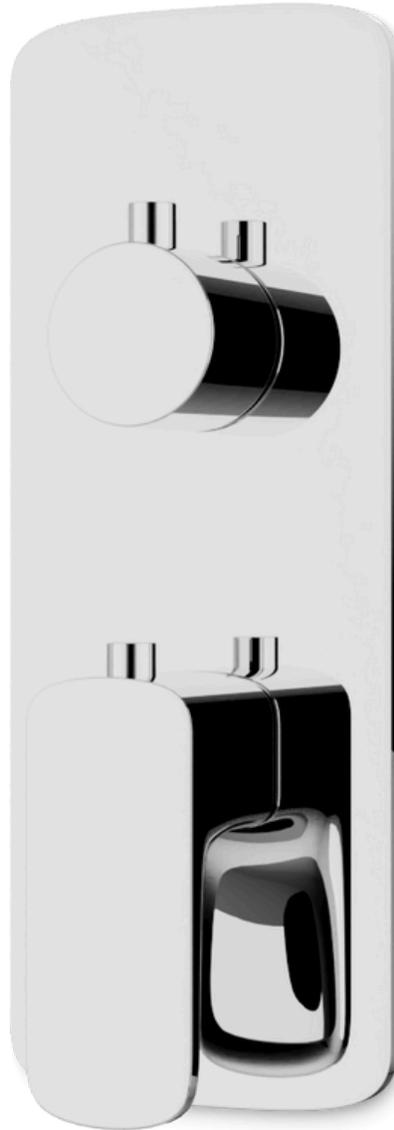


F903B-64TK

Harmony Thermostat with 3-Way Diverter & Off
Position Trim Kit

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INSTALLATION GUIDE



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OPERATING SPECIFICATIONS



OPERATING TEMPERATURE

Maximum: 176°

Minimum: 50°

Minimum difference between hot mixed temperature 50°

OPERATING PRESSURE

Minimum: 20psi

Maximum: 125psi

Recommended: 30psi-95psi

Operating pressures (on hot and cold lines) should be kept as balanced as possible, in order to assure the maximum efficiency

MATERIAL

Solid Brass

REQUIREMENTS

Control Valve

FEATURES

Temperature Limiting Bypass

STANDARDS

To view all standards, please visit product approvals in our learning hub at artos.us.com

All technical specifications, product details, and pricing are subject to change without prior notice. Artos makes every effort to ensure accuracy; however, errors or omissions may occur. It is the responsibility of the installer, designer, or purchaser to verify all critical dimensions, installation requirements, and compliance with applicable codes prior to use.

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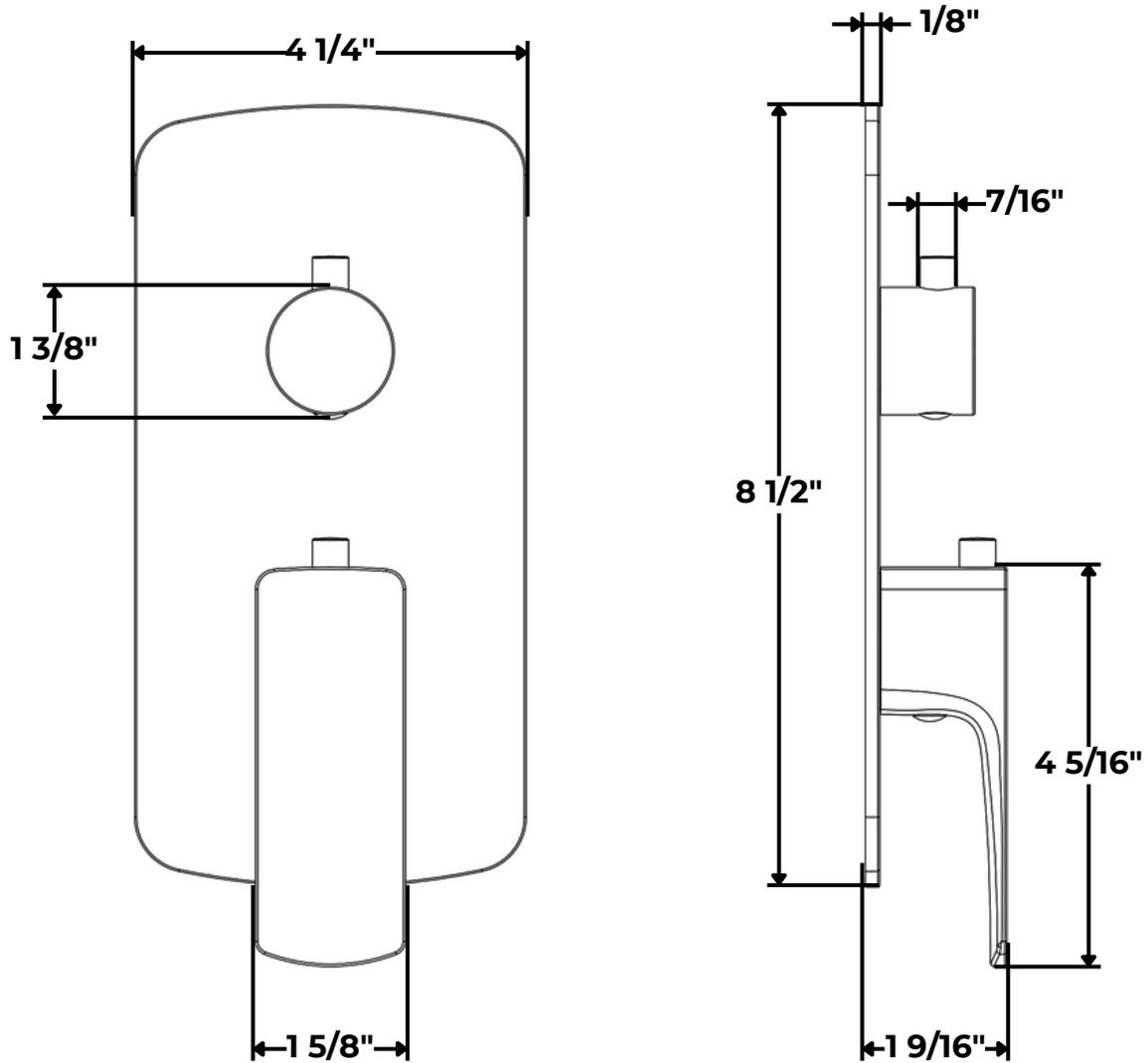
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PRODUCT DIMENSIONS

PRODUCT SKU: F903B-64TK



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Harmony Thermostat with 3-Way Diverter & Off Position Trim Kit

VALVE IDENTIFICATION



F973AVO: 3/4" Thermostat Valve with 3-Way Shared Diverter & Off Position



F973ANSVO: 3/4" Thermostat Valve with 3-Way Non-Shared Diverter & Off Position

The difference between the two valves lies in the operation of the shared diverter. The **F973AVO** cartridge allows water to flow to multiple outlets simultaneously. In contrast, the **F973ANSVO** cartridge restricts flow to a single outlet at a time, improving water efficiency and supporting compliance with California requirements.

