

F985TK

Harmony Pressure Balance Mixer Trim Kit

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INSTALLATION GUIDE



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OPERATING SPECIFICATIONS



MIXED WATER TEMPERATURE

Maximum: 120°

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

REQUIRMENTS

Control Valve

STANDARDS

To view all standards, please visit product approvals in our learning hub at [artos.us.com](https://www.artos.us.com)

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FP232V: Progressive Pressure Balance Mixer Valve



F980V: 2-Way Pressure Balance Mixer Valve

The difference between the two valves lies in their cartridge type and flow operation. The **FP232V** Progressive Pressure Balance Mixer Valve is equipped with a red cartridge and features progressive operation and pressure-based outlet activation. This allows the user to increase flow, which first exits lower outlet toward tub filler with diverter, which, when pulled, stops flow, in turn activating the top outlet. In contrast, the **F980V** 2-Way Pressure Balance Mixer Valve uses a blue cartridge and provides 2-way, non-progressive operation, directing water through the selected outlet with a standard pressure-balance function.

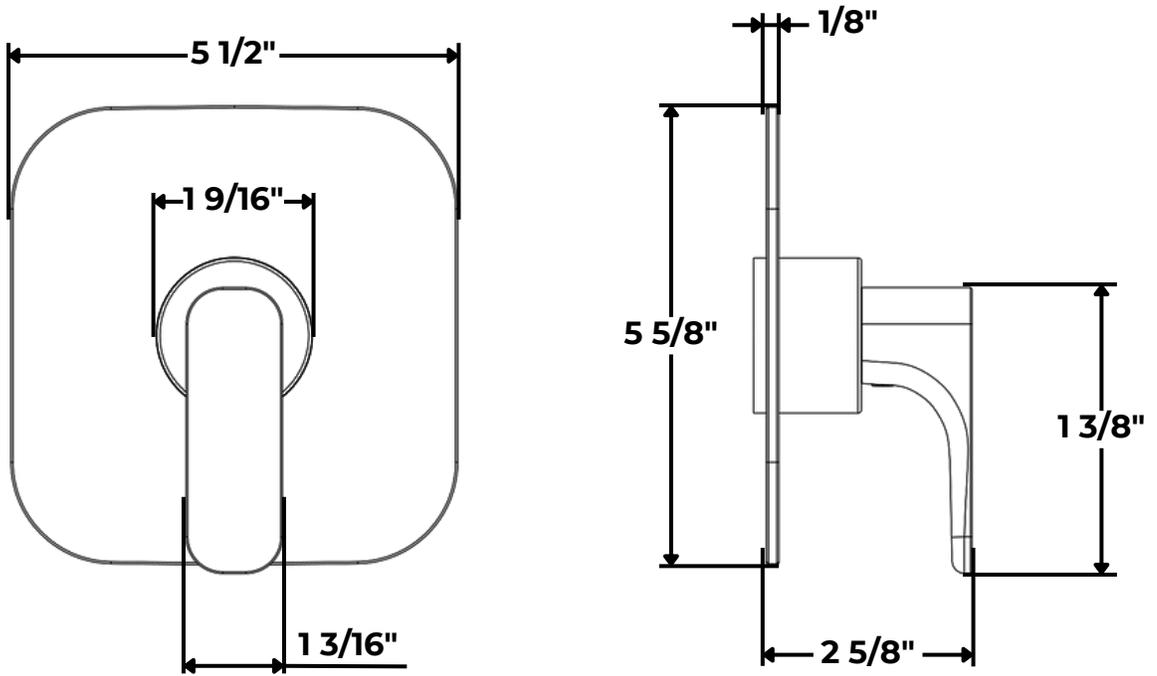
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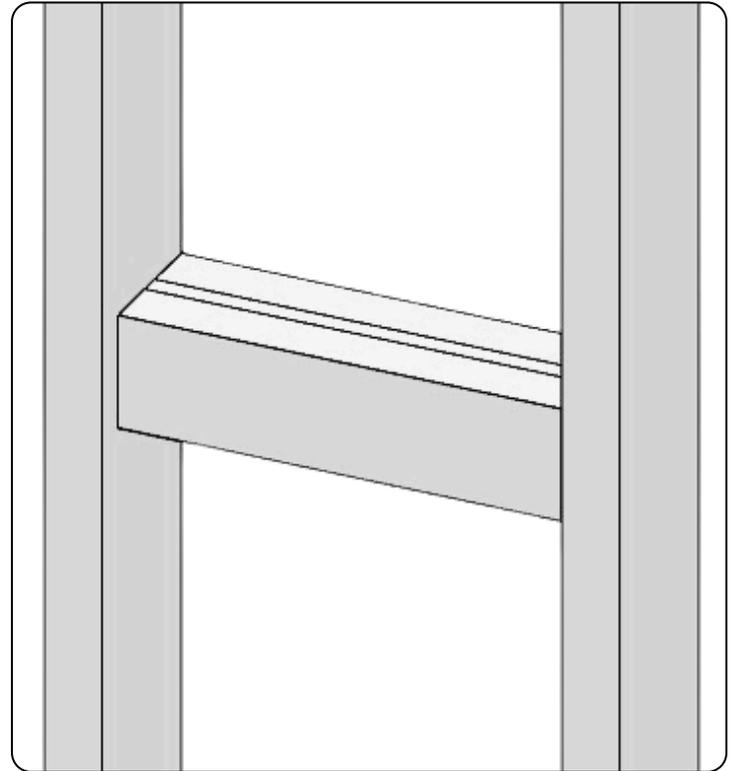
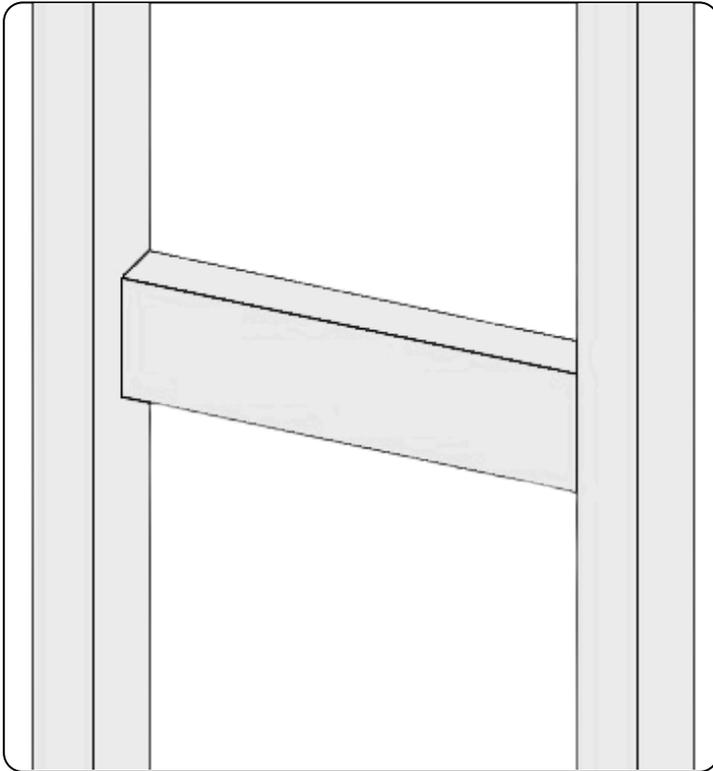
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PRODUCT DIMENSIONS

