Flush Button again to turn it off.
2. Soap dispenser does not dispense soap and you cannot hear motor running. The green LED does not light up when hands are under spout.
   a. Be sure power is supplied to unit.
   b. Make sure Fiber Optic Nut is tight on Fiber Optic Port.

**Warranty:**

SureFlo Automatic Liquid Soap Dispenser is warranted to be free from defects in workmanship and material under normal usage from the date of purchase for a period of 3 years.

BOBRICK

BUILDING VALUE SINCE 1906

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# SureFlo® Automatic, Counter-Mounted Soap Dispenser

## INSTRUCTIONS FOR INSTALLATION, OPERATION & MAINTENANCE

### BOBRICK MODEL B-824 LIQUID SOAP DISPENSER

**Clearances and Mounting Requirements:**

- 1-3/8" (35mm) diameter mounting hole required.
- Minimum 18" (457mm) vertical clearance needed below the counter.
- 5" (127mm) diameter clearance needed below the mounting hole to accommodate bottle and bottom housing.
- Minimum 2-1/4" (57mm) diameter clearance needed for Mounting nut directly below the counter to clear sink rim.
- Recommend drilling mounting hole 6" to 8" (152 to 203mm) from the wall, and 2-1/2" to 3" (64 to 76mm) from sink rim.

Scan For SureFlo Installation and Maintenance Instructions.

**For New Installation:**

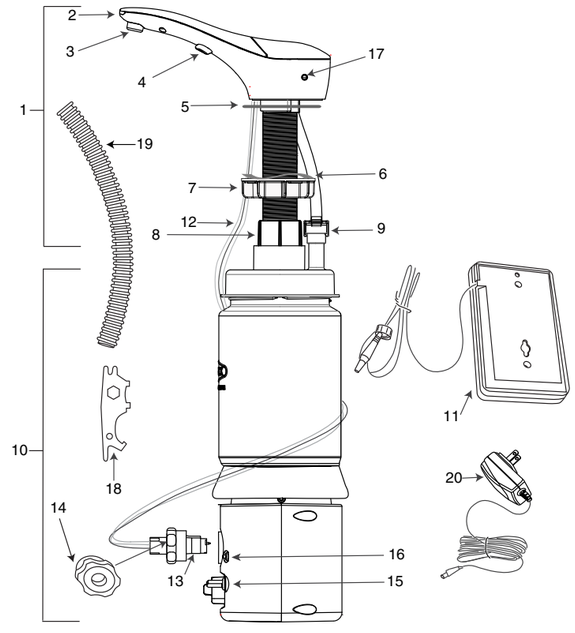
- Refer to mounting template for drilling locations (Form No. 824-307).

**For Retrofit:**

1. Remove existing dispenser(s).
2. Clean area.
3. Ensure hole is 1-3/8" (35mm) diameter.
4. If necessary, enlarge opening using appropriate hole saw. For granite/marble counters, recommend using a diamond hole saw (consult with stone and granite specialist). If needed, mounting hole should be offset to clear the sink rim. The Mounting Nut requires 2-1/4" (57mm) diameter clearance directly below the counter.

**Unit Diagram:**

| Item | Description |
|---|---|
| 1 | Top Assembly with Spout, Door and Stem |
| 2 | LED Light Pipe |
| 3 | Liquid Nozzle Tip |
| 4 | Fiber Optic Insert with Sensor Lenses |
| 5 | Rubber Counter Gasket |
| 6 | Wave Washer |
| 7 | Mounting Nut |
| 8 | Stem Mounting Nut |
| 9 | Duckbill Housing |
| 10 | Bottom Housing Assembly (includes Soap Bottle) |
| 11 | Battery Pack (requires (4) “D” cell alkaline batteries not included) |
| 12 | (3) Fiber Optic Cables for Sensor and LED Light Pipe |
| 13 | Fiber Optic Connector Tip Assembly |
| 14 | Fiber Optic Nut |
| 15 | Portion Control Knob |
| 16 | Automatic System Flush Button |
| 17 | Key Hole |
| 18 | BobKey |
| 19 | Fiber Optic Cable Cover |
| 20 | Optional: A/C Adapter Kit with U.S. Plug, Order Part No. 3974-57. International AC Adapter Plug Kit (UK, Europe Australia) 3974-55 |



**Installation:**



1. Place Counter Gasket over mounting hole to align with profile of dispenser.



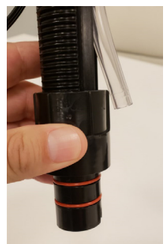
2. Insert Stem with tube and all Fiber Optic Cables carefully through mounting hole.



