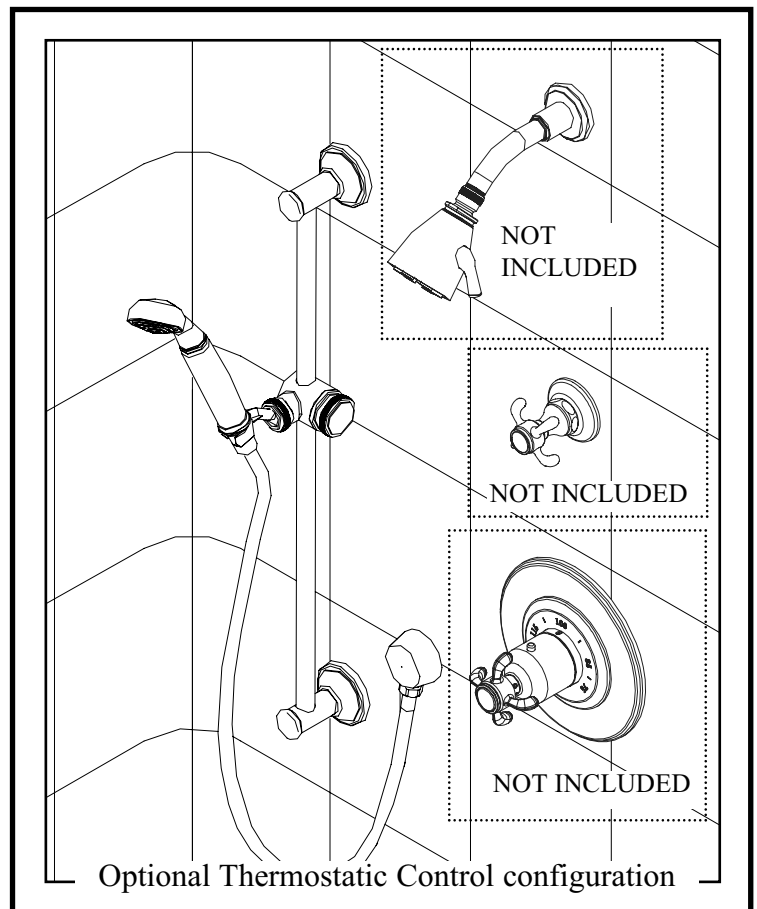
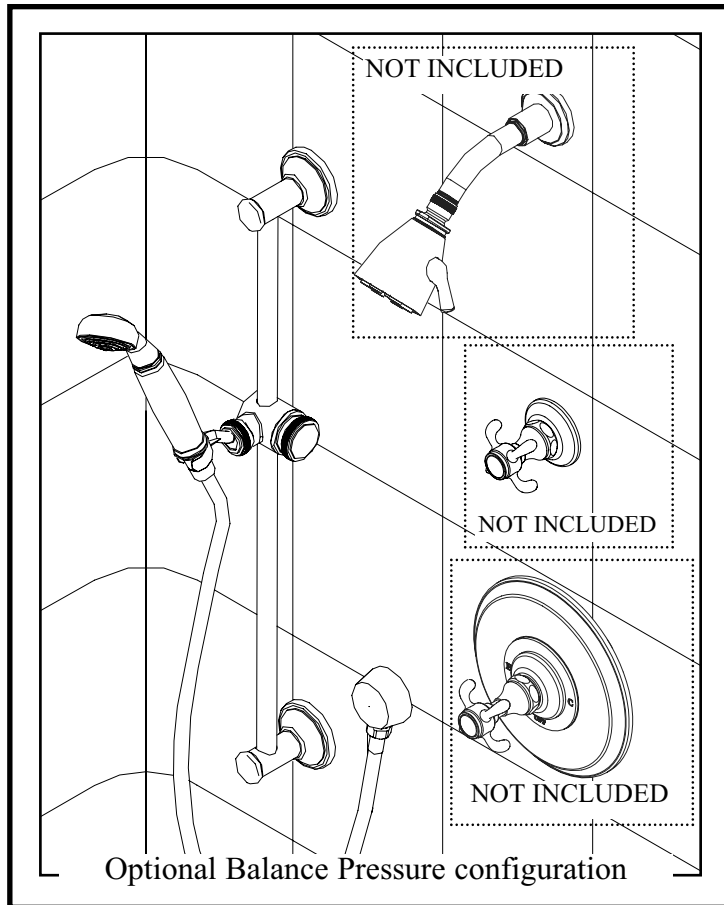




