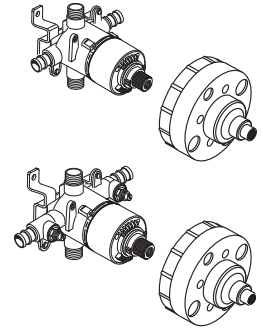


INSTALLATION INSTRUCTIONS

ROUGH VALVE KIT with PEX CONNECTIONS PRESSURE BALANCE CYCLING VALVE

R117
R117SS
R118
R118SS



Certified to comply with ANSI A112.18.1

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

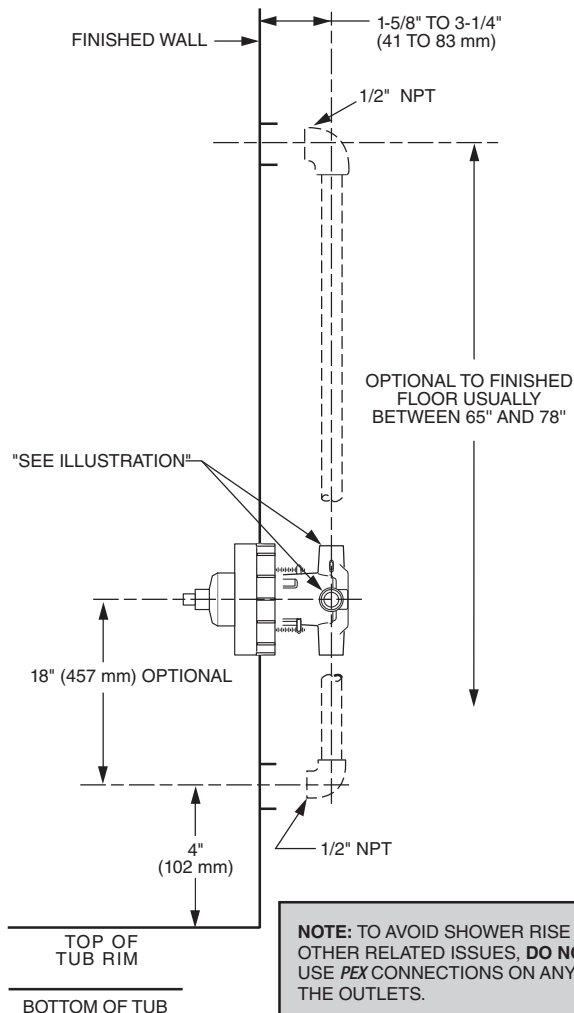
To ensure that your installation proceeds smoothly-please read
these instructions carefully before you begin.

RECOMMENDED TOOLS



ROUGHING-IN DIMENSIONS

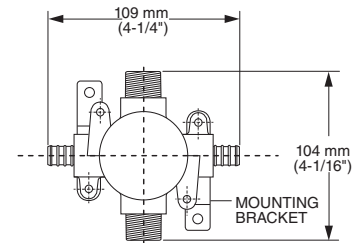
To assure proper positioning in relation to wall,
note roughing-in dimensions.



NOTE: TO AVOID SHOWER RISE OR OTHER RELATED ISSUES, **DO NOT** USE PEX CONNECTIONS ON ANY OF THE OUTLETS.

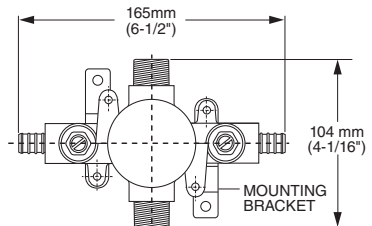
PEX (R117)

INLETS
1/2" PEX
(ASTM F1807-2)
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



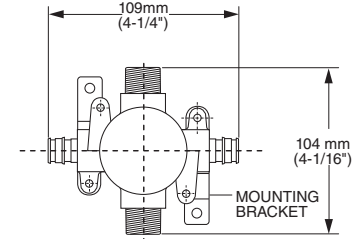
PEX (R117SS)

