Piezo Switch

Mechanical PushButton

Front Mount Spout
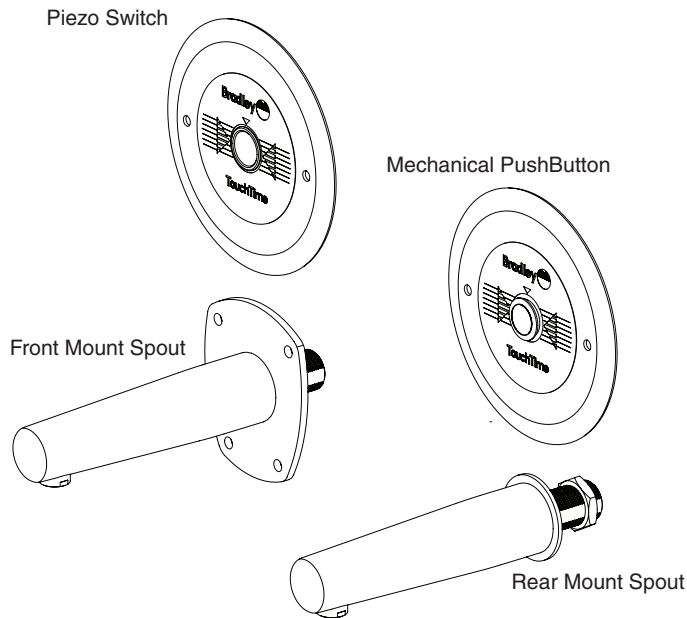
Rear Mount Spout

Installation

ABP-1C TouchTime®
Ablution System

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WARNING

Make sure that all water supply lines have been flushed and then completely turned off before beginning installation. Debris in the supply lines can cause valves to malfunction.

NOTICE

Water supply requires a flowing pressure of at least 20 psi, but no greater than 80 psi.

IMPORTANT

Read this entire installation manual to ensure proper installation. When finished with the installation, file this manual with the owner or maintenance department. Compliance and conformity to local codes and ordinances is the responsibility of the installer.

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.

Product warranties may be found under "Products" on our website at www.bradleycorp.com.

Pre-Installation Information

TouchTime®

The ABP-1C TouchTime® ablution system controls water flow at each station through the use of a timer module. When the pushbutton is pressed, a signal is sent controlling the opening and closing of the fixture's solenoid valve. The valve then delivers water to the fixture for a preset length of time of 60 seconds (run time is field adjustable).

Recommended Heights

Bradley ABP-1C TouchTime can be installed at any height (see recommended height chart to the right).

✔ *The heights listed are measured from finish floor to spout/head centerline.*

Recommended Ablution System Heights	
Ablution Types	**Floor to Spout/ Head Centerline Height**
Ablution w/ seat	74cm (29 in)
Ablution w/ lavatory	94cm (37 in)
Ablution no seat	150cm (59 in)

Components

Material: All exposed parts are stainless steel or polished chrome-plated brass.

Supply Inlet: The supply inlet to the solenoid valve is 3/8" O.D. Comp (without supply stop) or 5/8" O.D. comp (with optional supply stop).

TouchTime and Solenoid Valve: Each TouchTime mechanical pushbutton/piezo switch activates a flow of water. Each nozzle is controlled by a separate solenoid valve, allowing each user to activate a flow of tempered water from one spray nozzle with a pushbutton or piezo switch for 60 seconds. Each valve uses less than half the maximum amount of hot water allowed by the ANSI/ASHRAE/IES 90A-1980 Standard. Activation time can be adjusted in the field.

Solenoid Valve: An electronically controlled solenoid valve serves as the metering mechanism. Few moving parts provide reliable metering performance and the solenoid is unaffected by chemicals and minerals often present in municipal water supplies.

Supplies Required for Installation

- 1/2" NPT piping, 1/2" NPT tempered water supply piping and 3/8" compression to 1/2" NPT adapter (required on models without optional supply stop)
- (4) 1/4"-20 wall anchors for spout/head, (2) #10 wall anchors for pushbutton assembly and (2) #10 fasteners for attaching valve block to interior of wall.
- Teflon tape or teflon pipe dope
- 110 VAC power source for the 12V DC plug in adapter (supplied by installer or available from Bradley as an option)
- OPTIONAL: Bradley recommends installing an electrical cut-off switch to the unit. This feature allows no accidental water delivery during regular maintenance and service.