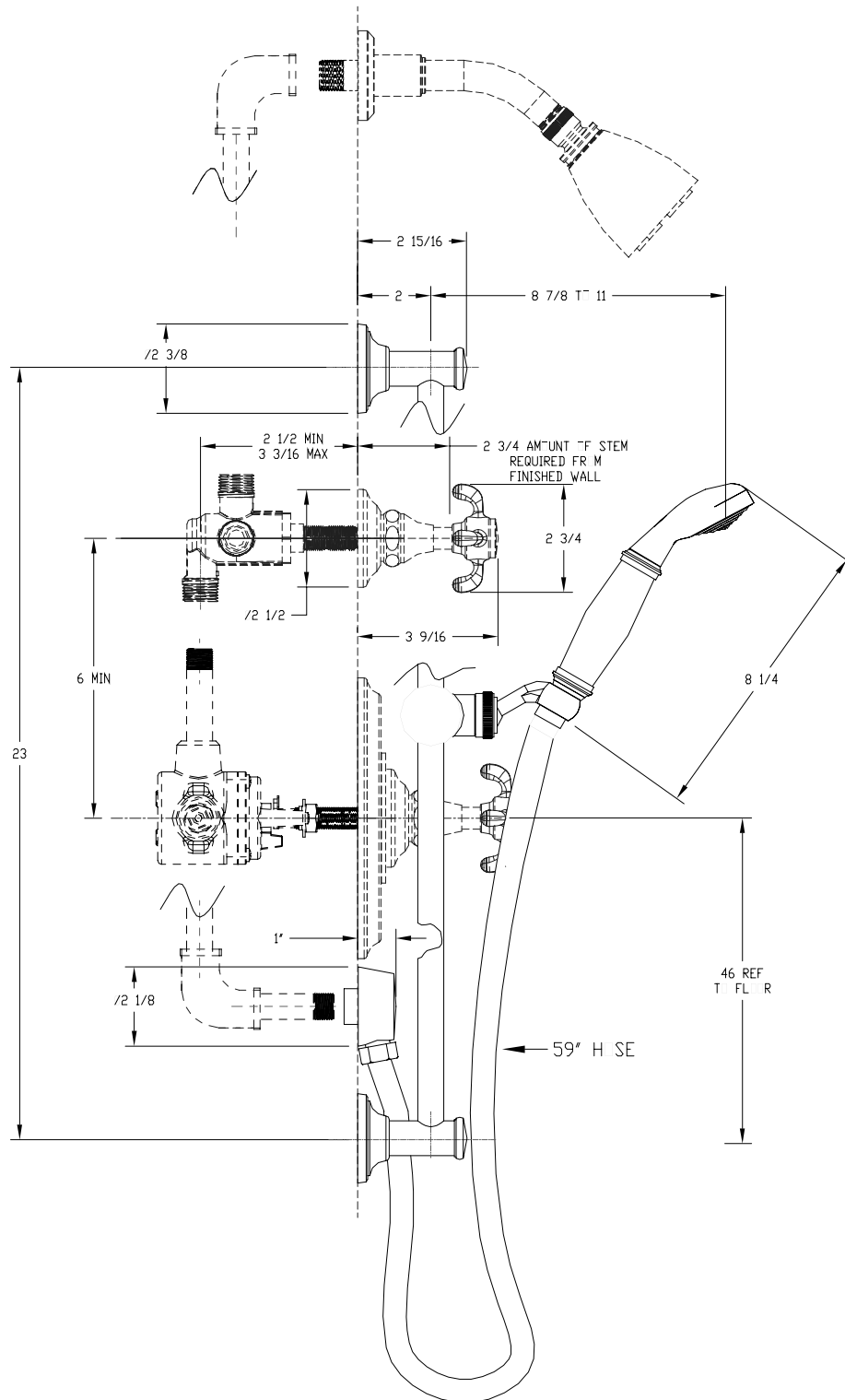
# INSTALLATION INSTRUCTIONS



MODEL: BISTRO  
HAND SHOWER KIT  
(RH-5342)

# Restoration Hardware

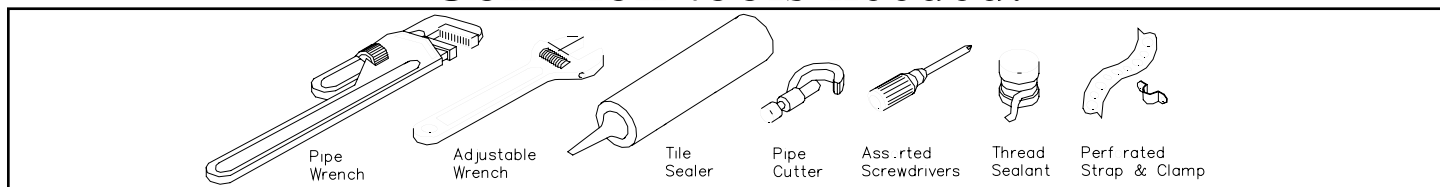
## Hand Shower Kit (Balance Pressure configuration shown) Specification Diagram