PRODUCT SKU: F985TK



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.

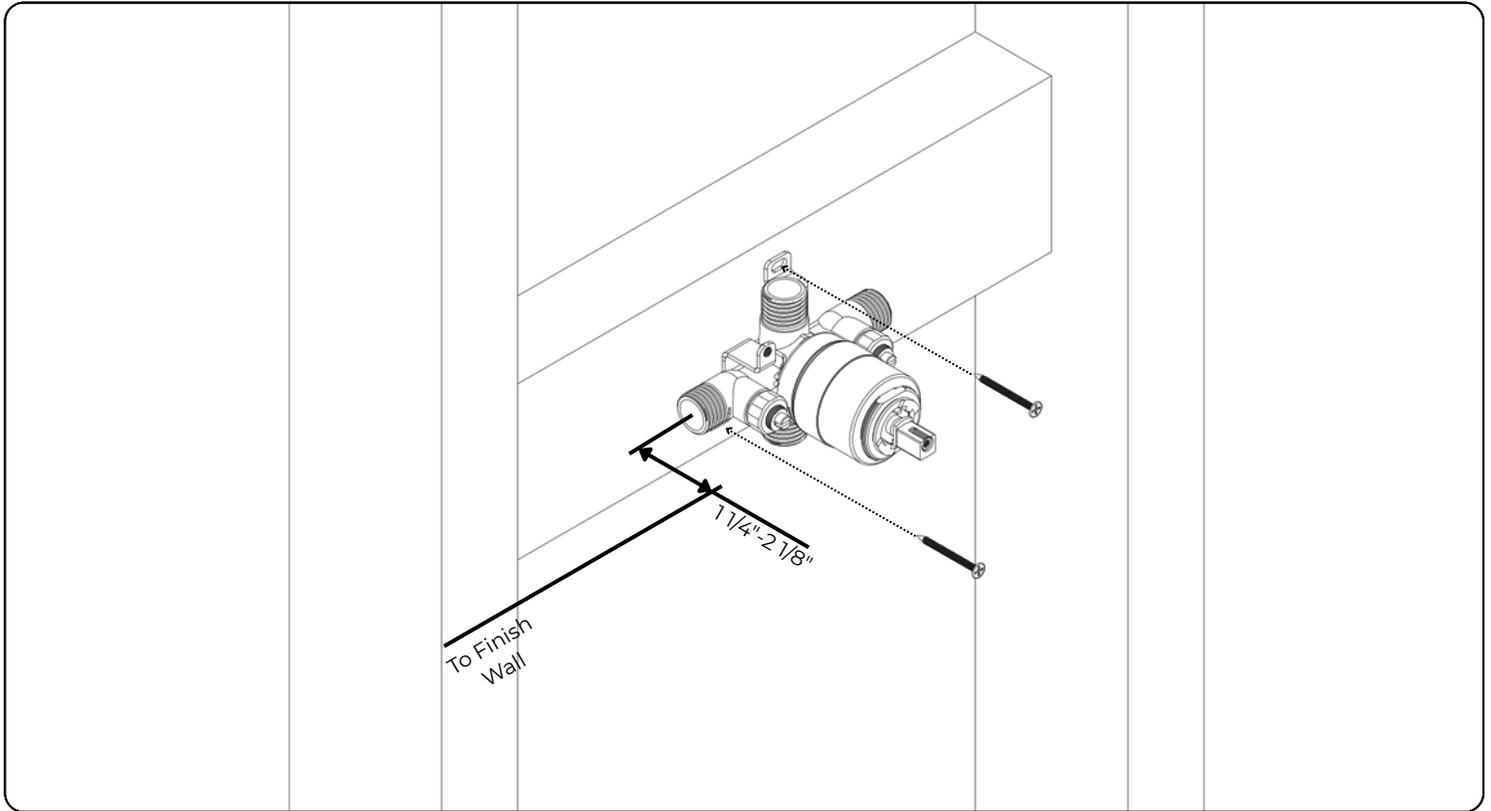
Before beginning, verify that all parts and tools required for installation are available. Review the installation diagram in the parts breakdown at the end of this manual.