INLETS
1/2" PEX
(ASTM F1807-2)
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



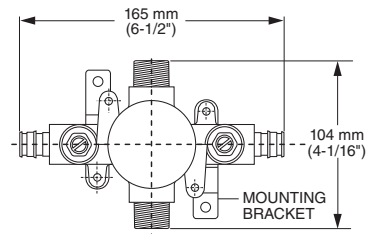
PEX (R118)

INLETS
1/2" PEX
(ASTM F1960)
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



PEX (R118SS)

INLETS
1/2" PEX
(ASTM F1960)
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT

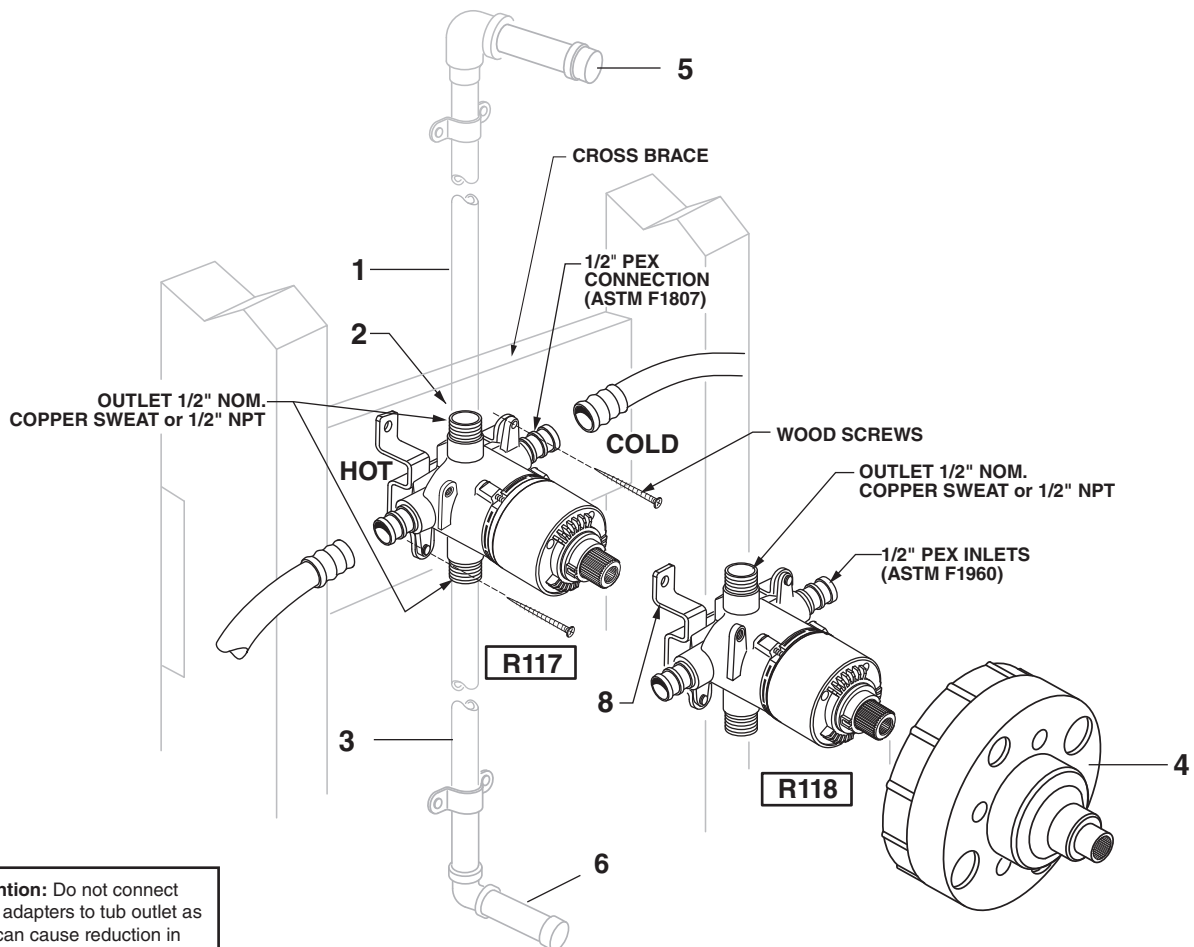


1 ROUGHING-IN

CAUTION Turn off hot and cold water supplies before beginning.