All Threaded Connections are 1/2" NPT

Dimensions are in Inches and Approximation of a Typical Installation

# Common tools needed:

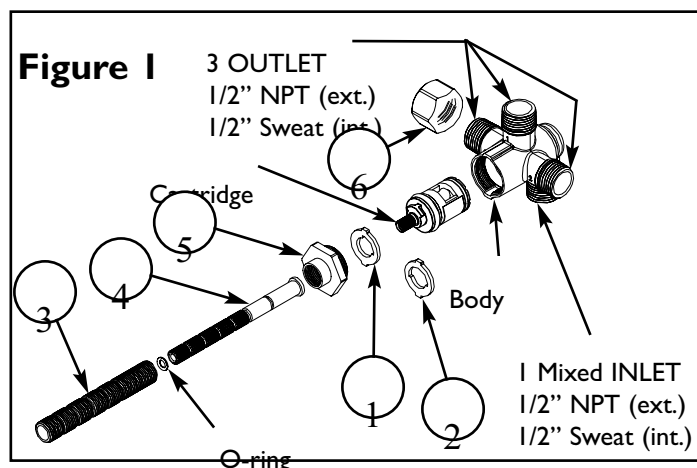


## Installation Instructions

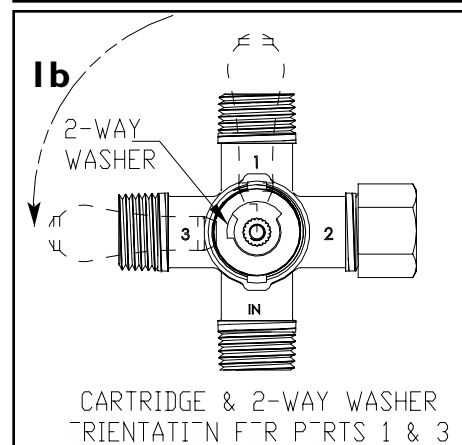
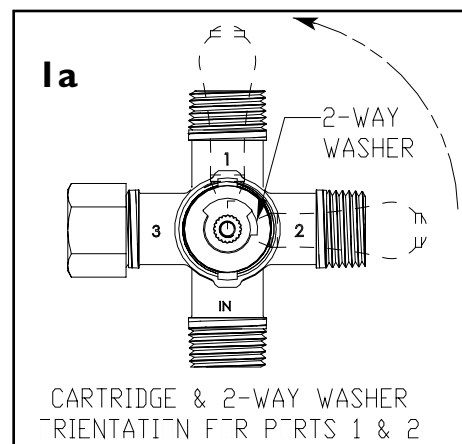
We recommended Installation by a Licensed Plumbing Professional

### 1. Valve Prep and Installation (not included but required)

- Diverter valve supplied in 3-way mode, (designed for 3 end devices). 2-way WASHER (1) supplied separately and must be used in place of the 3-way WASHER (2) for this application. Additional output device can be added, in this case, the 3-way WASHER (2) is required.

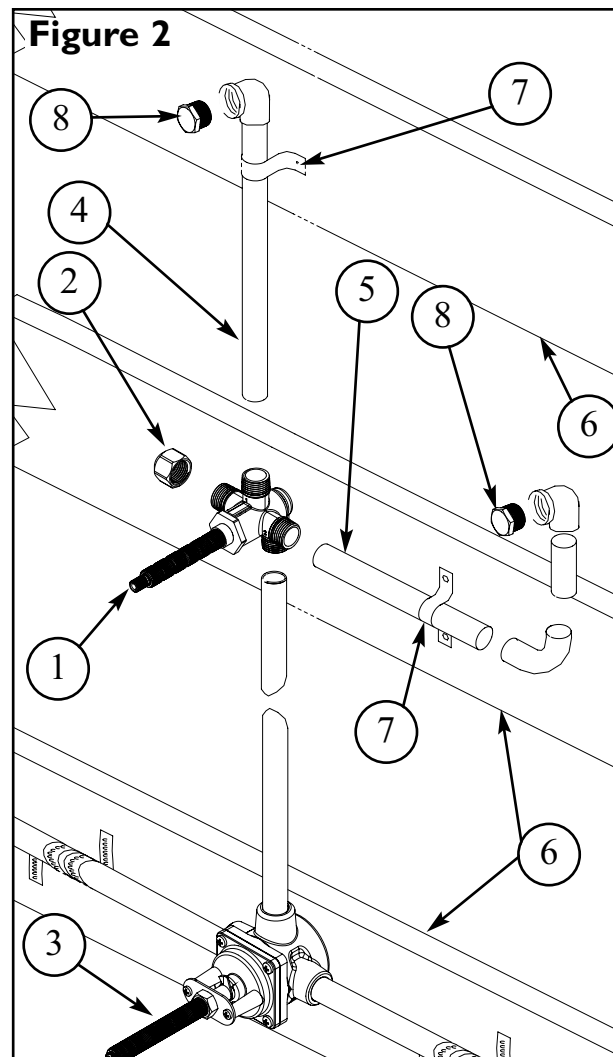


- To change valve to 2-way mode, remove NIPPLE (3), STEM (4) and Diverter NUT (5). See **Figure 1**.  
Replace the 3-way WASHER (2) with the 2-way WASHER (1) and orientation for your application, per **Diagram 1a** or **1b**. **Note:** The unused “OUT” port CAN NOT be used as shut off.
- Re-assemble Diverter NUT (5), STEM (4) and NIPPLE (3).
- Apply thread sealant to the 1/2 NPT CAP (6) and thread onto the unused “OUT” port 2 or 3.
- Diverter valve is used with a mixed (hot & cold) input, (i.e. Balance Pressure or Thermo Valve). Position valve with the port marked “IN” in the down position. (Connect mixed supply to “IN” port only.) See **Figure 2**.
- Apply thread sealant to supply from shower mixing VALVE (3). Firmly tighten into diverter valve lower port marked “IN”. No soldering should be performed within 4” minimum of valve ports. Whenever possible it is best to perform all soldering/brazing operations on piping prior to attachment to valve.
- Apply thread sealant to SHOWER RISER (4) and attach to valve port marked “1”.
- Apply thread sealant to HAND SHOWER SUPPLY (5) and attach to valve open port, “2” or “3”.



continued.