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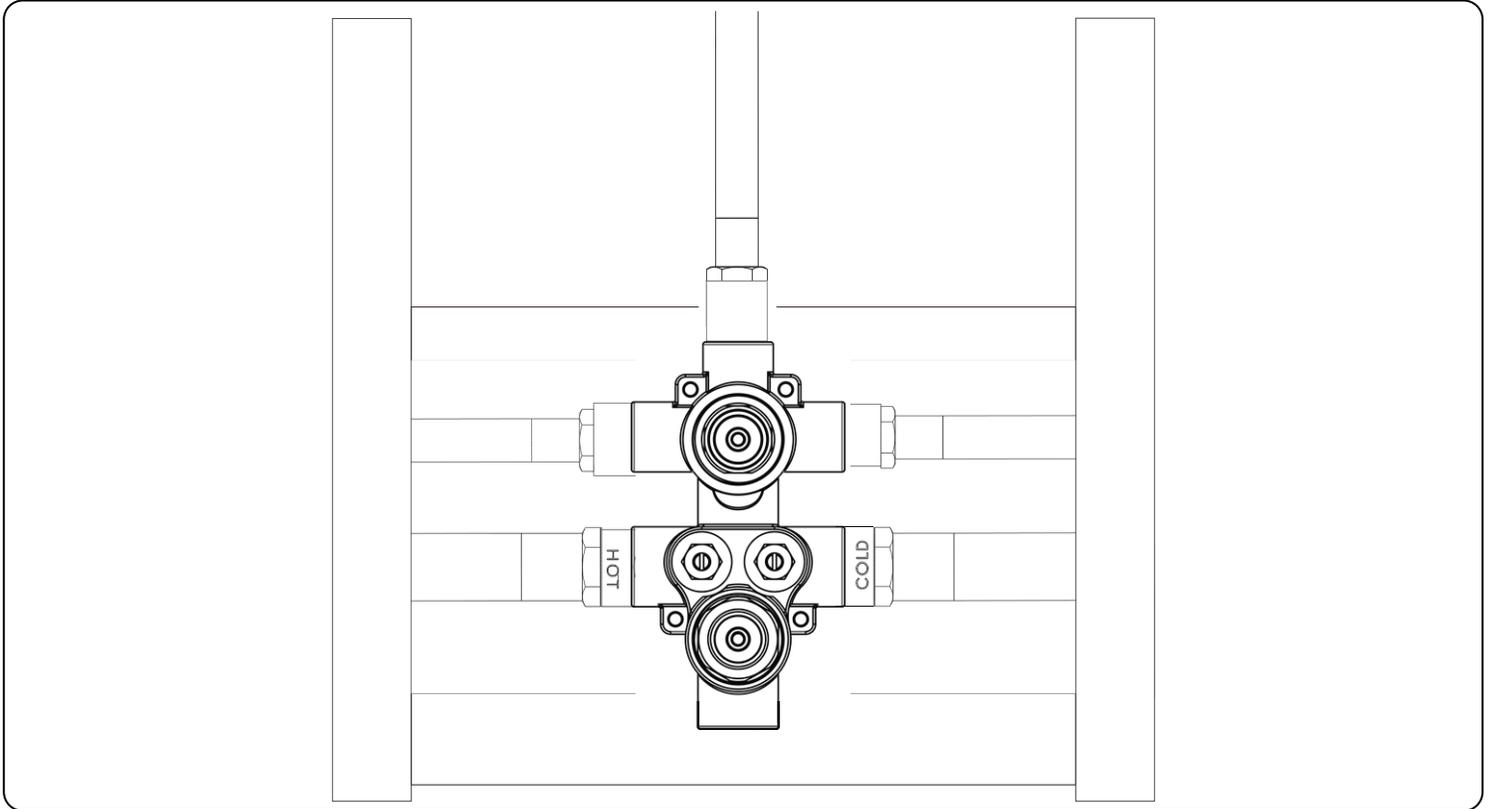
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INSTALLATION GUIDE

FOR F973AVO OR F973ANSVO



STEP 1



Safety Warnings

- Shut off the main or local water supply before beginning installation.
- Use caution when handling sharp tools and metal parts.
- Do not overtighten connections, as this may damage components or create leaks.
- Ensure the psi of the local water supply remains in the recommended psi range on the operating specifications page
- Wear protective gloves throughout installation to prevent injury and protect the finish of the components.

Before beginning, verify that all parts and tools required for installation are available. Review the installation diagram in the parts breakdown at the end of this manual.

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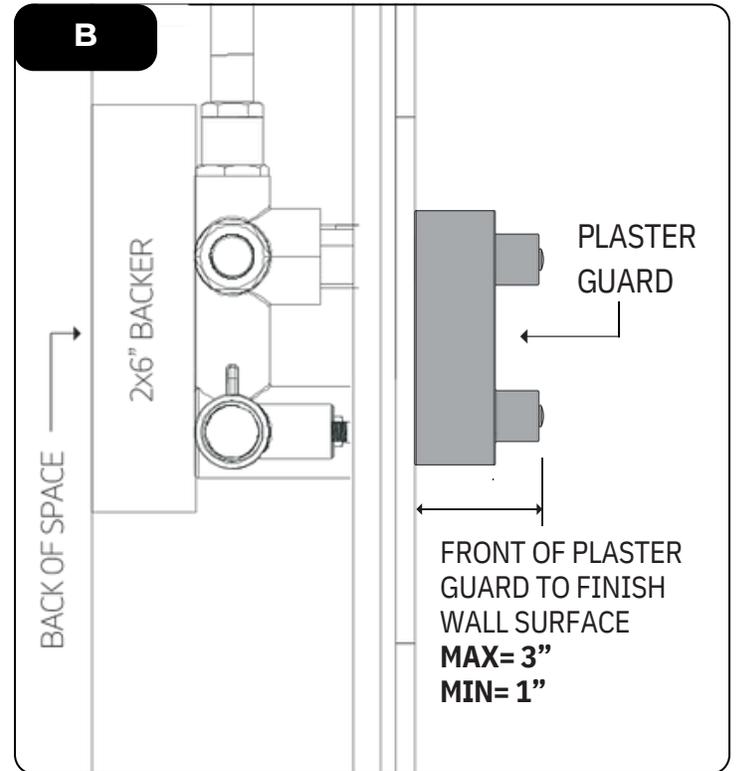
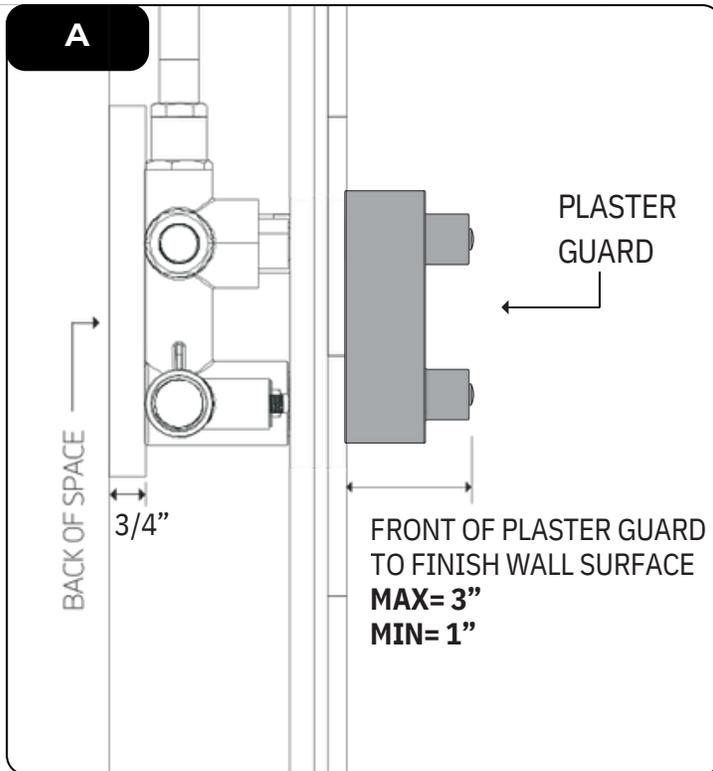
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INSTALLATION GUIDE

FOR F973AVO OR F973ANSVO



STEP 3



Begin installation of the F973AVO or F973ANSVO by installing a solid backer board between the wall studs to support the valve. For **2" x 4"** wall construction, use a **3/4"** plywood backer. For **2" x 6"** wall construction, use a **2" x 6"** backer.

Position the valve against the backer, ensuring it is **level** and properly aligned. Secure the valve using drywall or deck screws through the mounting holes provided in the valve body. Refer to Diagram **A** for **2" x 4"** wall installations and Diagram **B** for **2" x 6"** wall installations.

The front of the plaster guard must be positioned between **1" minimum** and **3" maximum** from the finished wall surface for both wall types.