Begin by confirming that all required components are present and undamaged. Review the Parts Breakdown diagram to familiarize yourself with the parts of the valve, supply lines, and outlets. Identify the hot and cold supply locations—hot on the left and cold on the right when facing the installation wall.

A solid backing must be installed behind the valve to provide proper support and long-term stability.

- For standard **2x4** wall construction, install a single **2x4** backer behind the valve.
- For **2x6** wall construction, use **two 2x4** backers with a **1/2"** plywood spacer between them for secure installation.

STEP 2



Before installation, note that the distance from the finished wall surface falls within the range defined by the outer edge of the plaster guard, with the goal being the plaster guard is flush.

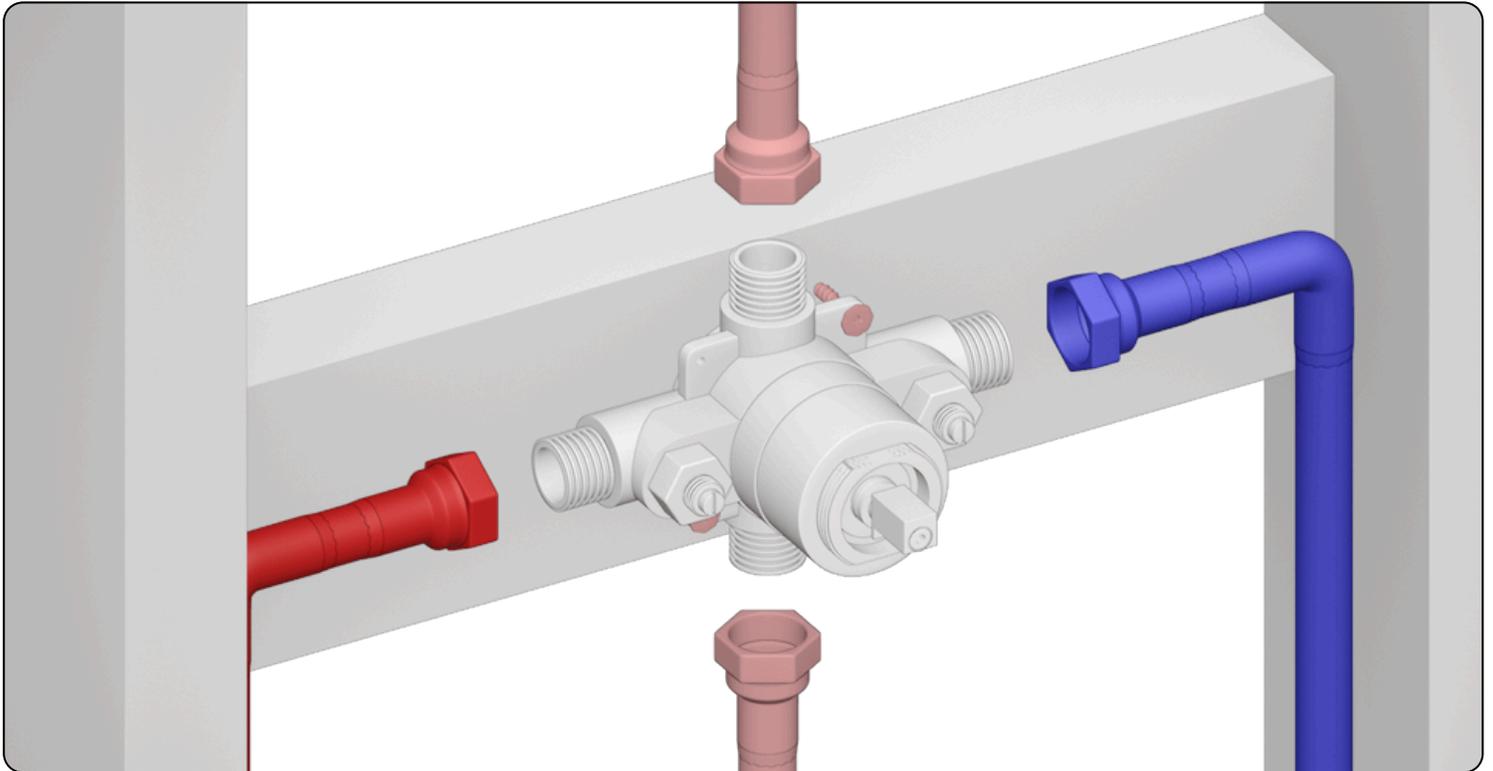
Determine the final position of the valve within the wall cavity and ensure it is properly aligned and **level** before securing. The valve should be installed level and centered in relation to the intended trim location. Once the position has been confirmed, secure the valve to the backing using lag or deck screws.