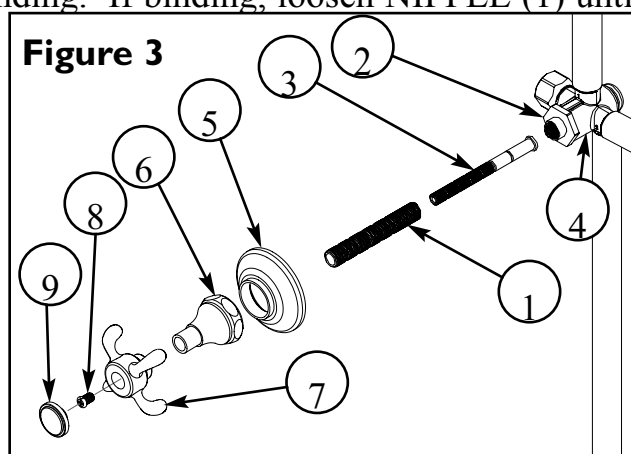
- VALVE (1) and SUPPLY/OUTPUT (4, & 5) must be secured to a CROSS BRACE (6) using PERFORATED STRAP (7) or equivalent.
- Position VALVE (1) from finished wall as mentioned on specification diagram.
- Attach various plumbing fittings in appropriate locations to SHOWERHEAD SUPPLY (4) and HAND SHOWER SUPPLY (5).
- Secure temporary PLUGS (8), (not supplied), into output fittings.
- Turn on both water supplies to valve and check for leaks. **Note:** Water pressure must be applied to both hot and cold inlet ports of mixing VALVE (3) for proper operation.
- Rotate VALVE (1) stem to both rotational extremes to check for leaks at VALVE (1) and SUPPLY OUTPUT (4, & 5).
- After inspection turn off water supply.



## 2. Valve Trim Installation

### (Not included)

- (Perform these steps after finished wall has been completed). See **Figure 3**.
- The STEM (3) must be trimmed to 2-3/4" from finished wall. Remove STEM (3) by loosening NUT (2) and removing NIPPLE (1), NUT (2), and STEM (3). Trim stem to previously mentioned length.
- The NIPPLE (1) must be trimmed to 1-3/8" from finished wall or 1 3/8" less than STEM (3).
- Fasten STEM (3) and NIPPLE (1) onto VALVE (4). Use NUT (2) to lock NIPPLE (1) into place. Rotate stem to ensure STEM (3) is not binding. If binding, loosen NIPPLE (1) until STEM (3) moves freely and does not wobble.
- Place ESCUTCHEON (5) and BONNET (6) onto NIPPLE (1) and firmly tighten BONNET (6) in place to secure trim onto VALVE (4).
- Secure HANDLE (7) into place with SCREW (8) provided.
- Press END CAP (9) onto the end of HANDLE (7).



### 3. Installation of Slide Bar Assembly

- Locate the desired position of slide bar on finished wall. **See Figure 1.**
- Mark wall and drill 5/16" hole for WALL ANCHORS (1) to dimension shown in **Figure 1.**
- Place SLIDE BAR (2) into END POST (3). Note: Large diameter hole in SLIDE BAR (2) must face out as shown in **Figure 2.**
- Place POST (3) onto ESCUTCHEON (4), insert SCREW (5) and securely tighten into ANCHOR (1) as shown in **Figure 2.**
- Press END CAP (6) into end of POST (3).
- Slide and lock HOLDER ASSEMBLY (7) onto SLIDE BAR (2) and repeat the above steps to the other end of SLIDE BAR (2) as shown in **Figure 3.**

