American Standard

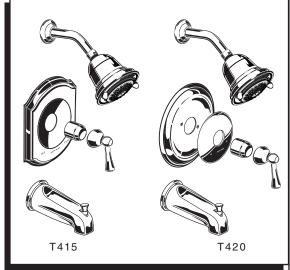
Installation Instructions T415.50X T420.50X

PORTSMOUTH™
IN WALL PRESSURE BALANCING

BATH AND SHOWER TRIM KIT

Thank you for selecting American-Standard... the benchmark of fine quality for over 100 years.

To ensure that your installation proceeds smoothlyplease read these instructions carefully before you begin.



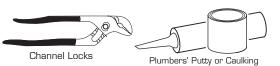
Certified to comply with ANSI A112.18.1

M965028 REV.1.4









INLETS 1/2" NOM. COPPER **ROUGHING-IN DIMENSIONS** INLETS 4-1/16 To assure proper positioning in relation to wall, SWEAT SHR. 1/2" NOM COPPER SWEAT note roughing-in dimensions. **SWEAT** INI FTS 1-5/8" TO 3" (41mm TO 76mm) FINISHED WALL: / 1/2" NPT (12,7 mm) NPT 4-1/16" TUB 1/2" NOM COPPER SWEAT 125mm (4-7/8") REF. **SWEAT** INLETS (STOPS) OPTIONAL TO FINISHED FLOOR SHR. 1/2" NOM COPPER SWEAT USUALLY BETWEEN 65" AND 78" 4-1/16" TUB 1/2" NOM COPPER SWEAT 216mm (8-1/2") REF. INLETS 1/2" NOM. COPPER SWEAT INLETS 1/2" NPT 3-3/8" **ESCUTCHEON T420** "SEE ILLUSTRATION" **ESCUTCHEON T415** 74" FOR HEAD CLEARANCE 3-3/8" 7-13/16" (188 cm) 3-3/8" OUTLETS (198[°] mm) 7-5/8" 1/2" NPT (195 mm) OUTLETS 5-7/8" INLETS 18" OPTIONAL (45,7 cm) 1/2" NPT 1/2" NPT - 1-1/2" REF. (38mm) REF. **Ø** – 6-1/2" -(165 mm) -1/2" COPPER **THREADED INLETS (STOPS)** 7-5/8" DIA -5-1/8" REF. (195 mm) 4" (102 mm) (130 mm) REF. **THREADED INLETS** BOTTOM OF TUB TOP OF TUB RIM

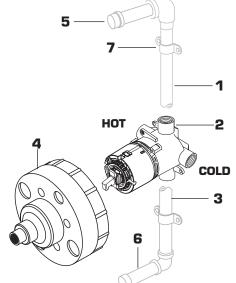
ROUGHING-IN

CAUTION

Turn off water at main supply.

When soldering, remove PLASTER GUARD, CARTRIDGES and CHECK STOPS (IF PRESENT). When finished soldering, flush valve body, replace cartridges, check stops (if present) and plaster guard to continue installation. Use thread sealant or Teflon tape on threaded connections.

- See Roughing-in diagram before starting. Connections are:
 - 1/2" female NPT for threaded inlets.
- Connect RISER PIPE (1) to MANIFOLD (2) top outlet marked "SHR".
- Connect TUB FILLER PIPE (3) at bottom outlet marked "TUB".
- For proper positioning the finished wall must be within side wall of PLASTER GUARD (4).
- If the valve is installed on a fiberglass or other thin wall application, the PLASTER GUARD (4) can be used as a support.
 - Cut a 3" dia. hole in the shower stall.
 - Drill two additional 1" holes to allow access to the stops. (If applicable).
 - Remove PLASTER GUARD (4), rotate 90° so that indicated screw holes fit MANIFOLD (2).
 - Push CAP on valve, place ESCUTCHEON on and attach with screws.
- Connect hot and cold water supplies.
- Cap off shower pipe (5) and tub filler pipe (6).
- For support, use pipe BRACES (7) secured to wooden braces.
- With valve turned off, turn on water supplies. Check for leaks



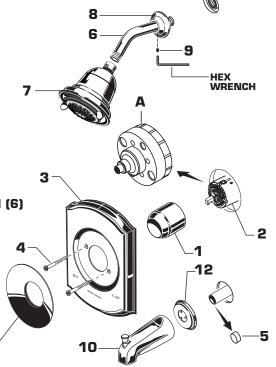
5

2

INSTALL TRIM (T415 & T420) - T415 illustrated

CAUTION: Protect finish on SHOWER ARM, SHOWER HEAD and TUB SPOUT when installing.

