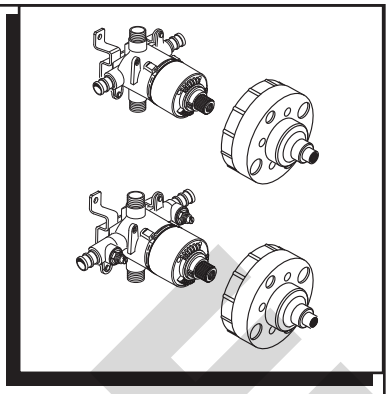
American Standard

INSTALLATION INSTRUCTIONS

R117
R117SS
R118
R118SS

ROUGH VALVE KIT
with PEX CONNECTIONS
PRESSURE BALANCE CYCLING VALVE



Certified to comply with ANSI A112.18.1

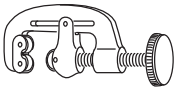
Thank you for selecting American-Standard...
the benchmark of fine quality for over 100 years.

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

RECOMMENDED TOOLS

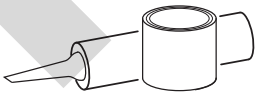

Phillips Screwdriver


Flat Blade Screwdriver


Tubing Cutter

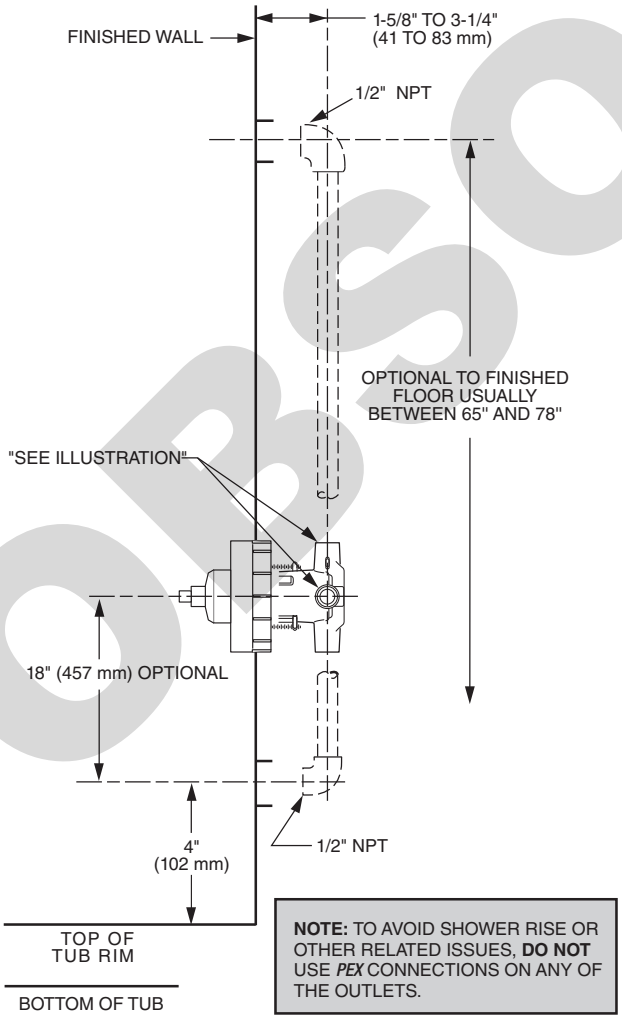

Adjustable Wrench


Channel Locks


Plumbers' Putty or Caulking

ROUGHING-IN DIMENSIONS

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

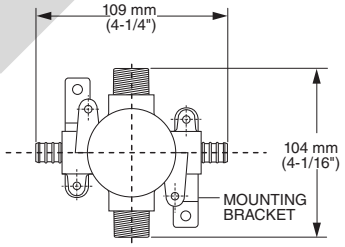


NOTE: TO AVOID SHOWER RISE OR OTHER RELATED ISSUES, **DO NOT** USE ***PEX*** CONNECTIONS ON ANY OF THE OUTLETS.

PEX (R117)

INLETS
1/2" PEX
(ASTM F1807-2)

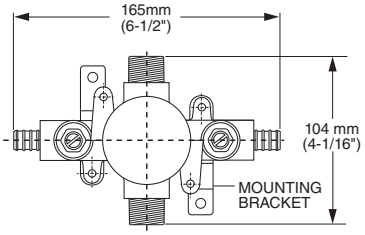
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



PEX (R117SS)

INLETS
1/2" PEX
(ASTM F1807-2)

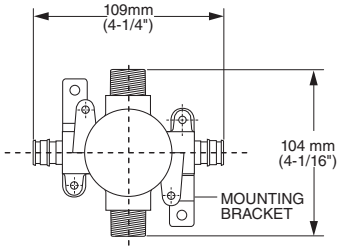
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



PEX (R118)

INLETS
1/2" PEX
(ASTM F1960)

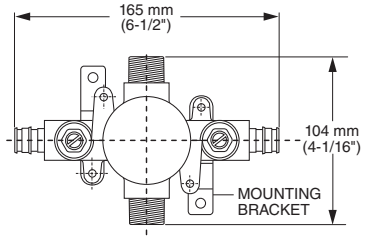
OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



PEX (R118SS)

INLETS
1/2" PEX
(ASTM F1960)