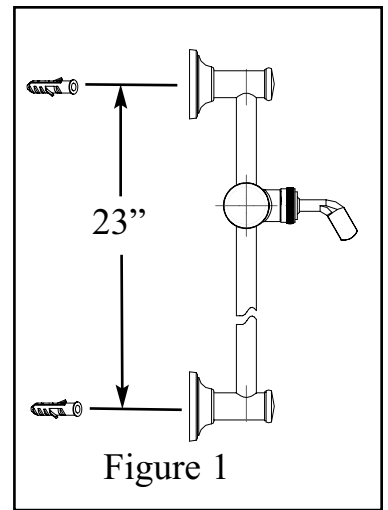


Figure 2

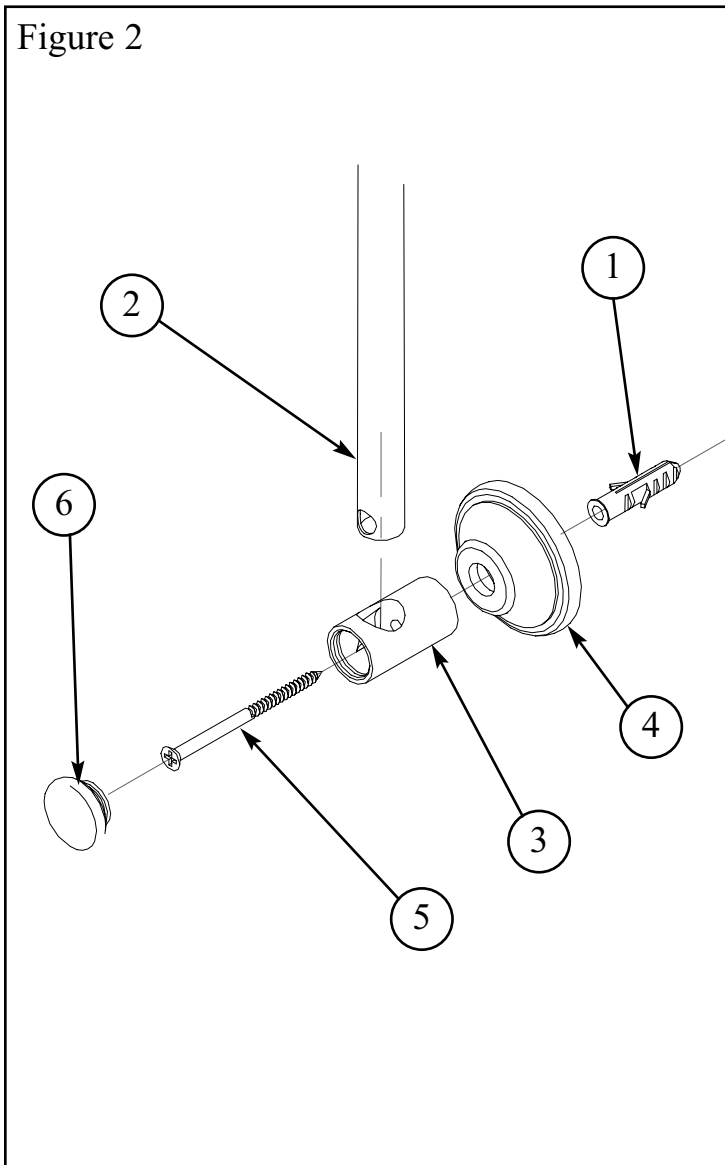