1 Rough-In

⚠ **WARNING! The ABP-1C TouchTime must be connected with a 120VAC/12VDC plug in adapter. Connection directly to incorrect voltage will result in damage to the electronics and could result in personal injury.**

✔ *Refer to recommended ablution system heights shown above and rough-in images shown on page 3.*

A Rough-in tempered water supply piping to the solenoid valve and spout/head as required for your installation.

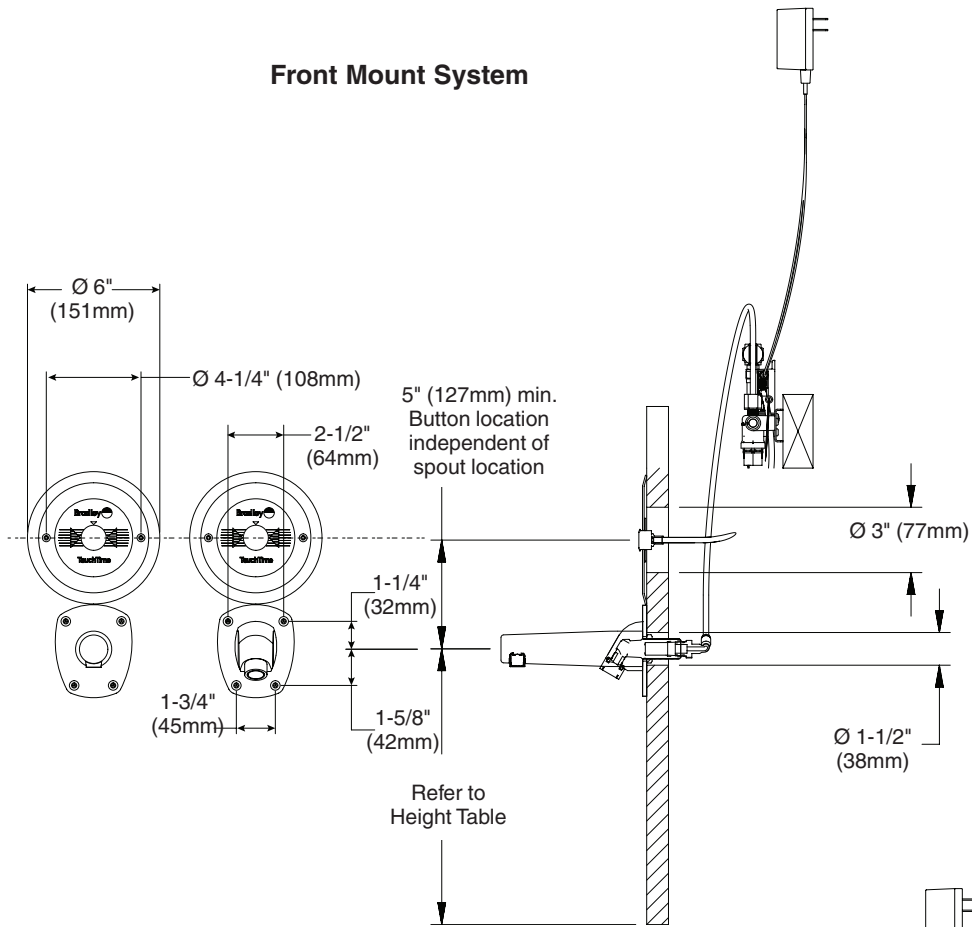**C** Install (2) #10 wall anchors (supplied by installer) to secure pushbutton assembly.