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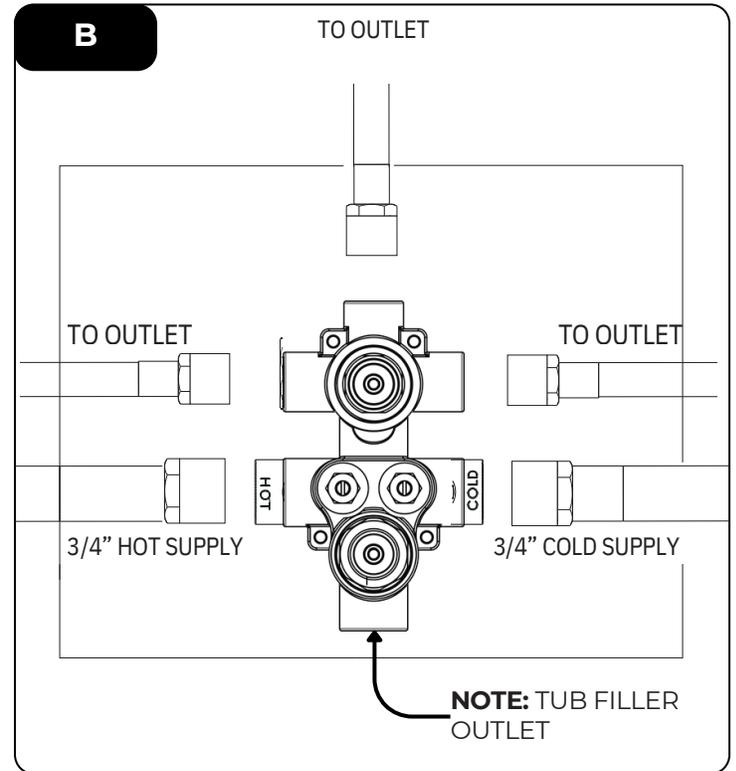
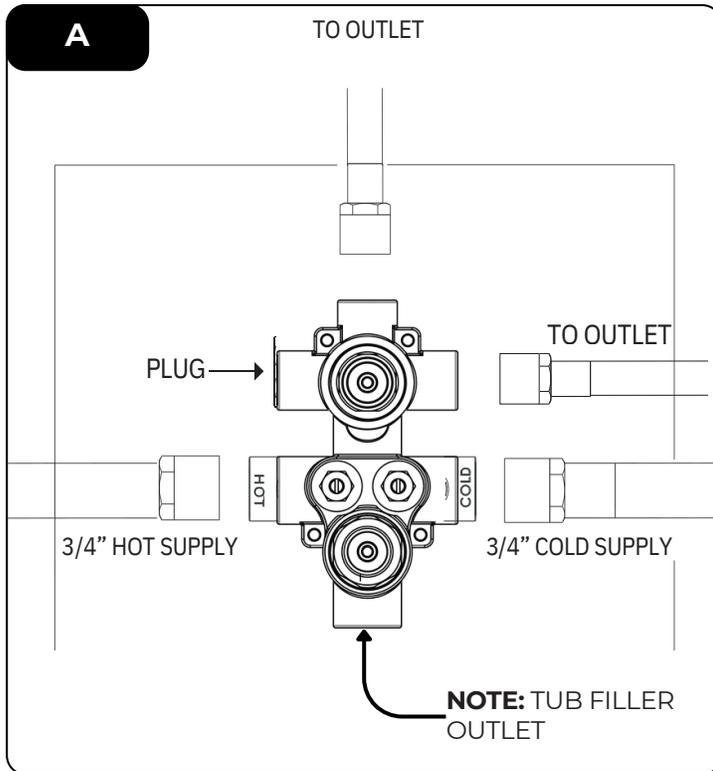
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Harmony Thermostat with 3-Way Diverter & Off Position Trim Kit

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STEP 2

FOR F973AVO OR F973ANSVO



OPTION A

If using two 1/2" outlets, connect the valve as shown in Diagram A. Cap the unused upper side outlet. Connect the active upper outlet(s) to the shower functions as required. Connect the 3/4" hot water supply to the left inlet and the 3/4" cold water supply to the right inlet.

If installing a tub filler, remove the cap from the bottom 3/4" outlet and connect the tub filler to this outlet.

OPTION B

If using all three upper outlets, connect the valve as shown in Diagram B. No upper outlet caps are required. Connect all upper outlets to the shower functions as specified.

If installing a tub filler, use the bottom 3/4" outlet for the tub filler connection.

IMPORTANT: IF USING HEAT NEAR THE VALVE BODY PLEASE REMOVE CARTRIDGES.

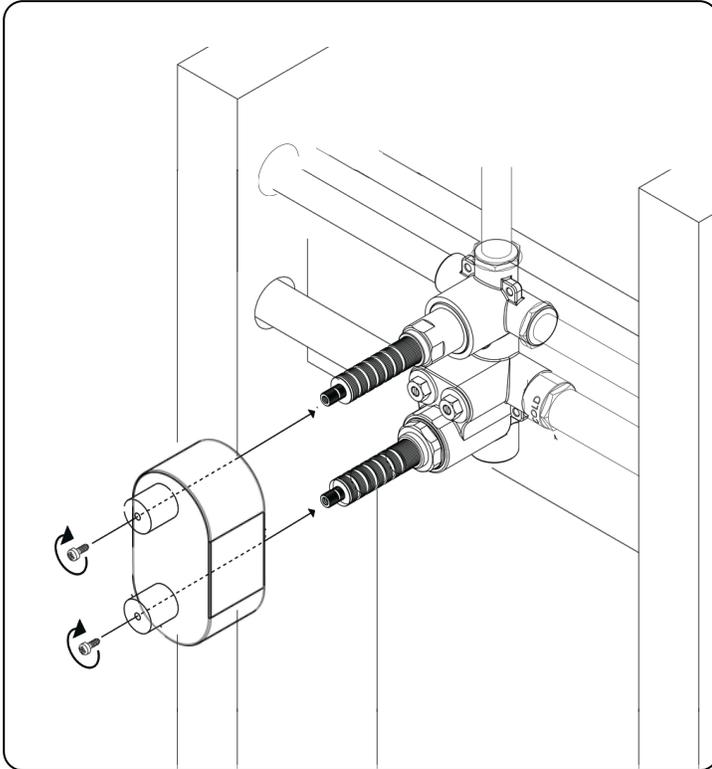
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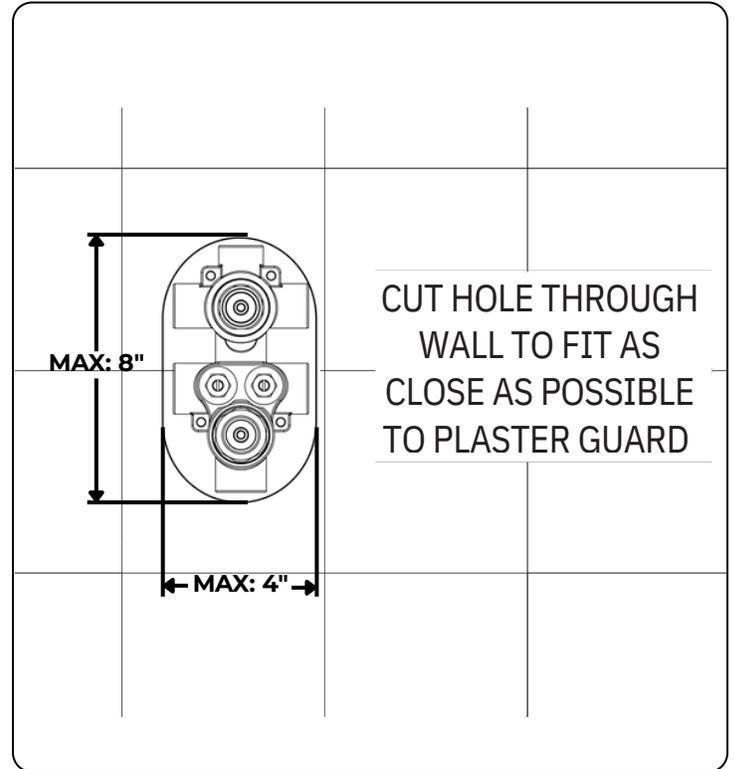
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STEP 4



STEP 5

FOR F973AVO OR F973ANSVO



STEP 4

Using the provided screws, secure the plaster cover to the valve spindles, ensuring it is properly aligned and fully seated.