NOTE: When soldering, remove **PLASTER GUARD**, **CARTRIDGE** and **PRESSURE BALANCING UNIT**. When finished soldering, flush valve body, replace pressure balancing unit, cartridge and plaster guard to continue installation.

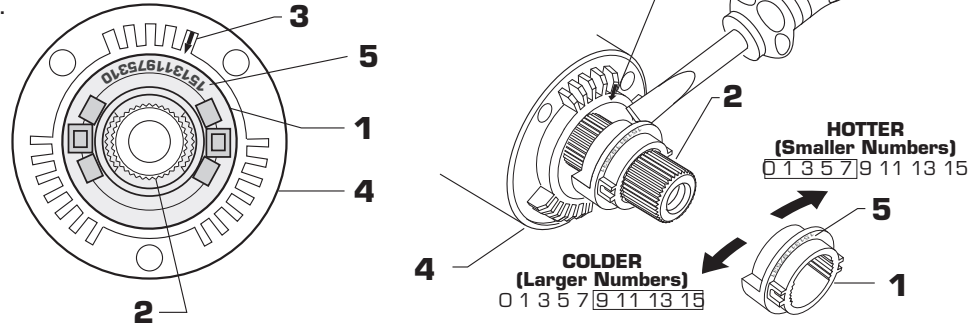
- See Roughing-in diagram before starting.
Connections are:
 - **R117 & R117SS**
 - INLETS 1/2" PEX INLETS (ASTM F1807-2)
 - OUTLETS 1/2" NOM. COPPER SWEAT or 1/2" NPT
 - **R118 & R118SS**
 - INLETS 1/2" PEX INLETS (ASTM F1960)
 - OUTLETS 1/2" NOM. COPPER SWEAT or 1/2" NPT
- Secure **MOUNTING BRACKET (8)** to wall brace with wood screws.
- Mount **VALVE BODY** to cross brace with-in wall. Use wood screws to secure **VALVE BODY** to brace.
- 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.
 - Remove **PLASTER GUARD (4)**, rotate 90° so that indicated screw holes fit **MANIFOLD (2)**.
 - Connect hot and cold water supplies. Connections are 1/2" PEX connections.
- Cap off shower pipe **(5)** and tub filler pipe **(6)**.
- For support, use pipe braces secured to wooden braces. With valve turned off, turn on water supplies. Check for leaks. Finish wall construction.



Attention: Do not connect PEX adapters to tub outlet as this can cause reduction in flow and back flow to shower while in tub mode.

2 ADJUST HOT LIMIT STOP

- By restricting HANDLE rotation and limiting the amount of hot water allowed to mix with the cold, the HOT LIMIT SAFETY STOP (1) reduces risk of accidental scalding. To set the maximum hot water temperature of your faucet, all you need to do is adjust the setting on the HOT LIMIT SAFETY STOP (1).
- Turn CARTRIDGE STEM (2) to the OFF position (coldest setting) before making adjustment to HOT LIMIT STOP (1). Use a flat blade screwdriver to pry free the HOT LIMIT SAFETY STOP (1). Pull forward and rotate counterclockwise one number to limit hot water temperature. Use ARROW (3) on CARTRIDGE (4) and NUMBERS (5) on HOT LIMIT STOP (1) for indication.



3 TO GAIN ACCESS TO VALVE FOR SERVICING

- Pull INDEX CAP, unscrew HANDLE SCREW and pull HANDLE off valve stem.
- Remove two SCREWS holding ESCUTCHEON and remove ESCUTCHEON.
- Remove COVER by pulling straight out.
- Shut off water supply by either closing off main water supply, or closing off the hot and cold CHECK STOPS on valve.