Confirm the wall depth by comparing the plaster guard depth when installed

- Minimum Depth: **1 1/4"** from the center of the supply line to the finished wall surface.
- Maximum Depth: **2 1/8"**

If the valve is installed too deep, adjust solid wood framing to bring the valve forward. Always double-check alignment before closing the wall to prevent rework during trim installation.

STEP 3



Connect the hot (left) and cold (right) supply lines using **1/2"** NPT fittings. Apply thread sealant or PTFE (plumber's) tape to all male threads before tightening securely. Use **1/2"** copper tubing to ensure sufficient flow for the diverter spout to work correctly

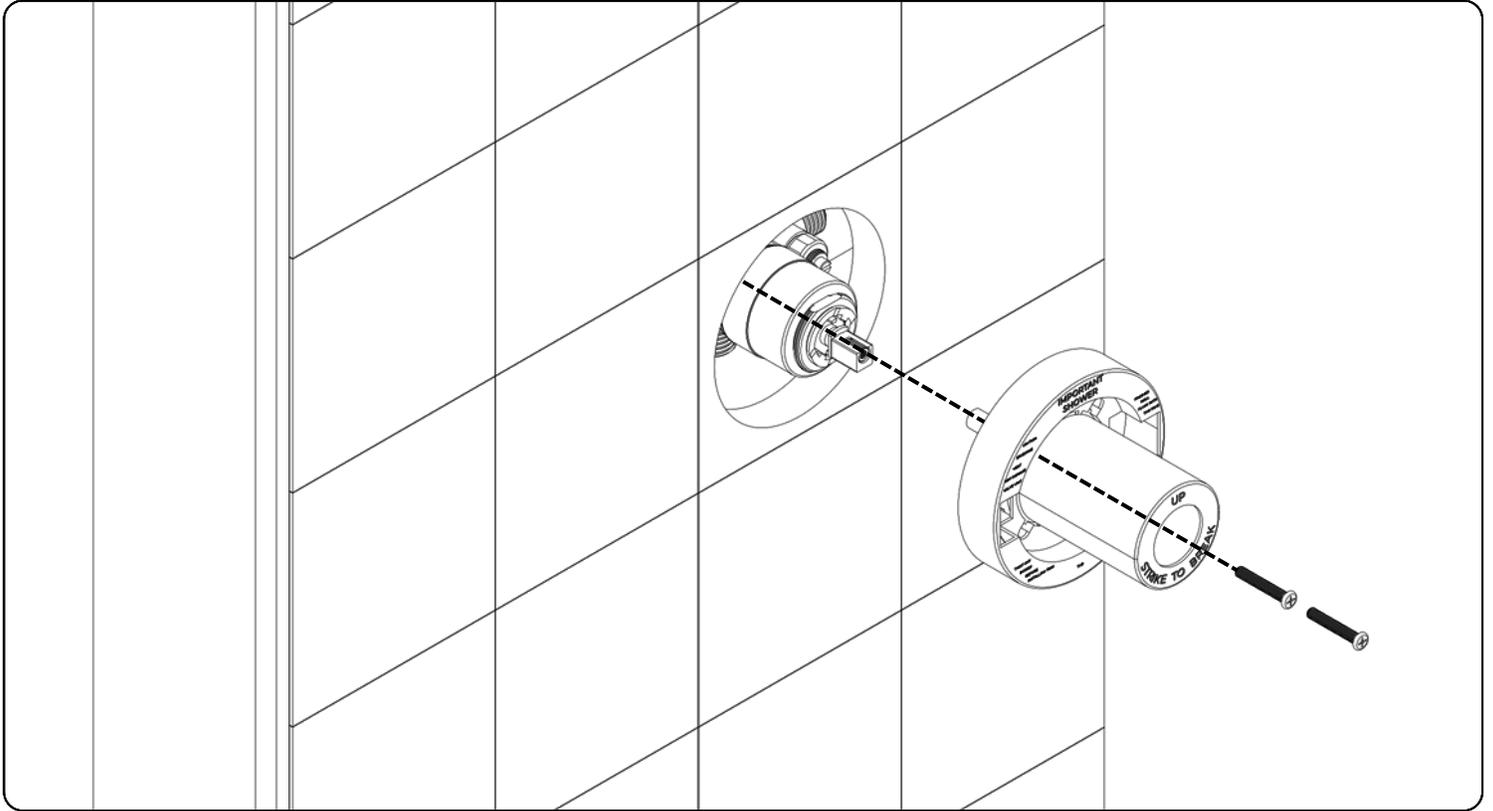
NOTE: If using a torch or heat source near the valve body, remove the cartridge beforehand to prevent heat damage.