3. Place the Wave Washer on top of the Mounting Nut. Install Mounting Nut on Stem and thread upwards. (Minimum 2-1/4" (57mm) diameter clearance needed below mounting nut).

**NOTE:** The outer diameter of the Mounting Nut may need to be dremeled down if space under the counter is tight.

**NOTE:** Make sure Fiber Optic Cables and Tubing are **INSIDE** Mounting Nut. Do not tighten completely until end of installation.



4. Thread the Stem Locking Nut onto the Stem. The ribs on the Nut are to be towards the top. Once it goes past the two red o-rings, the nut will automatically stop threading.



5. Attach the tubing to the top barb of the Duckbill Housing.



6. The Bottle Cap can only be placed onto the Stem in one orientation.

   The flat section on the Stem is to be aligned with the flat section on the Bottle Cap.



7. Rotate the Bottle back and forth to align the flat section of the Stem to the flat section on the Bottle.



8. Push the Bottle Assembly up onto the Stem while also inserting the Duckbill Housing into the hole in the post on the Bottle Cap.

   Fully insert the Bottle Assembly over the Stem until it stops. Both red o-rings must be inside the Bottle Cap.



**Replacement Parts List**

| Part Name | Part No. |
|---|---|
| - A/C Adapter | 3974-57 |
| - International AC Adapter Plug Kit (U. K., Europe, Australia) | 3974-55 |
| - Mack Gasket Kit (To secure Top Assembly under the counter due to irregular counter surface) | 824-167 |
| - External A/C Multi Adapter Kit | 824-201 |
| - Nozzle Tip Replacement Kit Liquid | 824-210 |
| - D Size Battery Pack (Batteries not included) | 824-241 |
| - Duckbill Housing | 824-322 |
| - Installation Hardware Packet (Includes Wave Washer, Counter Gasket, Mounting Nut, BobKey, Stem Mounting Nut) | 824-443 |
| - Top Housing Assembly Liquid (Includes Installation Hardware Packet and Duckbill Housing) | 824-525 |
| - Bottom Housing Assembly Liquid | 824-550 |













9. While pushing upwards on the Bottle, Thread the Stem Locking Nut down onto the Bottle Cap threads

**NOTE:** After assembly, hold the Stem and lightly rotate the Bottle back and forth and tug down to be sure it is on tight. If it is loose, repeat Steps 7 and 8.

**NOTE:** Tug Tubing on Duckbill Housing down from under the counter to straighten out the tubing.

10. Insert Fiber Optic Connector Tip into Bottom Housing. Keyed feature on Connector Tip ensures Fiber Optic Cables are always located correctly.

11. Thread Fiber Optic Nut onto Connector Port and tighten completely.

12. Place Fiber Optic cable cover over loose fiber optics to conceal.

**NOTE:** DO NOT bend or kink Fiber Optic Cables.



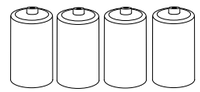
13. Align the Top Assembly above the counter to the desired position and tighten the Mounting Nut against the bottom of counter so the Top Assembly does not easily rotate. Make sure Fiber Optic Cables are not between the underside of the counter and top of Mounting Nut. See Steps 3 and 4.

    Apply a bead of Silicone around the base of the Top Housing to prevent spilled soap from going through the mounting hole.



14. Mount Battery Pack on wall nearest dispenser. Mounting hardware is inside the Battery Pack.

    *Round Cap on plug is not required for this model, pull back prior to plugging into port.