STEP 5

Complete the finished wall, using the plaster guard to protect the valve threads during installation. Cut an access opening in the finished wall large enough to expose the valve for future adjustment of the service stops.

IMPORTANT: DO NOT LET THE HOLE EXCEED THE ESCUTCHEON DIMENSIONS. HOLD ESCUTCHEON TO WALL TO CHECK DIMENSIONS

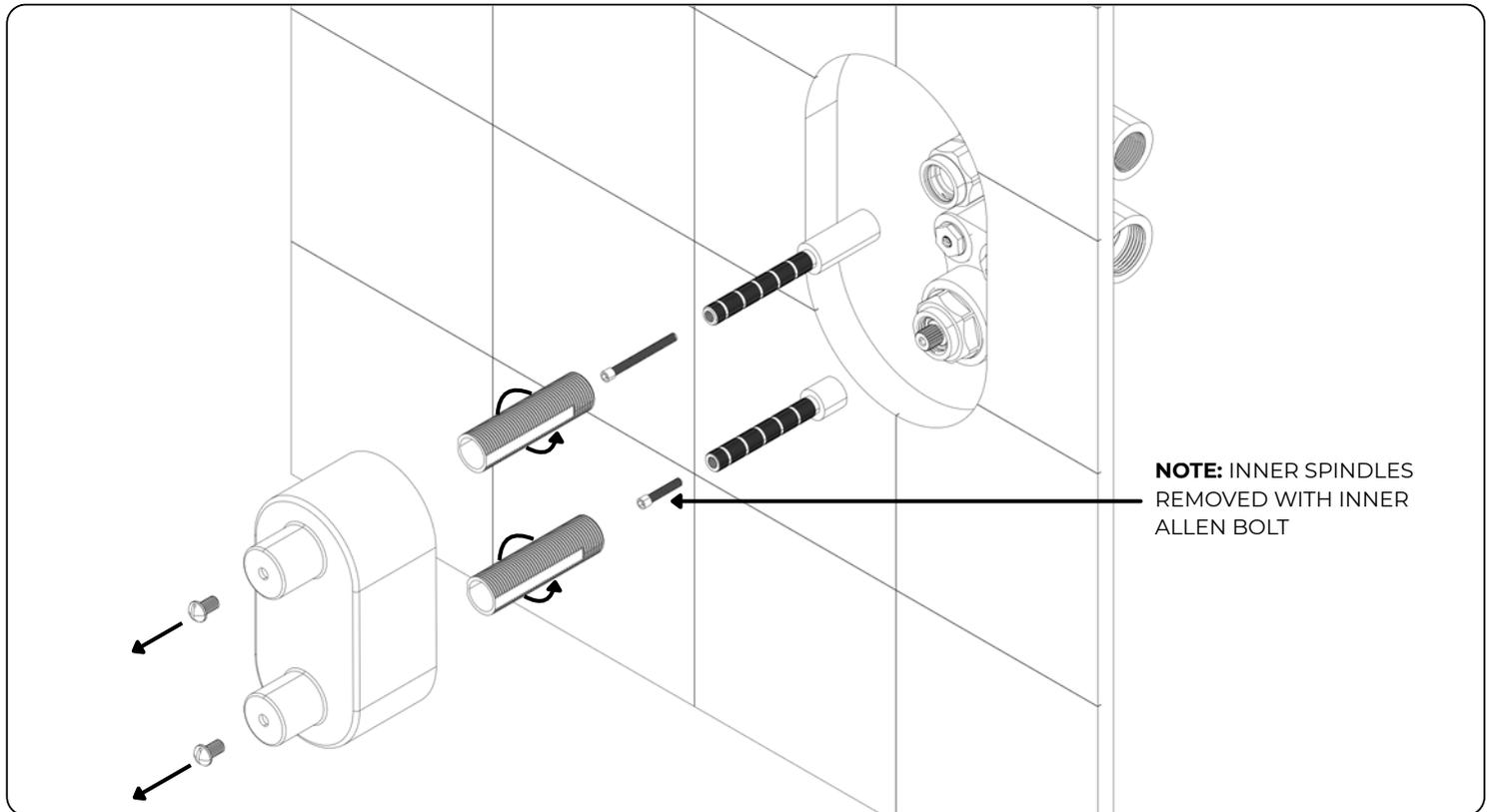
Dimensions may vary due to model version or escutcheon style

Check the individual valve installation manual for the most up-to-date procedures. For compatibility questions, contact Artos customer service at the information provided below.

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STEP 6



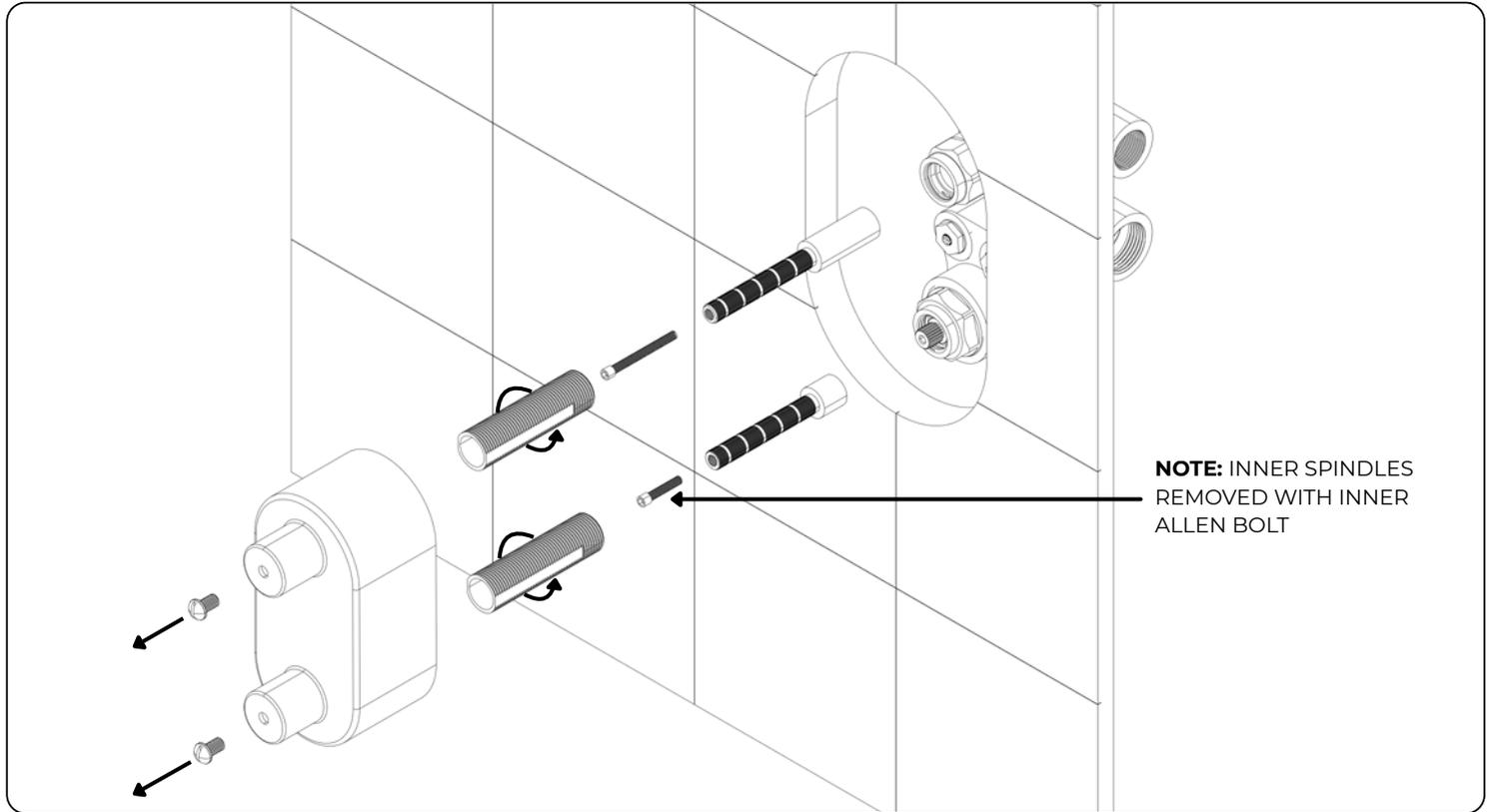
Begin installation of the trim kit once plaster and dust protection is no longer needed.