The cartridge is reversible for retrofit applications. In the standard orientation (hot on the left, cold on the right), the handle cycles from cold to hot as it turns. If supply lines are reversed, the handle will cycle hot to cold—this is normal and will not affect function.

Flow Operation:

- Top outlet activates when the handle turns counterclockwise from the 6 o'clock OFF position.
- Bottom outlet activates when the handle turns clockwise from the OFF position.
- If the bottom outlet is capped, clockwise rotation will not produce flow; this is normal operation.

STEP 4



Attach the plaster guard to the valve using the provided mounting bolts. The guard protects the valve during wall finishing.

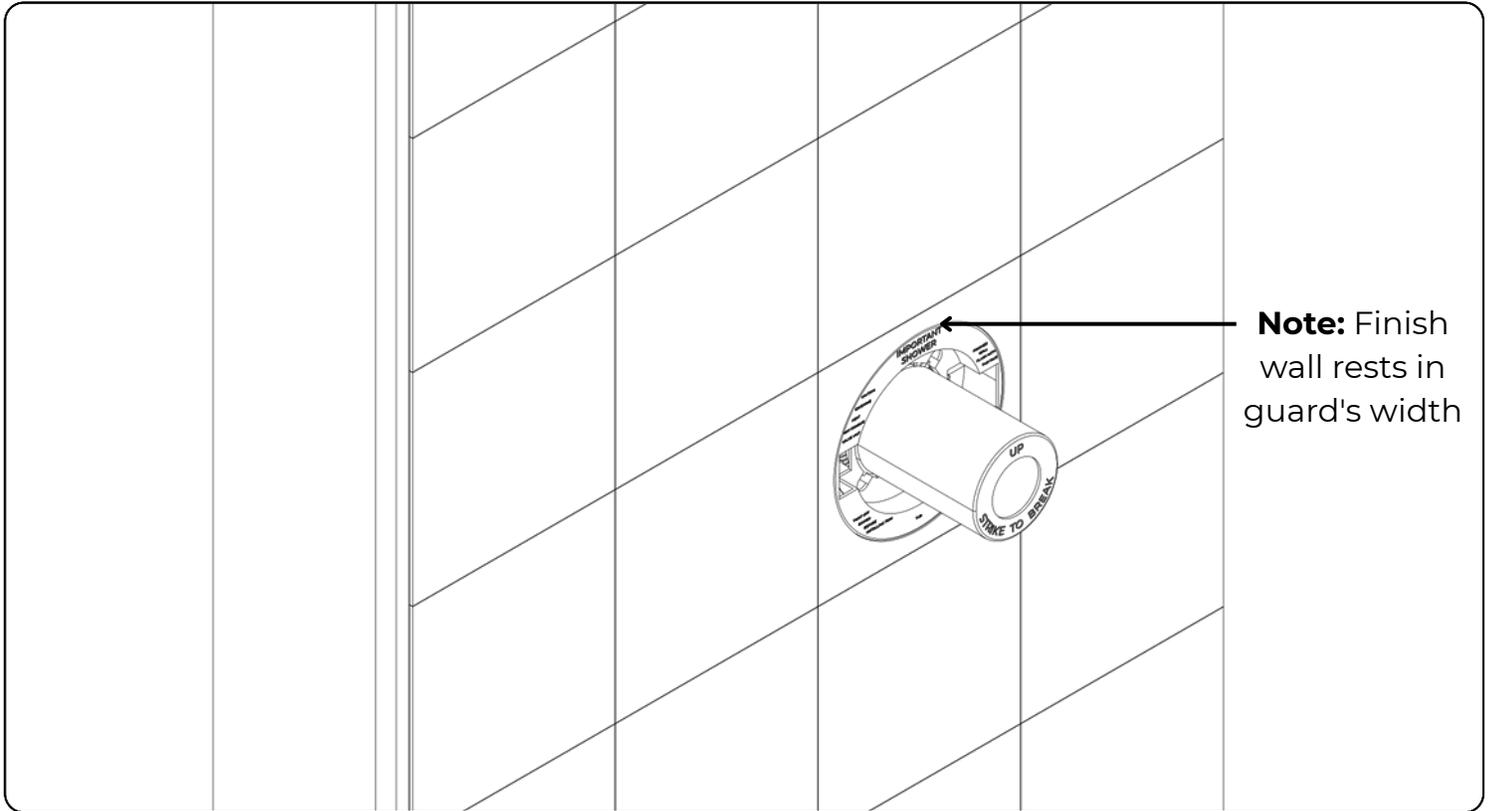
Once tile, stone, or wall paneling is ready to be installed, use the plaster guard as a template to mark your cutout. Cut a **4 1/4"** diameter circular opening centered on the valve to accommodate service stop adjustment and allow clearance for handle operation.