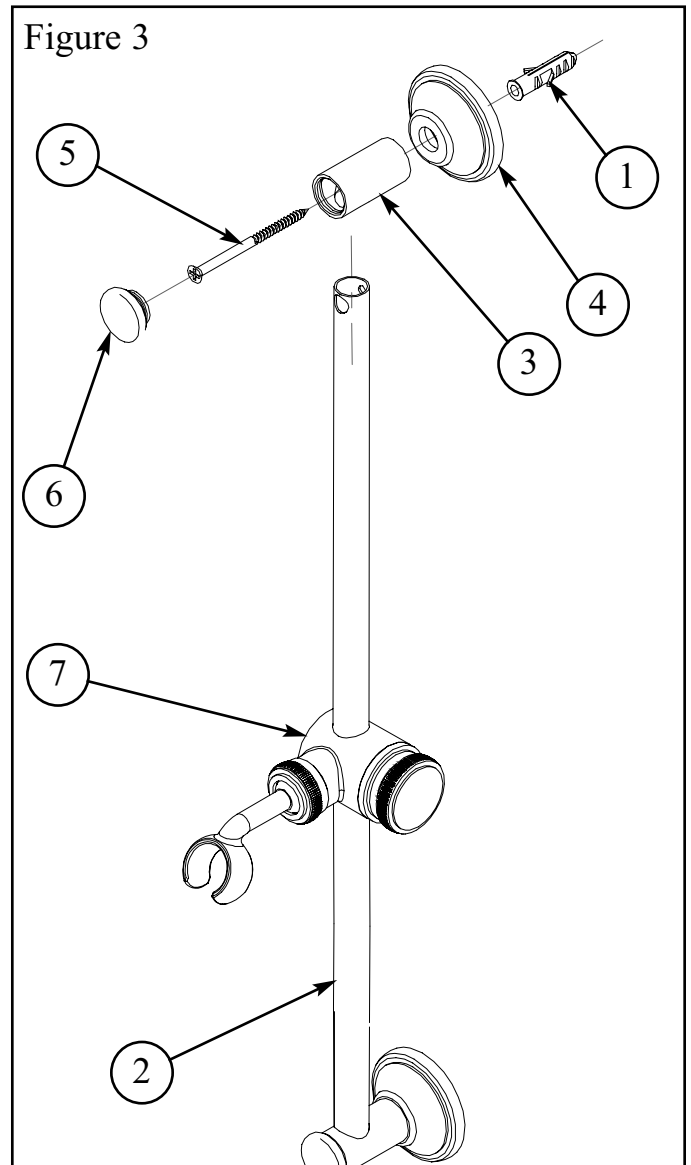
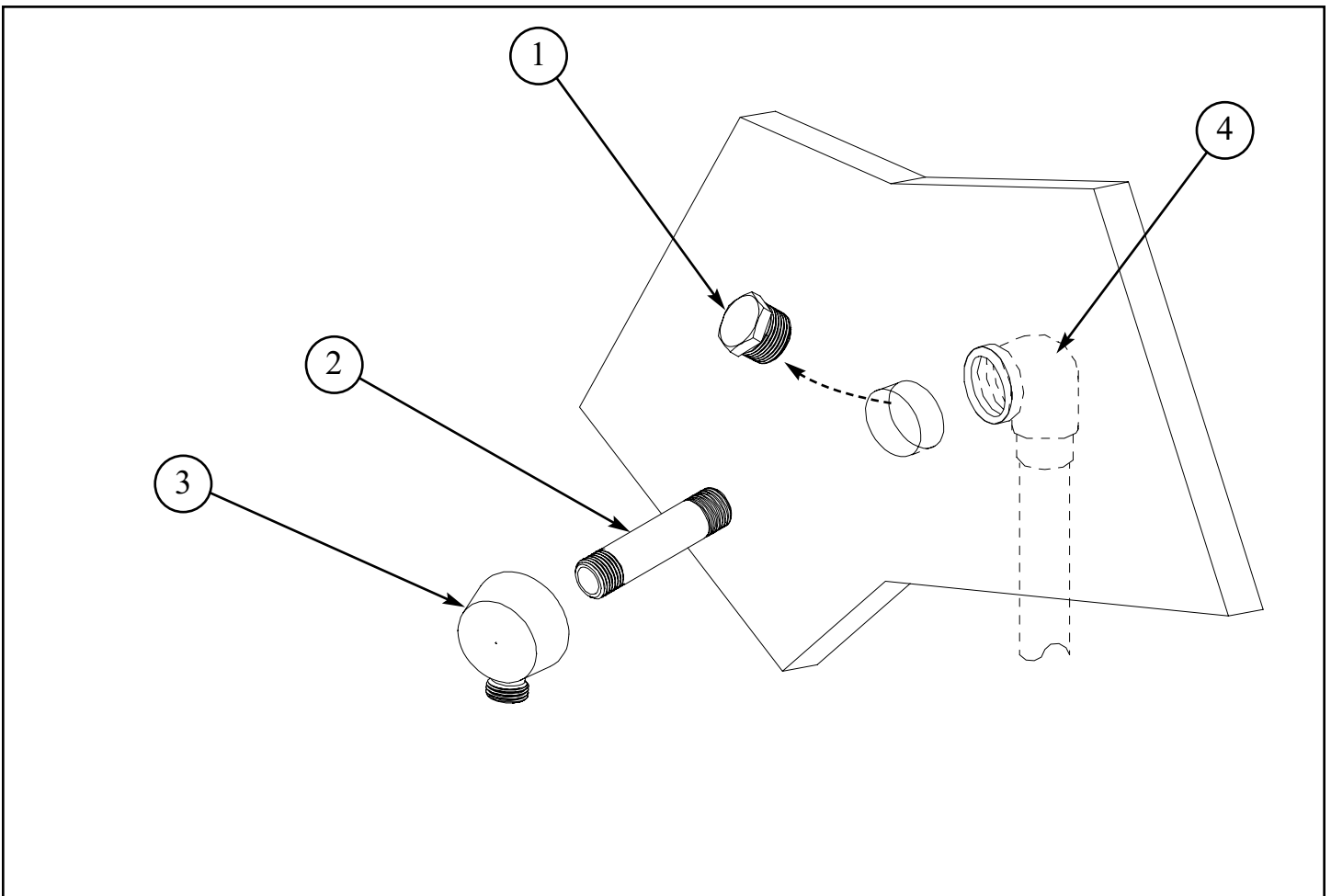