First, remove flathead bolts from the plaster guard using a flathead screwdriver. Next, remove the outer spindles to provide better access to the inner components. Using the included Allen wrench, carefully loosen and remove the retaining bolts from the inner spindles. Once the bolts are removed, inner spindles can be pulled from the respective valves and set aside.

Note: The longer screw and its corresponding spindle belong to the diverter valve (upper position), so be sure to keep these parts identified accordingly for reassembly.



STEP 7



Begin installation of the trim kit once plaster and dust protection is no longer needed.

First, remove flathead bolts from the plaster guard using a flathead screwdriver. Next, remove the outer spindles to provide better access to the inner components. Using the included Allen wrench, carefully loosen and remove the retaining bolts from the inner spindles. Once the bolts are removed, inner spindles can be pulled from the respective valves and set aside.

Note: The longer screw and its corresponding spindle belong to the diverter valve (upper position), so be sure to keep these parts identified accordingly for reassembly.

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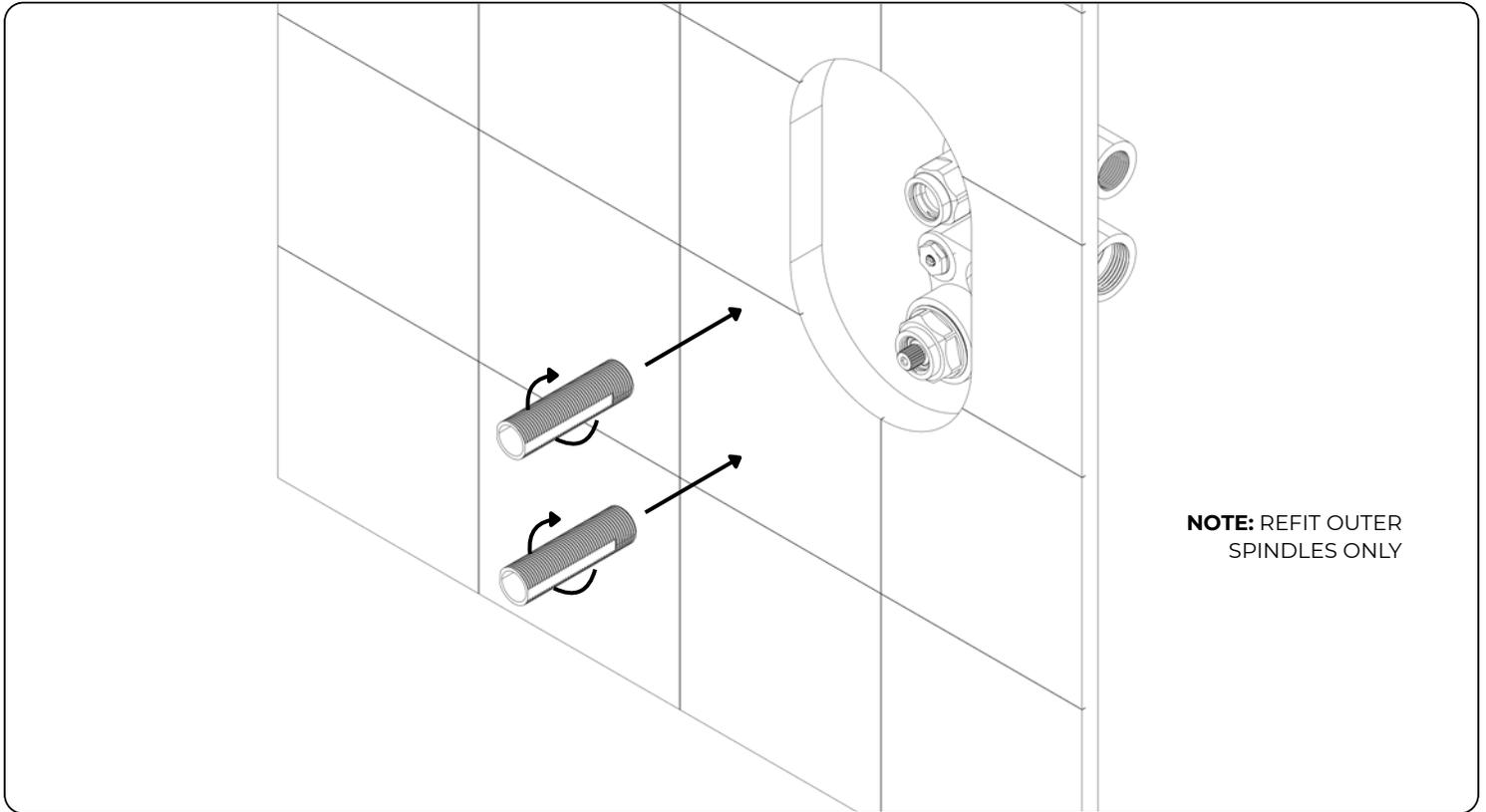
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INSTALLATION GUIDE

FOR F973AVO OR F973ANSVO



STEP 8



Once the internal components have been identified and removed, reinsert only the outer spindles into both the diverter and thermostatic valve bodies.

Note: Ensure that each spindle is fully seated and secured with a snug fit, as a proper connection at this stage is essential for accurate alignment and secure attachment of trim components in the following steps.

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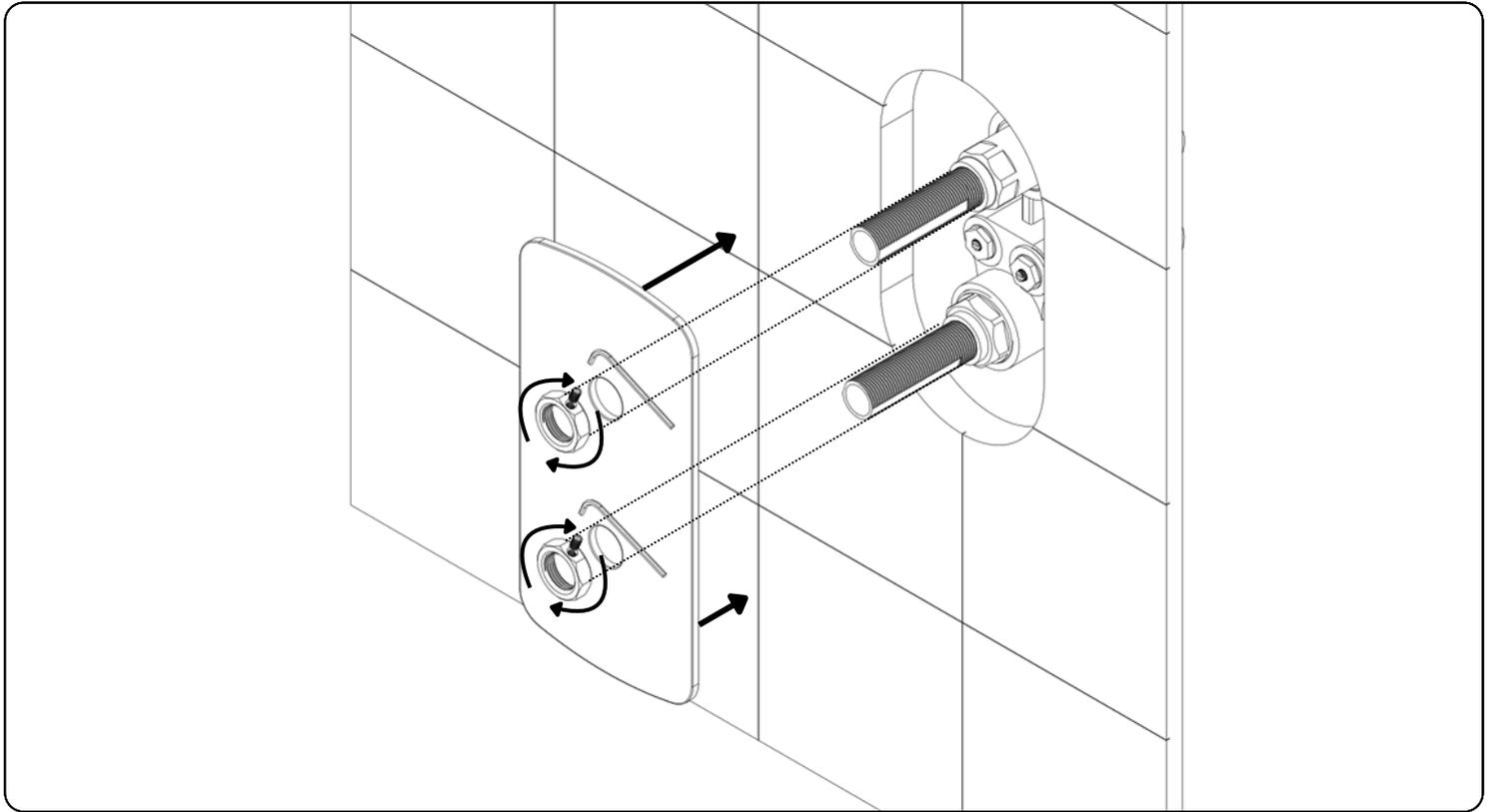
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INSTALLATION GUIDE