Reinstall the guard until the diverter trim set is ready to be installed.

IMPORTANT:

- Do not exceed a **4 1/4"** opening diameter. Oversized openings may leave visible gaps beyond the trim plate, or cause sealing issues
- Verify that the valve is level and centered before cutting.
- For thicker wall materials, confirm that the cutout depth allows the trim plate and handle to install flush without obstruction.

STEP 5



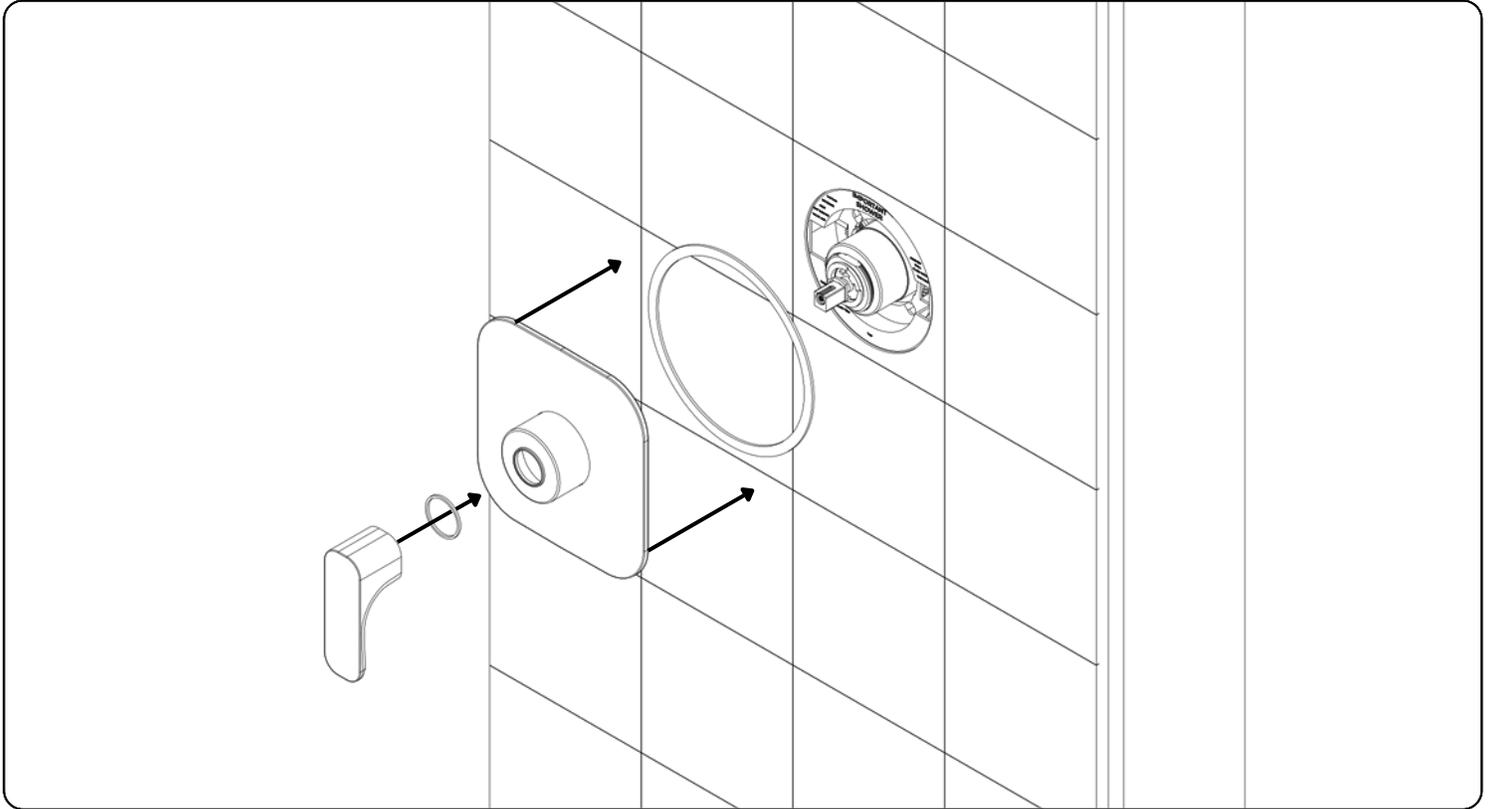
Additional Notes:

- After installation, run the valve briefly to flush out any debris that may have entered the water lines during construction or plumbing work.
- Check all connections for leaks while the water is running and make adjustments as needed.
- Periodically inspect all connections and fittings for signs of wear or loosening. Retighten or replace components as necessary to maintain proper sealing and reliable performance.