VALVE LEAKS WHEN SHUT OFF

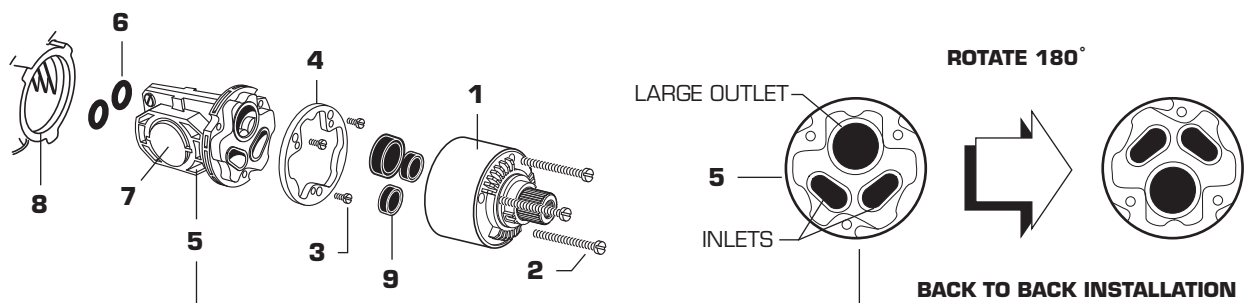
- Remove CARTRIDGE (1) by removing CARTRIDGE SCREWS (2). Remove three SCREWS (3) from FIXATION RING (4) and pull out PRESSURE BALANCING (5) unit.
- Clean SEALS (9) on base of CARTRIDGE (1). Check base of PRESSURE BALANCING UNIT (5) and clean O-RINGS (6). Remove CAPS (7) and check O-RINGS on inside of CAPS (7). Clean inside sealing surfaces of VALVE BODY (8).
- Re-assemble PRESSURE BALANCING UNIT (5) and CARTRIDGE (1). Tighten all screws.
- Turn on water supply and see above for installing TRIM and HANDLE.

UNABLE TO MAINTAIN CONSTANT TEMPERATURE

- Remove PRESSURE BALANCE UNIT (5).
- Remove CAPS (7) and clean valve thoroughly.
- Examine balancing unit and check condition of O-ring on end of piston. Piston should move back and forth. Order Repair Part M952100-0070A if balancing unit is defective.
- Replace CAPS (7) and install PRESSURE BALANCE UNIT (5). Make sure inlets line up with two holes in bottom of casting. Top flange should butt-up against top of casting.

BACK TO BACK INSTALLATION

- Remove PRESSURE BALANCE UNIT (5). Rotate PRESSURE BALANCE UNIT (5) 180° so that the inlets face up and the large outlet port faces down.
- Push PRESSURE BALANCE UNIT (5) in casting make sure inlets line up with holes in bottom of casting. Top flange should butt up against top of casting.
- Reassemble FIXATION RING (4) and CARTRIDGE (1).