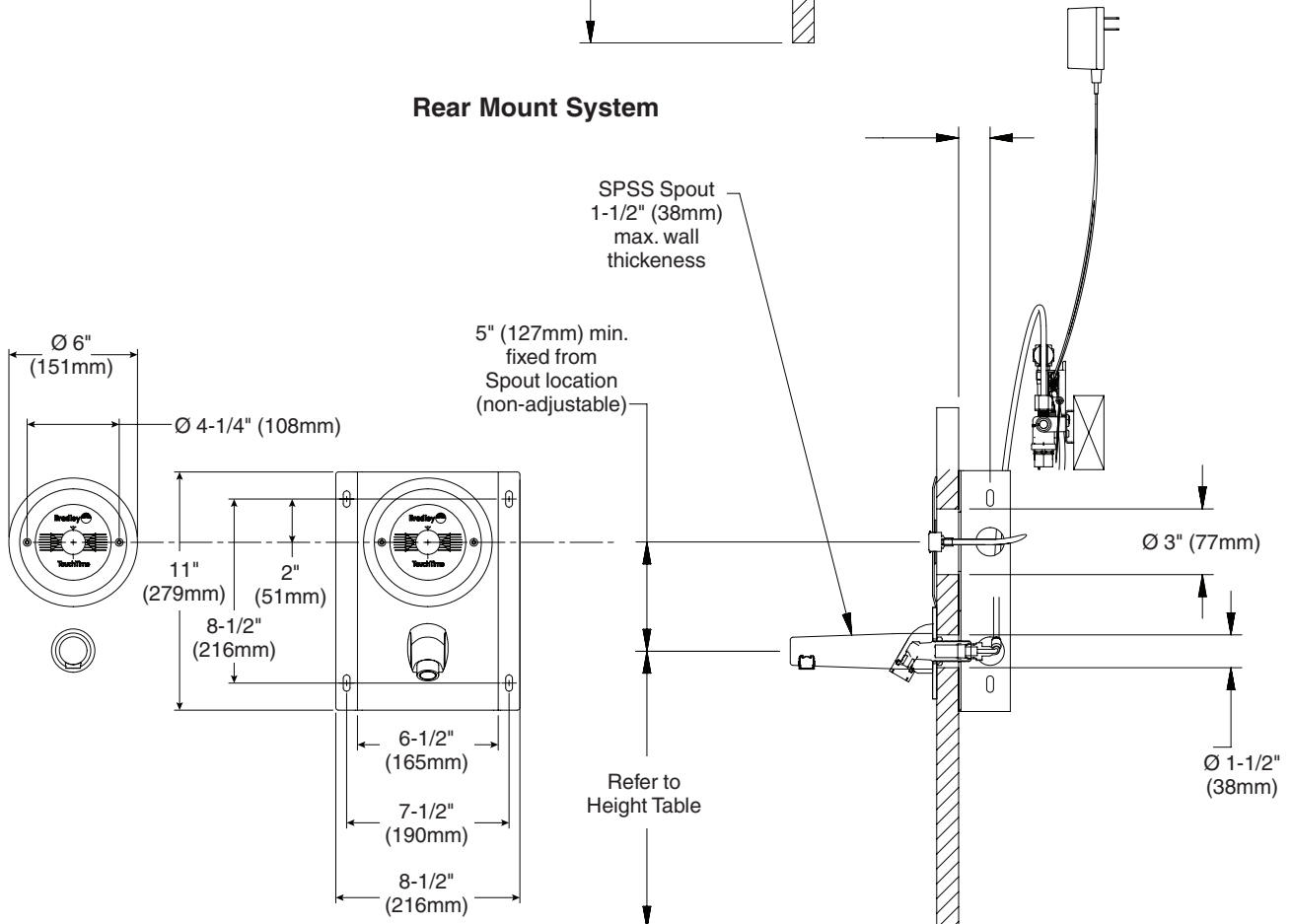**B** Rough-in wall openings for the spout/head and pushbutton as required for your installation.

D Install (2) #10 screws (supplied by installer) to secure valve assembly to interior studs/wall.