FOR FP232V OR F980V



STEP 1



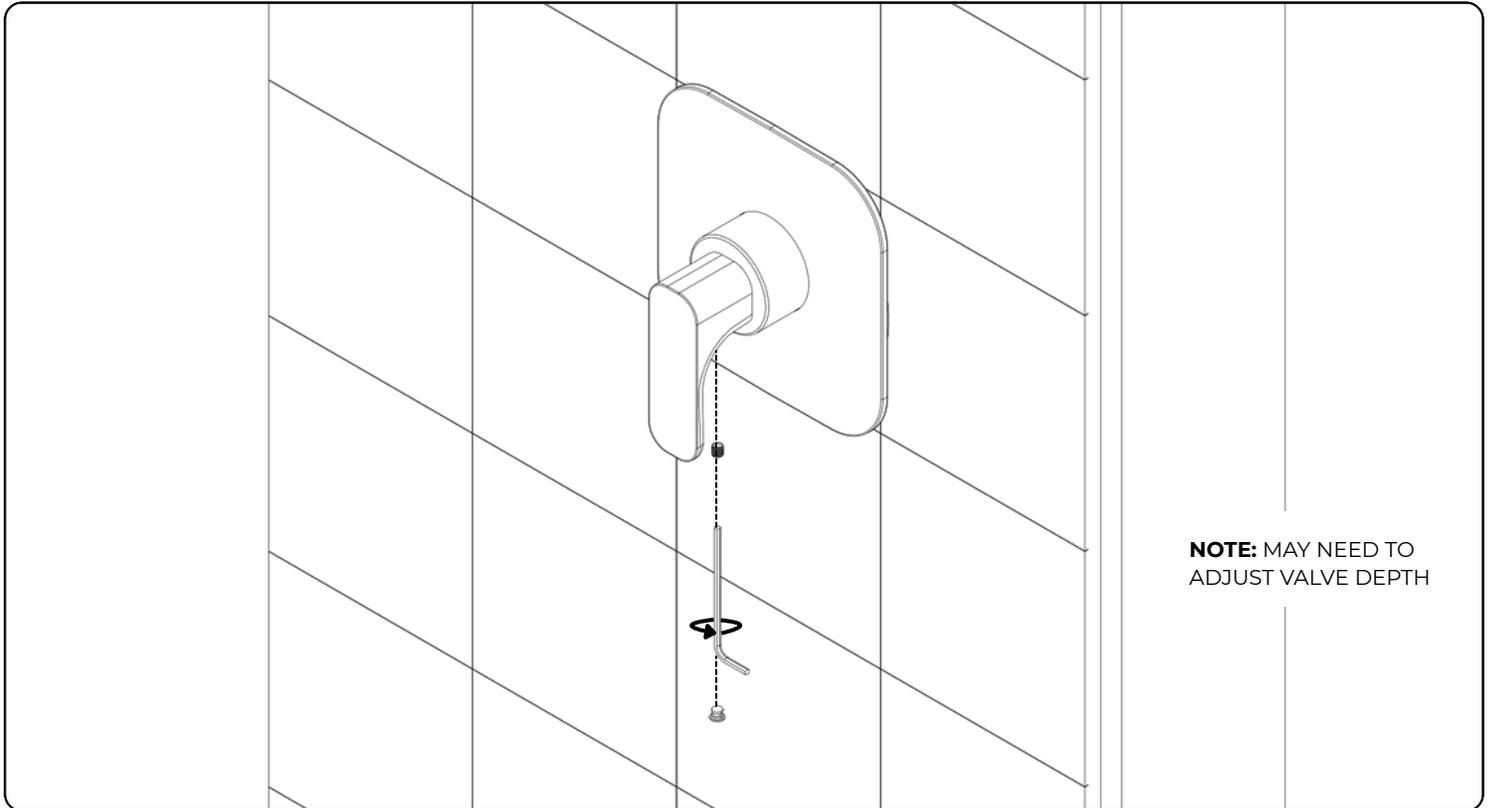
With the installed Valve F980V or F962PVO, punch out the center of the plaster guard after the wall is in its finished state. To begin, test fit the escutcheon againststt wall before removing the 3M tape and adhering to the wall. Ensure the escutcheon is **level** and adhered.

Put the nylon washer ring into the harmony handle, and hold it in place on the escutcheon.