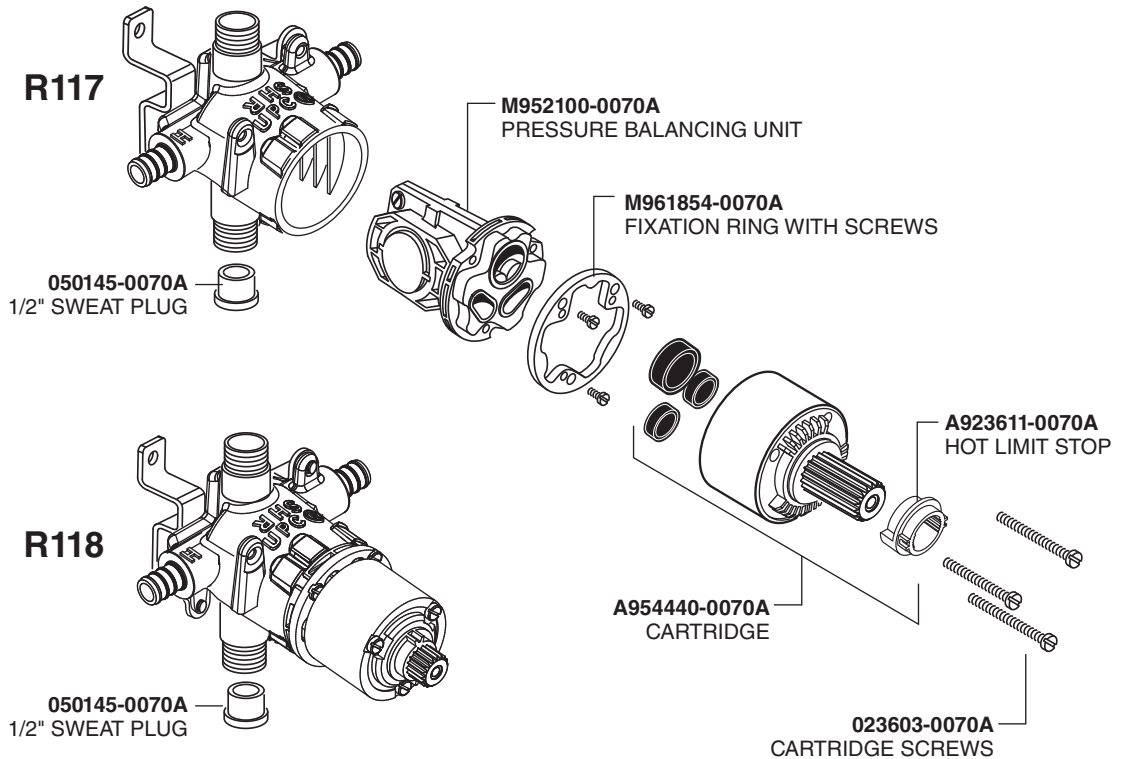
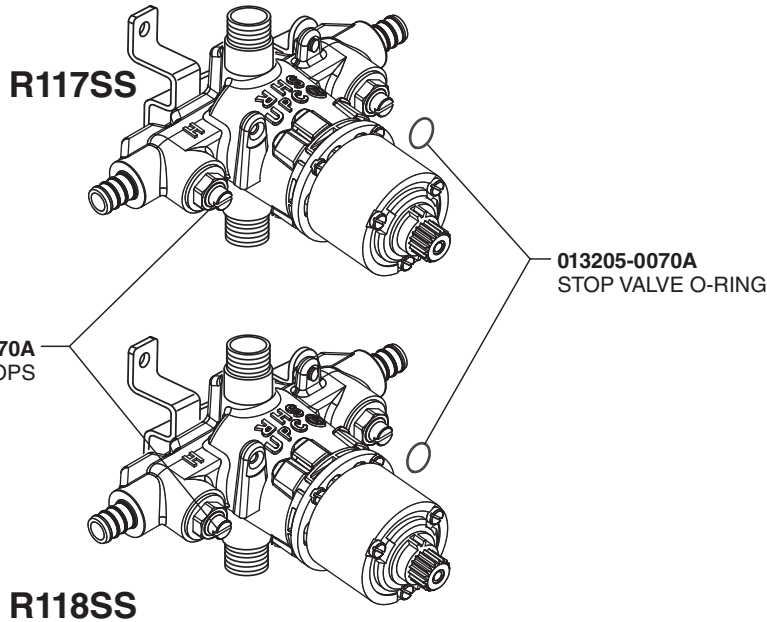


American Standard

ROUGH VALVE KIT with PEX CONNECTIONS PRESSURE BALANCE CYCLING VALVE

MODEL NUMBERS

R117	R118
R117SS	R118SS



HOT LINE FOR HELP

For toll-free information and answers to your questions, call:

1 (800) 442-1902

Mon. - Fri. 8:00 a.m. to 8:00 p.m. EST

Saturday 10:00 a.m. to 4:00 p.m. EST

IN CANADA 1-800-387-0369

(TORONTO 1-905-306-1093)

Weekdays 8:00 a.m. to 7:00 p.m. EST

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