Front Mount System

Ø 6"
(151mm)

Ø 4-1/4" (108mm)

2-1/2"
(64mm)

5" (127mm) min.
Button location
independent of
spout location

Ø 3" (77mm)

1-1/4"
(32mm)

1-3/4"
(45mm)

1-5/8"
(42mm)

Ø 1-1/2"
(38mm)

Refer to
Height Table

Rear Mount System

SPSS Spout
1-1/2" (38mm)
max. wall
thickeness

5" (127mm) min.
fixed from
Spout location
(non-adjustable)

Ø 6"
(151mm)

Ø 4-1/4" (108mm)

Ø 3" (77mm)

11"
(279mm)

2"
(51mm)

8-1/2"
(216mm)

6-1/2"
(165mm)

7-1/2"
(190mm)

8-1/2"
(216mm)

Ø 1-1/2"
(38mm)

Refer to
Height Table

2 | Make Electrical Connections

⚠️**WARNING**   **DO NOT put the 120VAC/12VDC plug in adapter in the ablution room. Check local codes and ordinances for proper location and connection requirements. Conformity to local codes is the responsibility of the installer.**

⚠️**WARNING**   **DO NOT activate power to your ablution panel until installation is complete.**
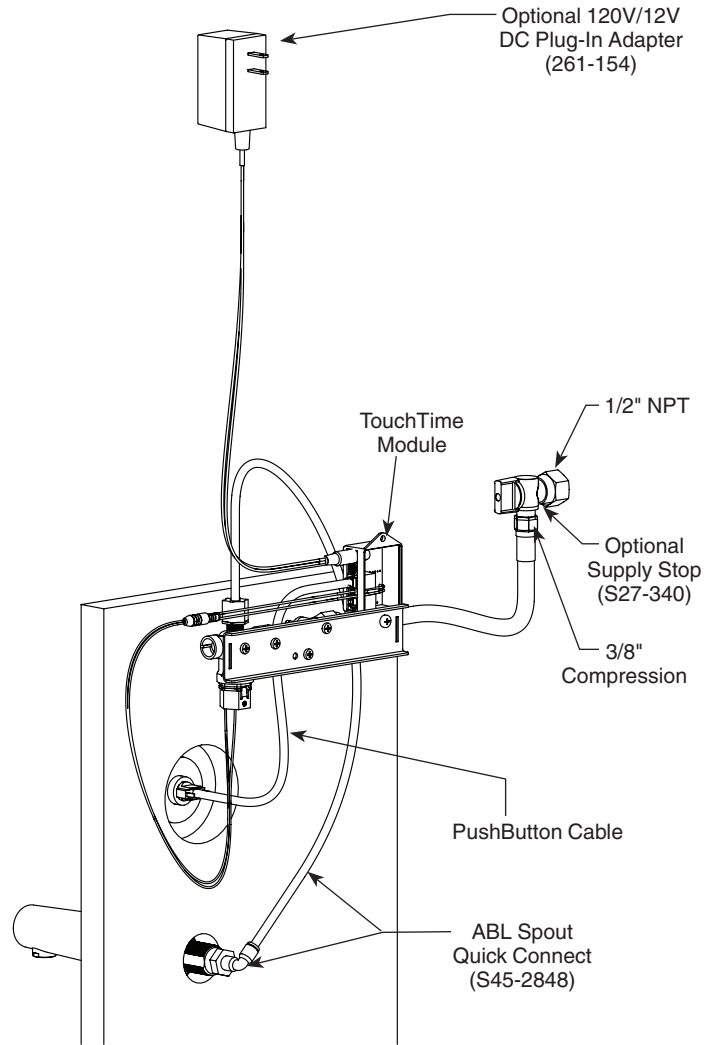
⚠️**WARNING**   **Verify that the electrical source to the fixture is 12V DC.**

NOTICE: Connection of leads other than shown below may cause permanent damage to the electrodes.

✔️ *Activation of the pushbutton takes place only when it is released, thereby preventing "hold open" activation.*

A   Install a 120V/12V DC plug in adapter in a remote location a safe distance from the ablution room.

B   Connect cable from solenoid to TouchTime module. Connect cable from pushbutton to TouchTime module. Connect cable from DC adapter to TouchTime module.