FOR FP232V OR F980V



STEP 2



With the handle against the escutcheon insert the set screw and tighten with the provided Allen wrench. The connection should be tight enough to attach the handle, but not so tight that it strips the set screw or the threads on the valve.

After securing the handle onto the valve spindle, rotate it to ensure the valve operates smoothly. Verify that the resting position of the handle is vertically downward, confirming correct valve orientation.

Note: If temperature adjustment is required, remove the handle, escutcheon, and valve collar to access the internal temperature-limiting rings. Rotate the rings as specified in the valve's Manual to increase or decrease the maximum temperature limit. Once adjusted, reinstall the valve collar and escutcheon before proceeding.

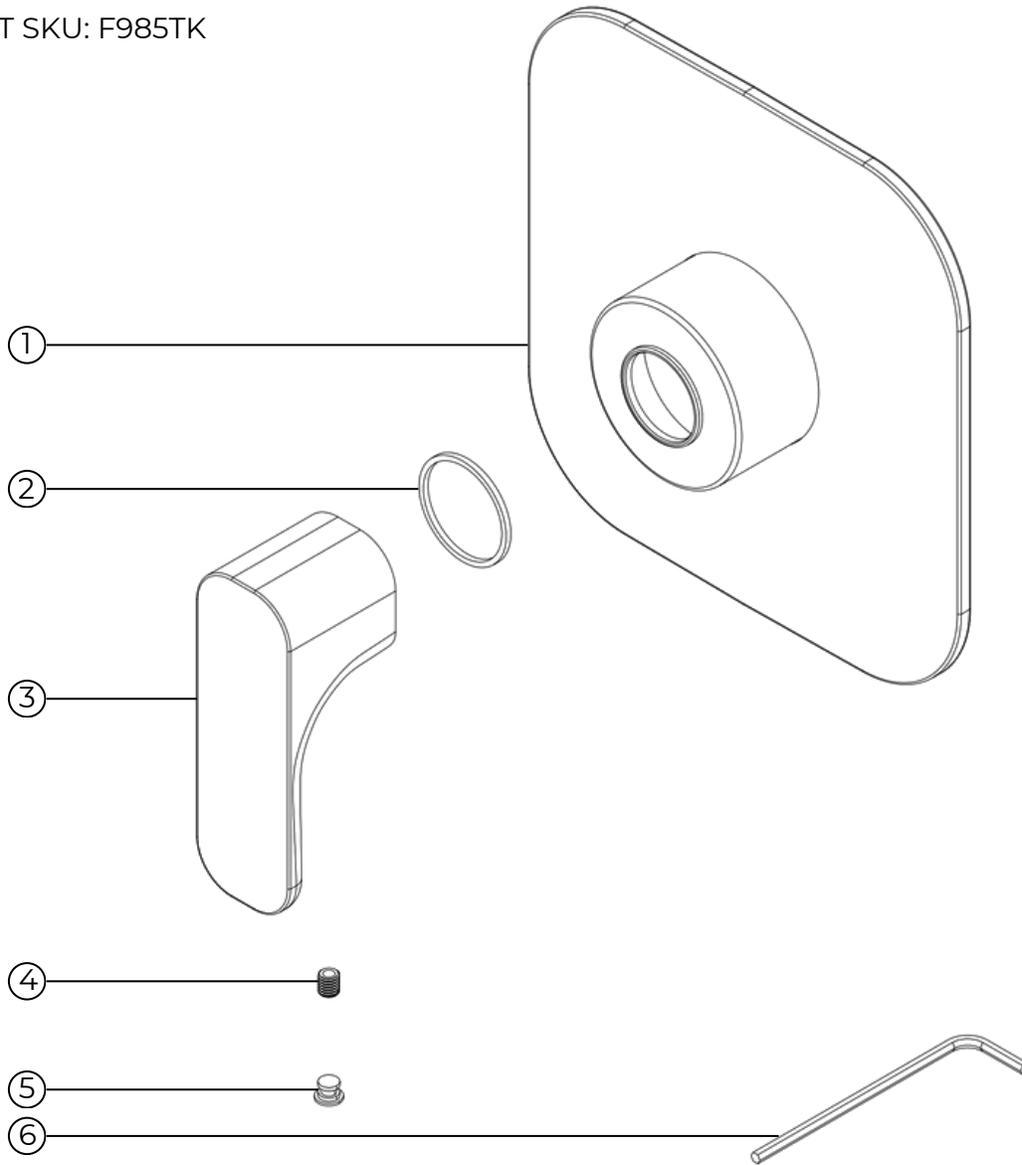
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PARTS BREAKDOWN

PRODUCT SKU: F985TK



- ① ESCUTCHEON TRIM HARMONY
- ② NYLON WASHER
- ③ HARMONY THERMOSTAT HANDLE

- ④ SET SCREW
- ⑤ SET SCREW PLUG
- ⑥ ALLEN WRENCH 2.5mm