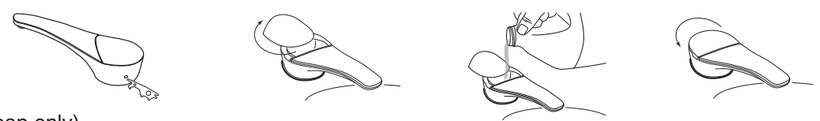


15. Install 4 "D" cell Alkaline batteries.




16. Plug Power Supply into Bottom Housing base.

## TOP FILL ONLY !



**Filling Instructions:** (use liquid soap only)

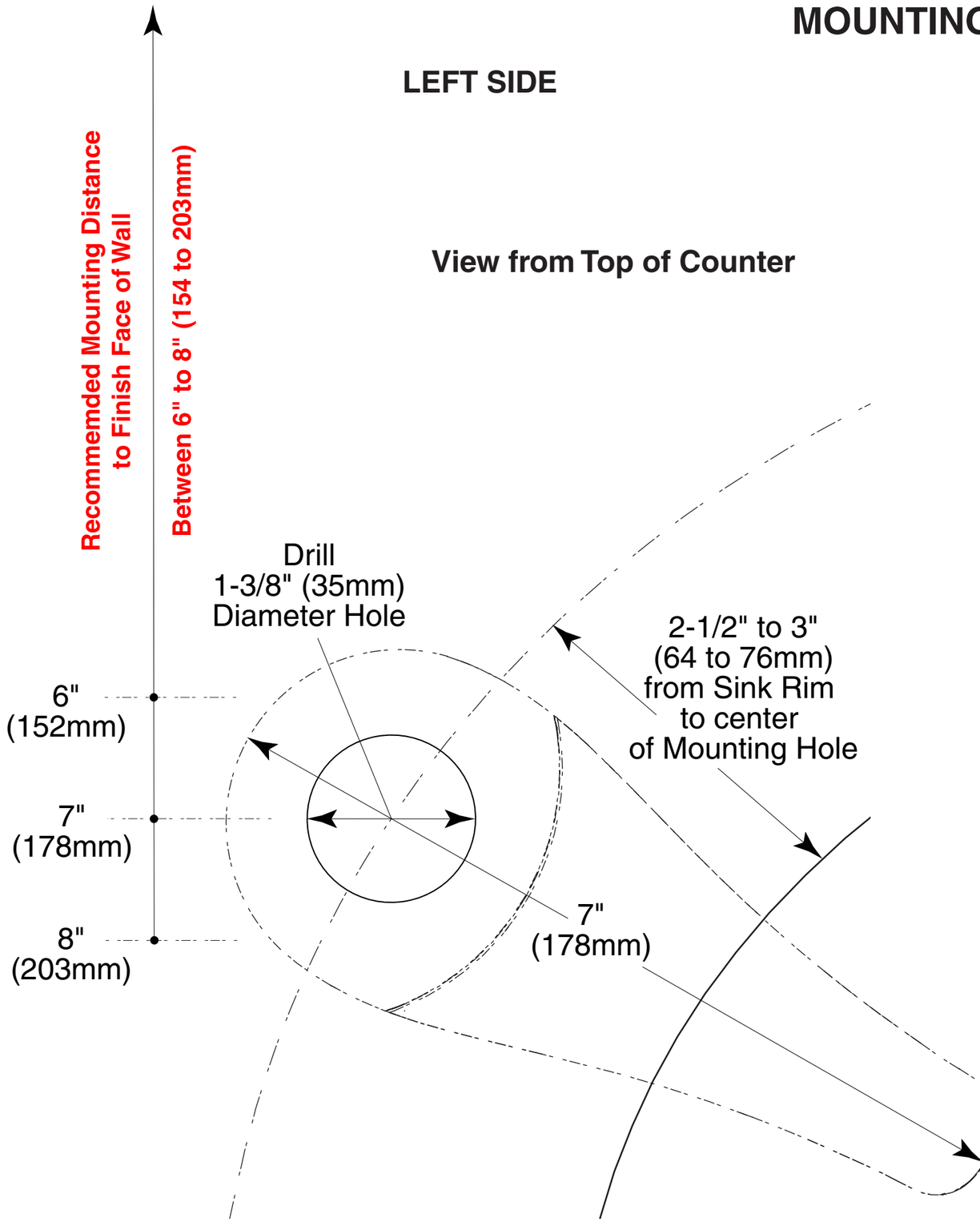
Unit will dispense Bulk Liquid Soap within a viscosity range of 100 to 19,000 cP.