FOR F973AVO OR F973ANSVO



STEP 9



Secure the escutcheon trim over the installed spindles by tightening the locking nut set screw using the included Allen wrench.

Ensure the escutcheon is **firmly** pressed against the finished wall surface to create a flush, secure fit. A tight seal at this stage is critical—if the trim is not properly aligned and tightened against the wall, the final trim components may not sit correctly or align properly during the final assembly.

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Harmony Thermostat with 3-Way Diverter & Off Position Trim Kit

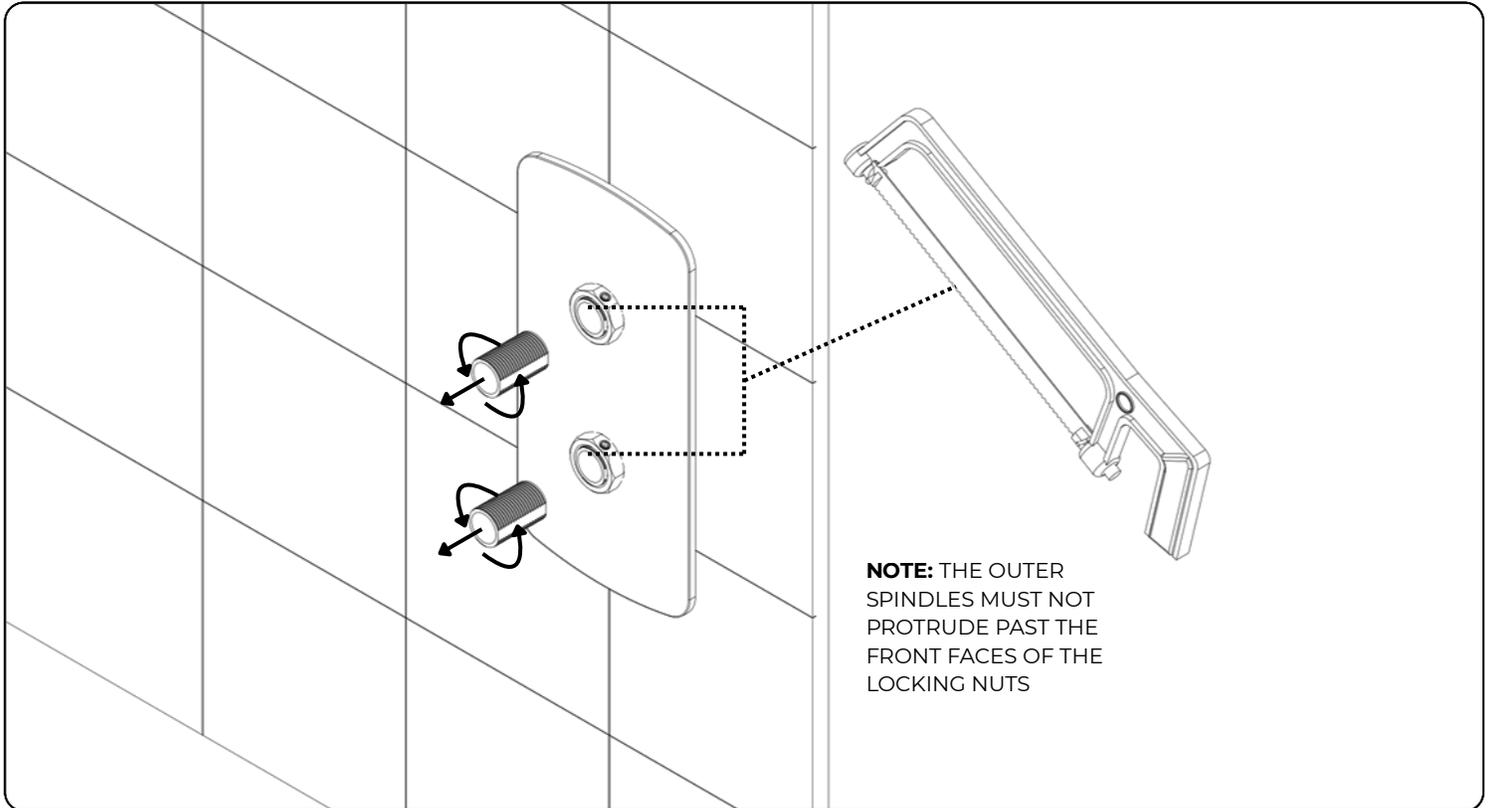
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STEP 10