Figure 3



## 4. Supply Elbow Installation

- Where applicable, remove TEMPORARY PLUG (1) from fitting in wall.
- Apply thread sealant to both ends of appropriate length NIPPLE (2), (not supplied).
- Tighten NIPPLE (2) onto SUPPLY FITTING (4).
- Tighten SUPPLY ELBOW (3) onto NIPPLE (2).

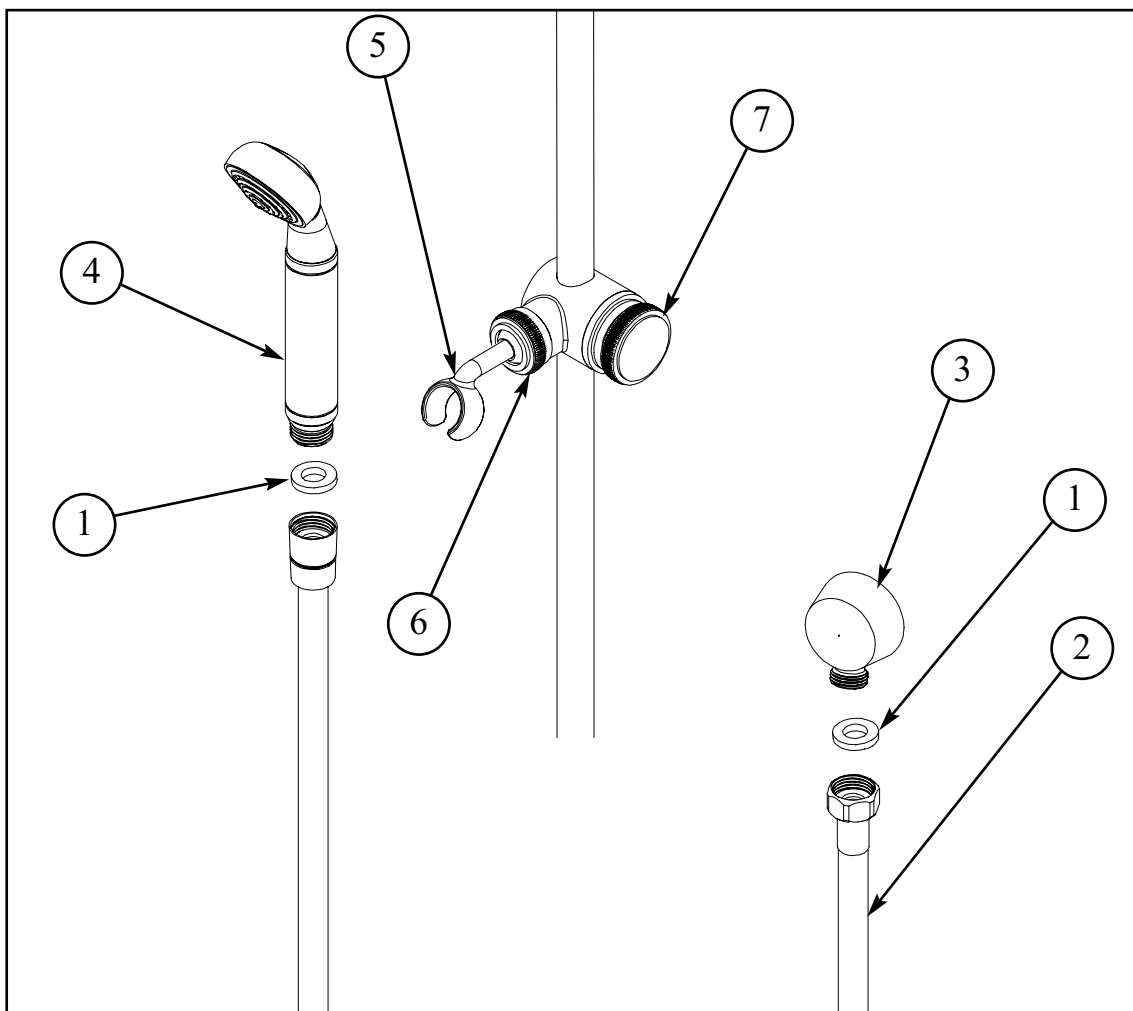


## 5. Hand Shower & Hose Installation

- Place RUBBER WASHER (1) into both ends of HOSE (2).
- Attach the hex end of HOSE (2) onto SUPPLY ELBOW (3).
- Attach HAND SHOWER (4) onto conical end of HOSE (2).
- Place HAND SHOWER (4) into SLIDE BAR HOLDER (5).

## 6. Adjusting Hand Shower on Slide Bar

- Loosen or tighten COLLAR NUT (6) to allow HOLDER (5) movement to desired position.
- Loosen CAP HANDLE (7) and move HOLDER (5) to desired vertical location. Retighten CAP HANDLE (7) to keep HOLDER (5) in place.



## Care and Cleaning

The lustrous finish on your Restoration Hardware Bathware fixture should be treated with care. Improper handling or cleaning can damage the surface of any metal finish. Use a soft cloth to wipe clean. Avoid harsh abrasive cleaners. Water contains lime and other mineral deposits that will be left on the surface after the water has evaporated. You can prevent these deposits from forming by always wiping the fixture dry immediately after use.

## Technical Support and Customer Service

For technical support in the installation of your Restoration Hardware Bathware fixture, please call 1-866-417-5207 weekdays between the hours of 7:00am and 4:00pm PST.

For other questions regarding your order, to order additional components of the Restoration Hardware Bathware Collection, to order replacement parts, or to address warranty issues, please contact Restoration Hardware Customer Service at 1-877-747-4671.