1. Insert tip of BobKey provided into opening of concealed locking mechanism to disengage door.
2. Door will disengage and rotate clockwise for filling from the top.
3. Fill dispenser with commercially marketed bulk liquid hand soap **(Do not use foam liquid or lotion soap)**.
4. Close door counter-clockwise to lock in place.

# MOUNTING TEMPLATE

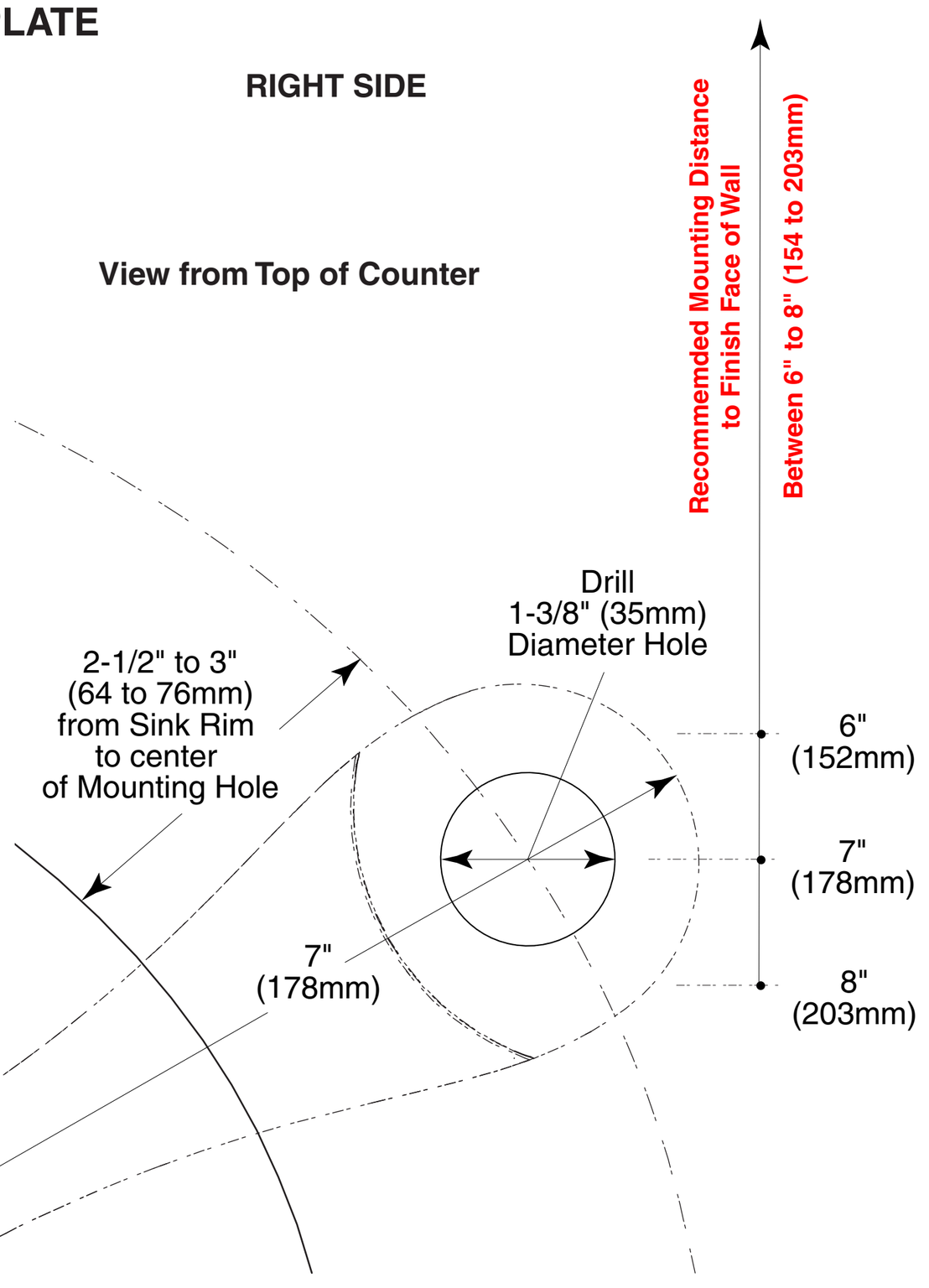
## LEFT SIDE

View from Top of Counter




## RIGHT SIDE

View from Top of Counter



# MOUNTING TEMPLATE

## SureFlo® Automatic Counter-Mounted Soap Dispensers
## (Bobrick Models B-824, B-850, B-852. B-855, B-856, B-858 Liquid)