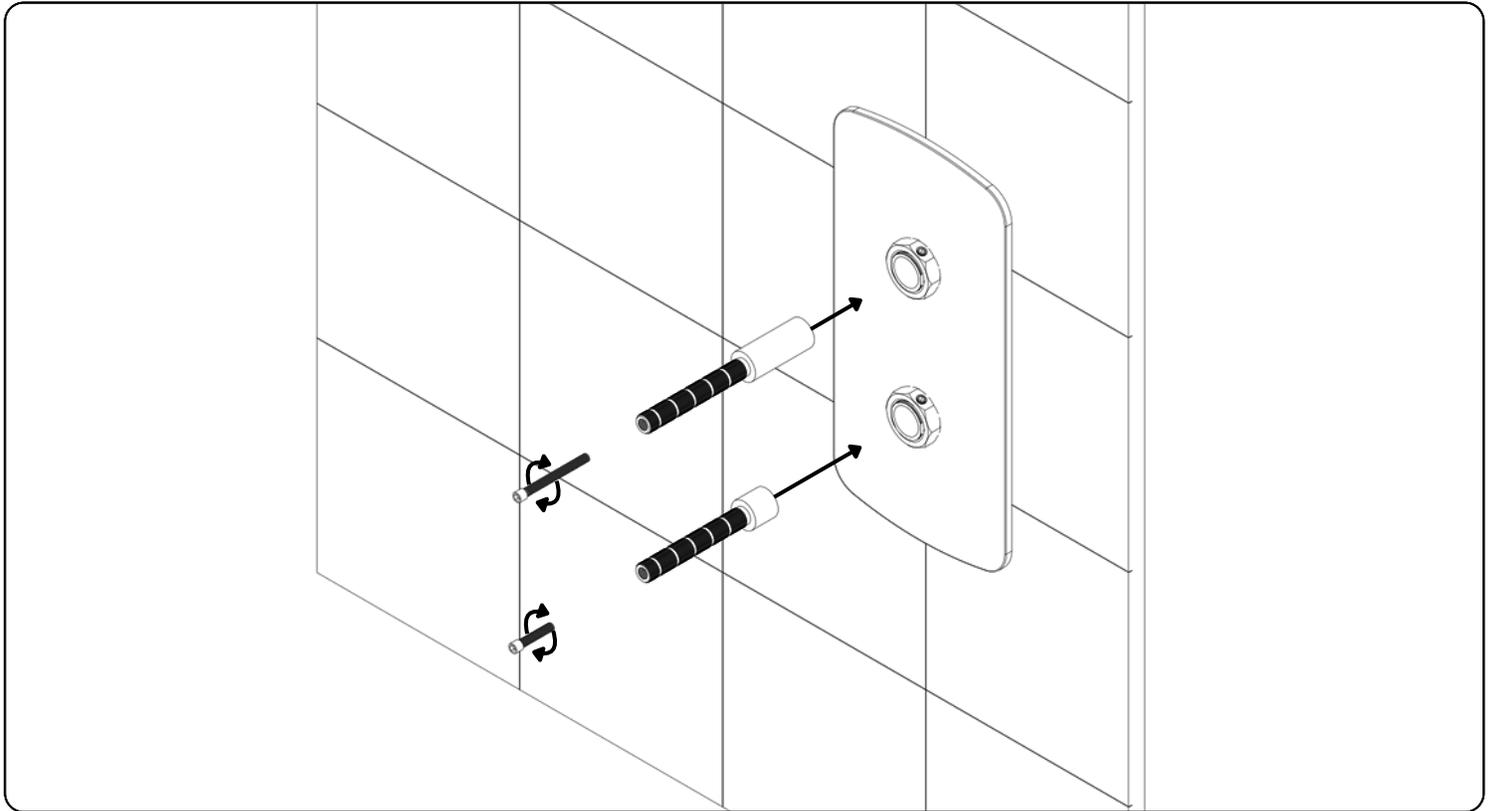


Using a marker or scribe, carefully mark the outer spindles at the point where they align flush with the face of the locking nuts. Once marked, **remove the outer spindles from the assembly and use a handsaw** to cut them down at the marks. Cutting the spindles off the assembly prevents accidental damage to the locking nut or surrounding trim components. Take your time to ensure clean, square cuts so that the final trim pieces sit flush and properly align with the finished surface.

NOTE: Do not damage the escutcheon with saw; remove spindles to cut the scribe line.



STEP 11



Fully insert both the upper and lower inner spindles into their respective diverter valves, ensuring each inner spindle is properly aligned and seated. Once in place, secure each using its corresponding Allen bolt, tightening the bolts clockwise with the included Allen wrench until firmly fastened.

Ensure all components are properly aligned and that the spindles move freely in preparation for the final handle installation.

NOTE: The long spindle, along with the long M4 x 40 mm securing bolt, is specifically intended for the upper diverter valve and must be used accordingly to ensure proper fit and function.

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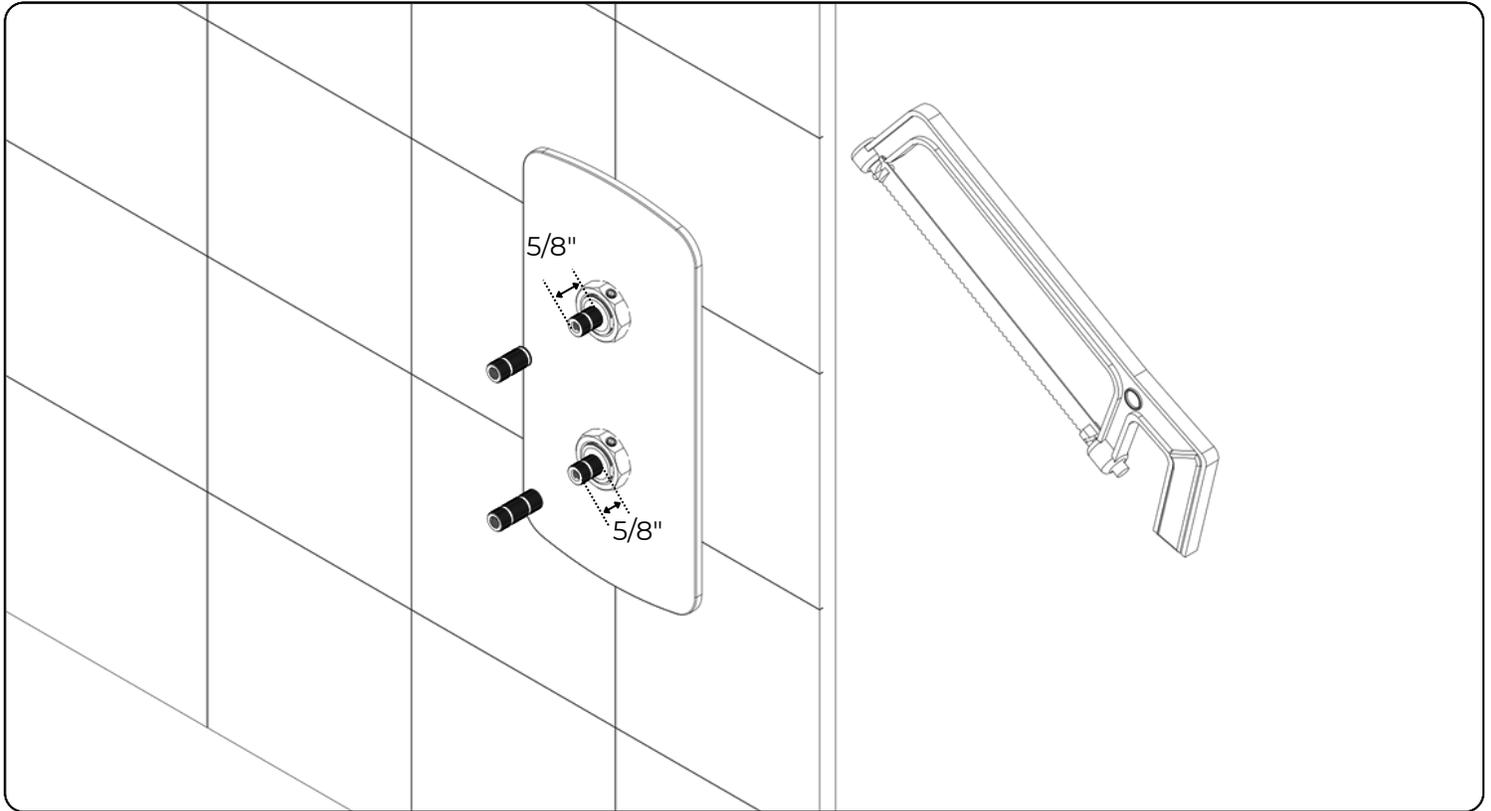
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FOR F973AVO OR F973ANSVO



STEP 12



Using a handsaw, carefully trim the inner spindle of the diverter valve (upper) and the inner spindle of the thermostatic valve (lower) to 5/8 inch, measured from the face of the locking nut. Do your best to cut along reliefs in the inner spindle notching.

Ensure that the cuts are clean and precise to allow proper fitment of the final trim pieces. Take care not to damage the escutcheon trim, locking nut, or surrounding surfaces during the cutting process.

NOTE: Do not cut the spindles too short, as this may prevent the handles from engaging properly or fully seating during final assembly. Double-check measurements before making each cut.