# 3/4" STOP VALVE / VOLUME CONTROL

## Installation Instructions

Model No. RH-5345



### Recommended Installation by a Professional Plumbing Contractor

**Note:** Use Teflon tape or equivalent to seal all threaded port joints.

**Warning:** To prevent severe damage to valve, any solder/braze process must be performed a min. of 4" from ports.

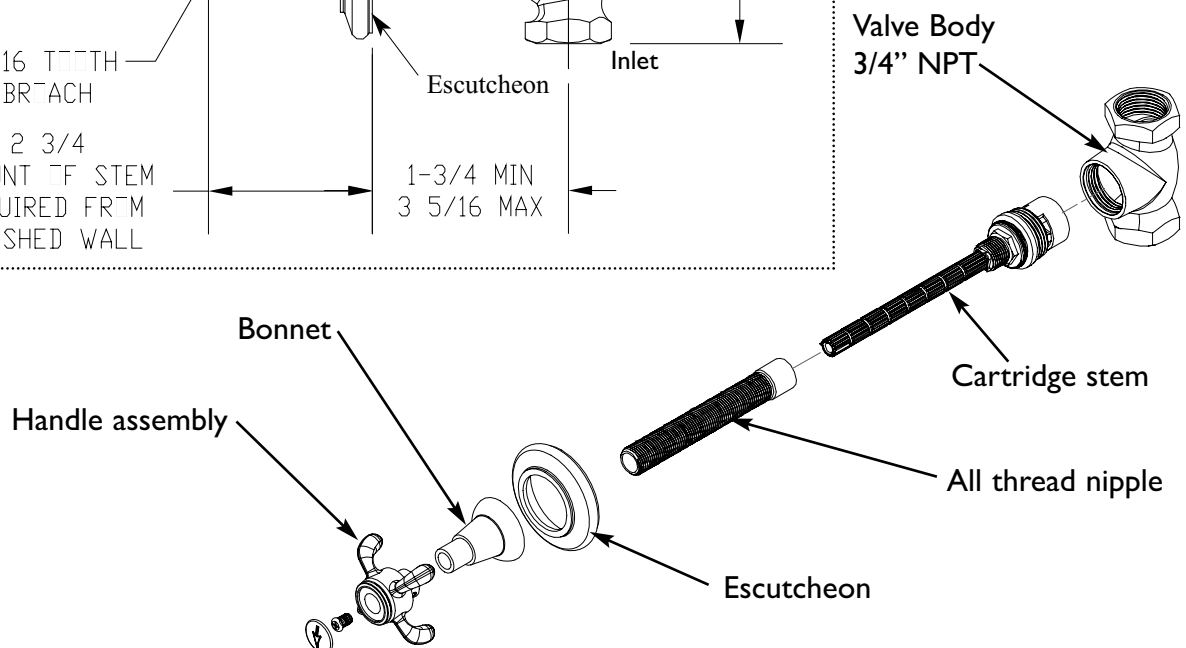
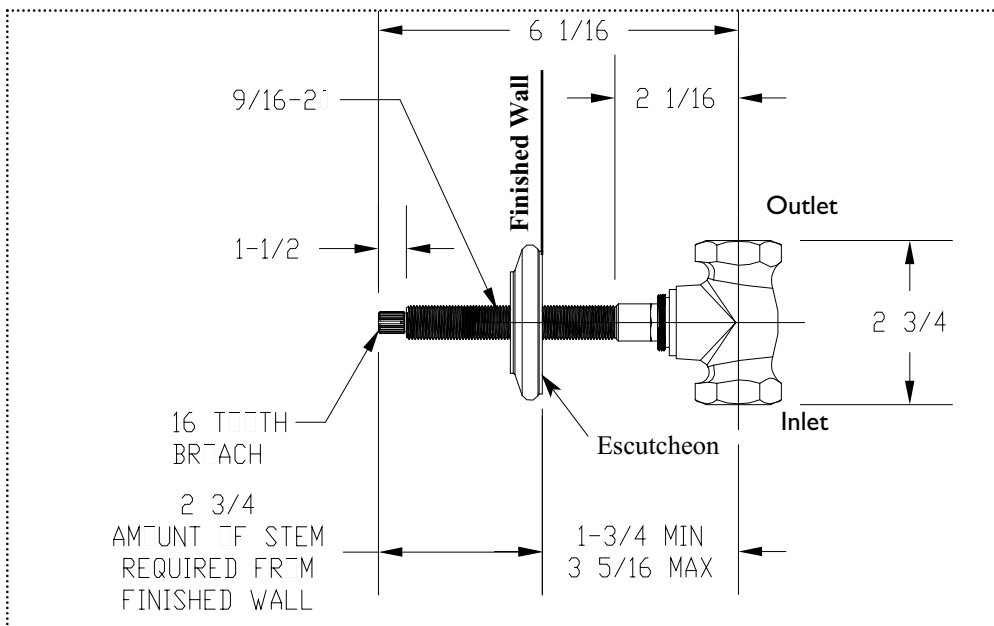
These valves may be used as stop & volume controlling valves between water source and end output device. Typical usage is between thermo valve and multiple output devices (e.g. Showerhead, body sprays, handshowers, etc...).

### Installing valve

- Attach supply source to inlet of valve. Water flow direction is indicated by "ARROW" on side of body.
- Attach end device to outlet of valve.
- Position valve in wall as shown below. These dimensions are for typical installations. If thick finished wall materials are to be used in construction, it is recommended that valve is positioned toward outer face of stud.
- Support valve and/or piping to stud framing using strap tape or equivalent.
- Turn on water supply and inspect for leaks.

### Installing Trim

- (Perform these steps after finished wall has been completed)
- The stem must be trimmed to 2-3/4" from finished wall.
- The nipple must be trimmed 1-1/2" shorter than stem.
- Place escutcheon, bonnet and handle over nipple and secure handle onto valve with screw. Adjustments for rotational alignment can be made by changing the position of stem on cartridge.
- Remove adhesive tab from cap, align and press onto top of handle.



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