**Required Clearances:**

Mounting Hole: 1-3/8" (35mm) diameter

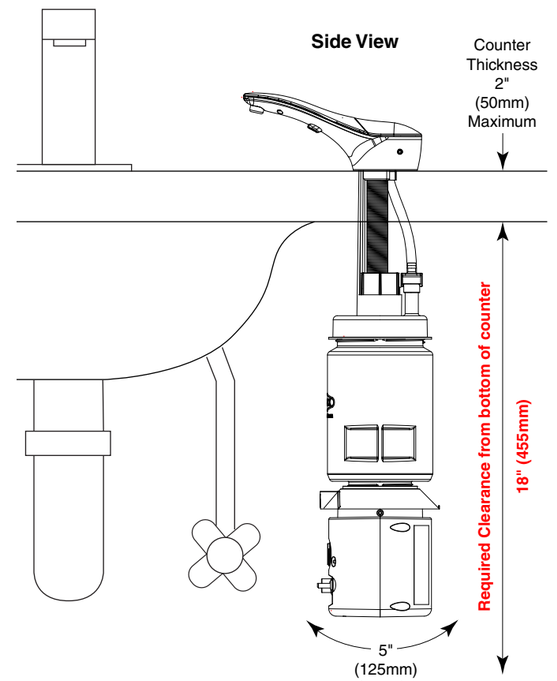
Maximum Counter Thickness: 2" (50mm)

Below Counter:

18" (457mm) vertical clearance

5" (127mm) diameter directly below mounting hole for bottle and bottom housing.

2-1/4" (57mm) diameter needed for mounting nut directly below mounting hole. If sink rim below the counter is within the clearance area, use a spacer to ensure mounting nut is firmly tightened against, bottom of the counter.



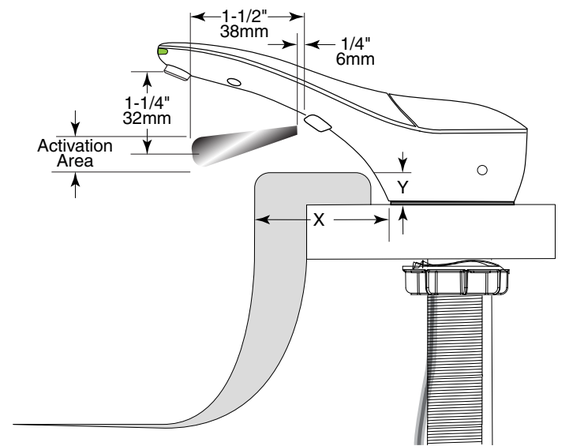

**Instructions:**

1. Using template, locate mounting hole position (on left or right side). Ensure sink and plumbing fixtures **DO NOT** interfere with dispenser above or below the counter (refer to clearances).
2. Drill 1-3/8" (35mm) diameter hole.

**Sinks with Rim Over the Counter Area:**

Unit is not compatible with a sink rim greater than the maximum dimensions listed below:

| | |
|---|---|
| Option A | X = 1-1/2" (38mm) Maximum<br>Y = 1" (25mm) Maximum |
| Option B | X = 2-1/2" (63mm) Maximum<br>Y = 1/2" (12mm) Maximum |




**CAUTION:**

Rim must not come into contact with activation area.