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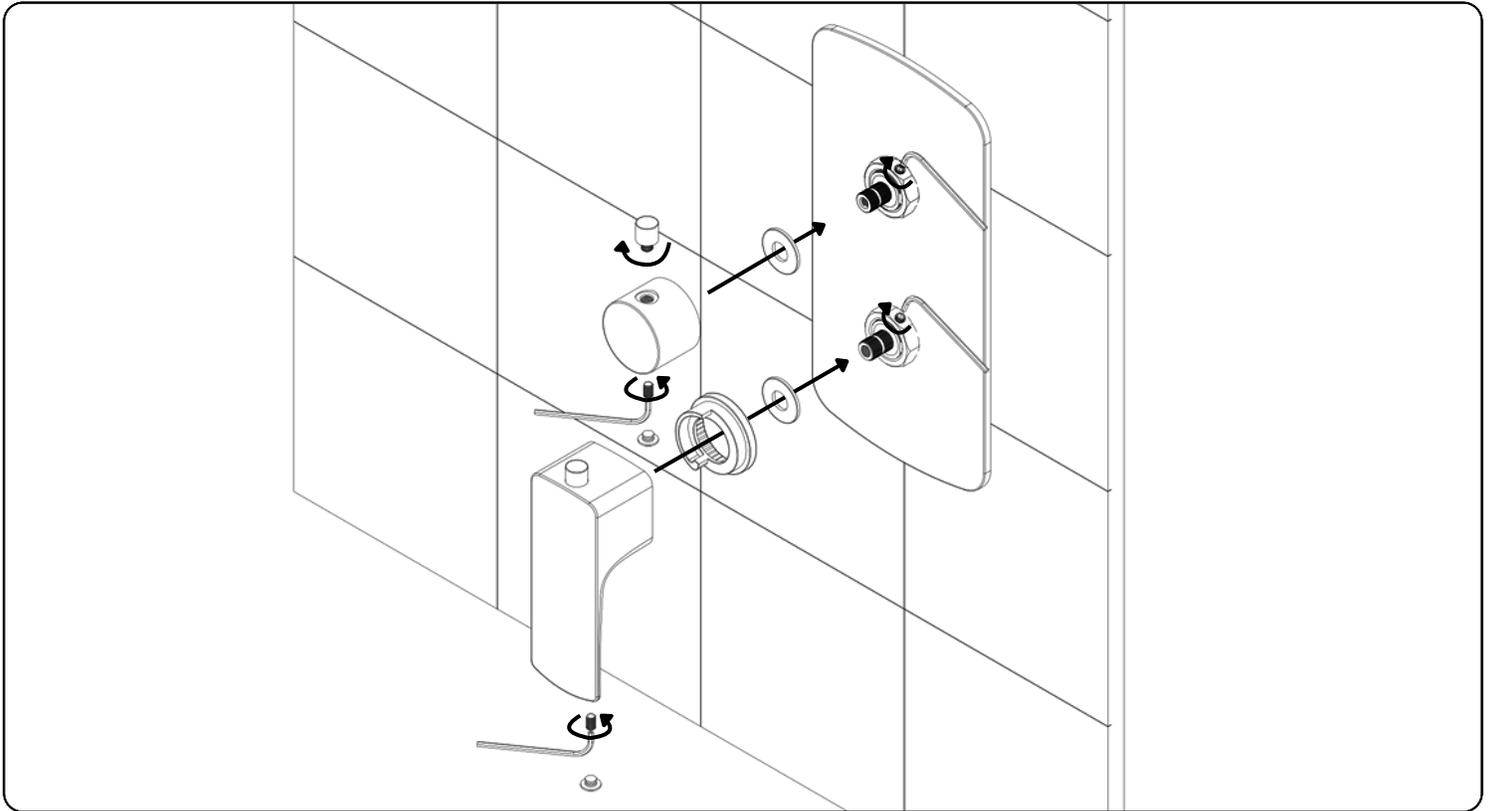
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FOR F973AVO OR F973ANSVO



STEP 13



Verify that the locking nut and set screw are tightened so the escutcheon trim is securely seated against the finished wall. Rotate the inner spindles to the desired position, then slide the included nylon washer over each spindle so it sits between the handle and the escutcheon.

For the diverter (upper) valve, place the handle onto the spindle and thread the diverter lever into the top of the handle until hand-tight and vertically aligned. Tighten the set screw with the included Allen wrench, then install the decorative hole cap.

For the thermostatic (lower) valve, install the temperature-limiting ring onto the spindle, ensuring it is flat and centered. Position the thermostatic handle, tighten the set screw with the Allen wrench, and confirm both handles are secure, flush with the trim, and operate smoothly.

NOTE: You may apply a thin, continuous bead of clear silicone sealant around the perimeter of the escutcheon where it meets the finished wall. Allow the sealant to cure fully according to the manufacturer's specifications before using the fixture.

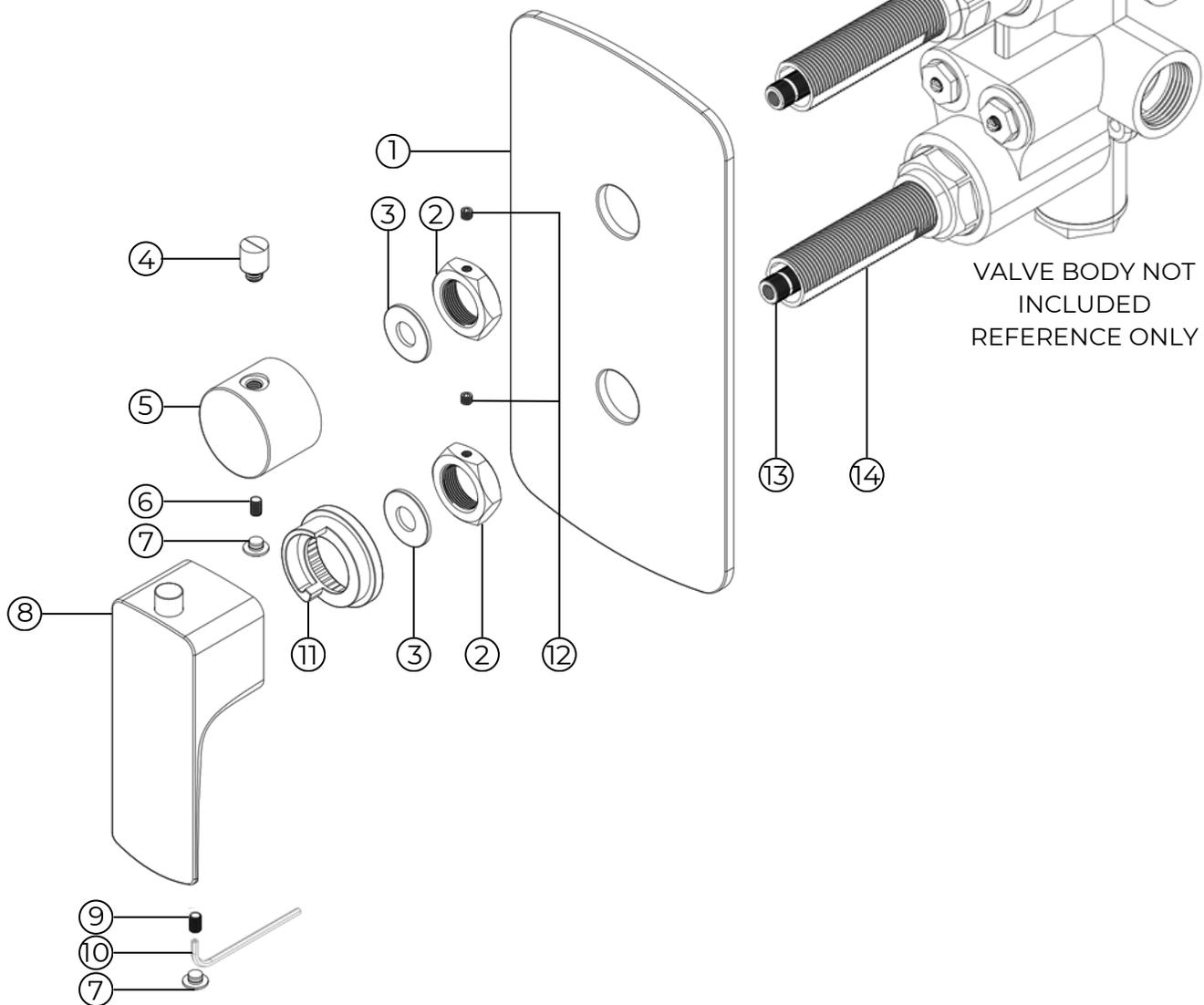
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PARTS BREAKDOWN

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- ① ESCUTCHEON TRIM HARMONY
- ② DIVERTER LOCKING NUT (2)
- ③ NYLON WASHER (2)
- ④ DIVERTER HANDLE LEVER
- ⑤ DIVERTER HANDLE
- ⑥ DIVERTER SET SCREW
- ⑦ HANDLE SET SCREW CAP (2)

- ⑧ THERMOSTAT HANDLE
- ⑨ THERMOSTAT SET SCREW
- ⑩ ALLEN WRENCH
- ⑪ TEMPERATURE LIMITING RING
- ⑫ LOCKING NUT SET SCREW (2)
- ⑬ INNER SPINDLE
- ⑭ OUTER SPINDLE