Optional 120V/12V DC Plug-In Adapter (261-154)

TouchTime Module

1/2" NPT

Optional Supply Stop (S27-340)

3/8" Compression

PushButton Cable

ABL Spout Quick Connect (S45-2848)

3   Adjusting the TouchTime Module

✅ *The TouchTime module is set at the factory with the selector switch in position 7. This provides a 60 second time out period.*

✅ *The 24 hour flush function will activate water flow for a period of 60 seconds any time there has been no activation within the past 24 hours. This function is used to help clear stagnant water from the plumbing system and can provide some measure of prevention against the formation of bacteria in supply pipes.*

A To adjust the TouchTime module to a different time out period, turn the selector switch to the desired time out setting (4 through 9 for no flush, A though F for 24 hours flush) as indicated on the module label.

S83-360 Timer
Indicators
Red = Disabled
Green = In Use/Activation Length
Diagnostic - See Instructions
0: Test Timer Module I/O
1: Solenoid Open & Close 1s
Custom - See Instructions
2: Push Button Light On/Off
3: Timeout Period
Timeout Setting

Timeout Setting	
4: 4s, no flush	A: 4s, 24hr flush
5: 15s, no flush	B: 15s, 24hr flush
6: 30s, no flush	C: 30s, 24hr flush
7: 60s, no flush	D: 60s, 24hr flush
8: 180s, no flush	E: 180s, 24hr flush
9: 300s, no flush	F: 300s, 24hr flush

⊖—⊂—⊕ 12VDC   Bradley®

114-325 Rev A

4   Complete Installation

A **Front mount units:** Secure the spout/head to the 1/4"-20 wall anchors (supplied by installer) using the screws provided.

Rear mount systems with SPSS spout: Install and tighten nut.

Rear mount system with SX spout: Install and tighten (2) 1/4-20 fasteners (supplied by installer)

B Secure the pushbutton to the #10 wall anchors (supplied by installer).

C Connect the spout/head to valve with the ABL spout quick connect kit (S45-2848)

D Connect 3/8" comp end hose or optional supply stop to supply.

E Turn on the water supply to the ablution and check for leaks.

F Turn on the power to the ablution and press the pushbutton several times to purge air from the lines.

TouchTime® Valve Parts List

For service please see service guide 215-1369-38 for solenoid valve and TouchTime information.

Cleaning and Maintenance for Stainless Steel

Material Description: Stainless steel is extremely durable, and maintenance is simple and inexpensive. Proper care, particularly under corrosive conditions, is essential. Always start with the simplest solution and work your way toward the more complicated.

Routine cleaning: Daily or as often as needed use a solution of warm water and soap, detergent, or ammonia. Apply the cleaning solution per the manufacturer's instructions and always use a soft cloth or sponge to avoid damaging the finish.

Stubborn Stains: To remove stains from stainless steel use a stainless steel cleaner and polish such as Ball® stainless steel cleaner or a soft abrasive. Always follow the manufacturer's instructions and apply in the same direction as the polish lines.

NOTICE! **Never use ordinary steel wool or steel brushes on stainless steel. Always use stainless steel wool or stainless steel brushes.**

Fingerprints and Smears: To remove fingerprints or smears use a high quality stainless steel cleaner and polish in accordance with the manufacturer's instructions. Many of these products leave a protective coating that helps prevent future smears and fingerprints.

Grease and Oil: To remove grease and oil use a quality commercial detergent or caustic cleaner. Apply in accordance to the manufacturer's instructions and in the direction of the polish lines.

Precautions: Avoid prolonged contact with chlorides (bleaches, salts), bromides (sanitizing agents), thiocyanates (pesticides, photography chemicals, and some foods), and iodides on stainless steel equipment, especially if acid conditions exist.

NOTICE! **Do not permit salty solutions to evaporate and dry on stainless steel.**

The appearance of rust streaks on stainless steel leads to the belief that the stainless steel is rusting. Look for the actual source of the rust in some iron or steel particles which may be touching, but not actually a part of the stainless steel structure.

NOTICE! **Strongly acidic or caustic cleaners may attack the steel causing a reddish film to appear. The use of these cleaners should be avoided.**

Brand Names

Use of brand names is intended only to indicate a type of cleaner. This does not constitute an endorsement, nor does the omission of any brand name cleaner imply inadequacy. Many products named are regional in distribution, and can be found in local supermarkets, department and hardware stores, or through your cleaning service. It is emphasized that all products should be used in strict accordance with package instructions.