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# INSTRUCTIONS FOR CONVERTING
# SureFlo® AUTOMATIC COUNTER-MOUNTED SOAP DISPENSERS
# B-824 LIQUID AND B-828 FOAM FROM BATTERIES TO AC POWER USING THE MULTI ADAPTER

WITH 824-201, AC ADAPTER KIT (DOES NOT INCLUDE INTERCHANGEABLE PLUGS FOR U.K., EUROPE, AND AUSTRALIA. IF NEEDED, ORDER ASSORTMENT PLUG KIT, PART. NO. 824-202 TO FIT CORRESPONDING PLUG)

Bobrick Part Number 824-201, AC Adapter Kit includes:

- Distributor Box used to connect 4 Dispensers = Bobrick P/N: 319308
- Single AC Adapter = Bobrick P/N: 824-222
- Four Wire Assemblies = Bobrick P/N: 319309

This kit is supplied with a cULus, CE, GS listed, double insulated AC to DC switching power supply. The power supply is equipped with a low voltage outlet cord terminated with a barrel connector for attachment with a mating jack located in the Multi Adapter Distributor Box. The power supply is equipped with an interchangeable standard 2 pole NEMA plug intended for direct mounting into a standard 120V NEMA duplex outlet. For warranty purposes, it is required that the power converter must plug into an AC outlet that is not accessible to the dispenser user. If not available, consult a licensed electrical contractor. The power supply output is to be routed through the mounting wall as a low voltage, energy limited circuit, similar to a thermostat wire, with no requirement for electrical box or attachment strain relief. Use only the power supply supplied with this unit. Any substitution could damage the unit and will void any warranty.

1. Locate or provide an AC outlet that is not accessible to the dispenser user.

   A. See a qualified, licensed electrician for the proper installation of a standard 120V NEMA duplex outlet, if one is required, and for the proper routing of the 824-201 AC to DC Switching Power Supply. The installation must comply with local building code.

2. Plug the barrel plug end of the AC to DC switch power supply (see Fig. A) into the AC to DC power jack in the B-824/B-828 Automatic Soap Dispenser. Use this step for all additional dispensers (see Fig. B). Extra cord should be stored in a location inaccessible to the dispenser user.

3. Plug the power source end into the Multi Adapter Distributor Box (see Fig C).

   **Note:** Only 4 B-824/828 can be plugged into the Power Distributor Box.

4. Plug power supply into an outlet (see Fig. D), and allow unit to cycle through. (LED lights will flash through the Light Pipe (see Fig. E) of each unit as it cycles through and primes each dispenser).

5. If not fully primed, prime dispenser by placing hand under spout repeatedly until fully primed. Hand must be removed from activation area to reset each time.

For Trouble shooting dispenser refer to installation instruction sheet Form No. 824-191.

**Fig. A**

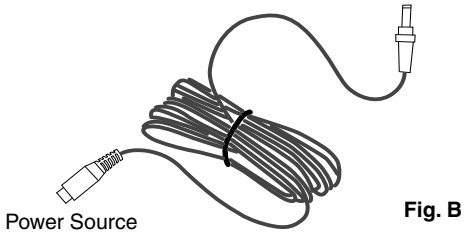



**Fig. B**

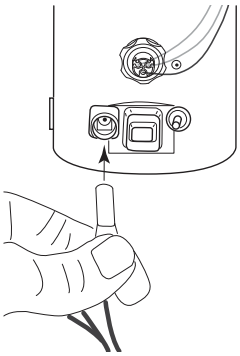


**Fig. C**

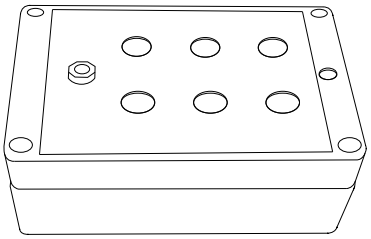


**Fig. D**

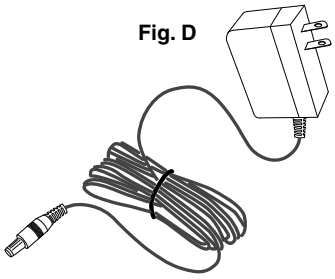
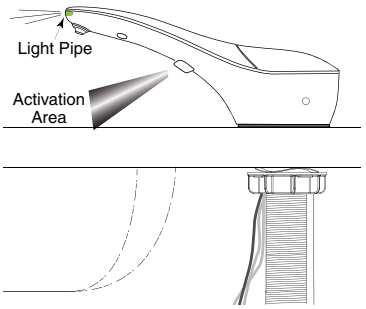


**Fig. E**




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