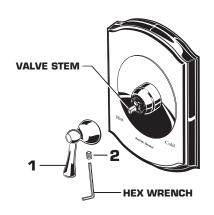
- When finished tiling the wall, remove PLASTER GUARD (A) and turn off water supply.
- Push CAP (1) over VALVE CARTRIDGE (2).
- Mount ESCUTCHEON (3) and gasket to valve body with SCREWS (4).
- Press DIAL PLATE (11) onto CAP (1), flush against ESCUTCHEON (3).
- Remove PIPE CAP & PLUG (5) from shower pipe and tub filler pipe.
- Apply Teflon Tape to both ends of SHOWER ARM (6). Install SHOWER ARM (6) with FLANGE (8) into shower pipe and tighten.
- Thread SHOWER HEAD (7) onto ARM (6) and tighten.
- Push SHOWER ARM FLANGE (8) to wall and tighten SET SCREW (9) with 5/64" hex wrench.
- Apply Teflon Tape to spout filler pipe and install SPOUT ESCUTCHEON (12) and DIVERTER SPOUT (10).



3

INSTALL HANDLE and TEST FITTING

- Align and install HANDLE (1) onto valve stem. Tighten SET SCREW (2) using 2.5mm Hex Wrench supplied.
- Check proper operation of HANDLE (1).
- Turn on water supply on and test installed fitting.
 Operate valve and diverter spout.

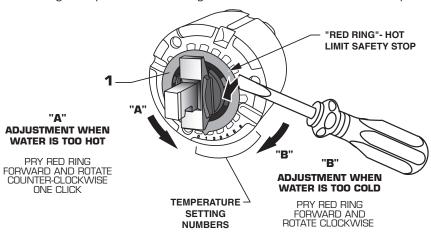


4 ADJUST HOT LIMIT STOP

HOT LIMIT SAFETY STOP ADJUSTMENT

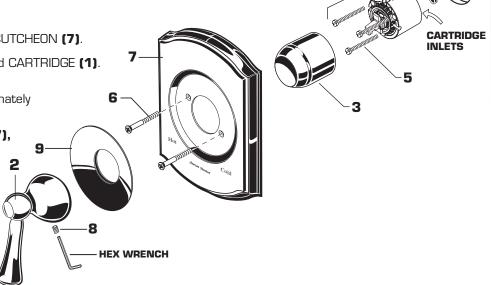
By restricting handle rotation and limiting the amount of hot water allowed to mix with the cold, the HOT LIMIT SAFETY STOP reduces risk of accidental scalding. To set the maximum hot water temperature of your faucets, all you need to do is adjust the setting on the HOT LIMIT SAFETY STOP.

■ Use a flat blade screwdriver or your fingers to pull up and rotate red HOT LIMIT SAFETY STOP (1). Follow Step "A" or "B" to adjust min./max. discharge temperature. "O" being the hottest to "7" the coldest temperature setting. Factory set at "O".



5 SERVICE

- If faucet drips, operate handle several times from "off" to "on". Do not apply excessive force.
- Clogged CARTRIDGE (1) inlets may cause reduced flow in "full on" hot or cold. To clean inlets, first turn off water supply, then:
 - Loosen HANDLE SET SCREW (8) and pull of HANDLE (2).
 - Pull off DIAL PLATE (9).
 - Remove two SCREWS (6) holding ESCUTCHEON (7) and remove ESCUTCHEON (7).
 - Remove CAP (3), SCREWS (5) and CARTRIDGE (1). Clean inlets and MANIFOLD (4).
 - Reassemble CARTRIDGE (1), alternately tightening SCREWS (5).
 - Replace CAP (3), ESCUTCHEON (7), DIAL PLATE (9) and HANDLE (2). Check flow.



6 CARE INSTRUCTIONS

DO: SIMPLY RINSE THE PRODUCT CLEAN WITH CLEAR WATER. DRY WITH A SOFT COTTON FLANNEL CLOTH.

DO NOT: CLEAN THE PRODUCT WITH SOAPS, ACID, POLISH, ABRASIVES, HARSH CLEANERS, OR A CLOTH WITH A COARSE SURFACE.