OUTLETS
1/2" NOM.
COPPER SWEAT
or 1/2" NPT



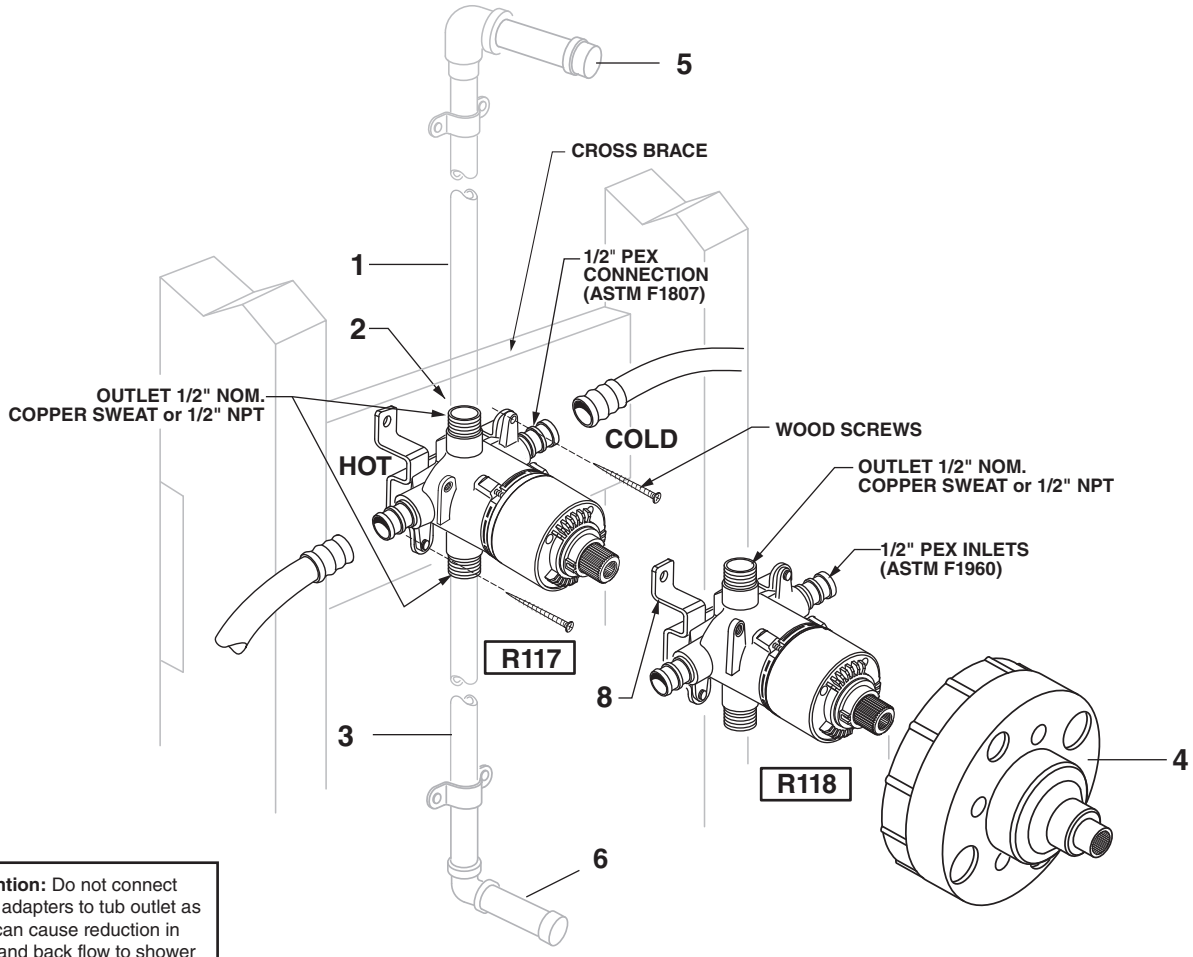
M968931 Rev. 1.6 (7/15)

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 balanceing 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 are1/2" 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.

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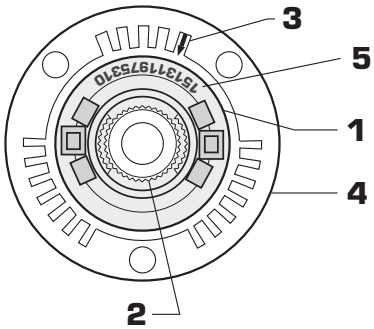
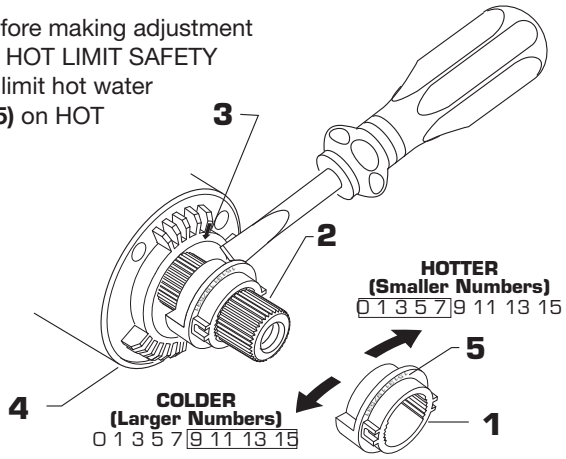
2 ADJUST HOT LIMIT STOP

- 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

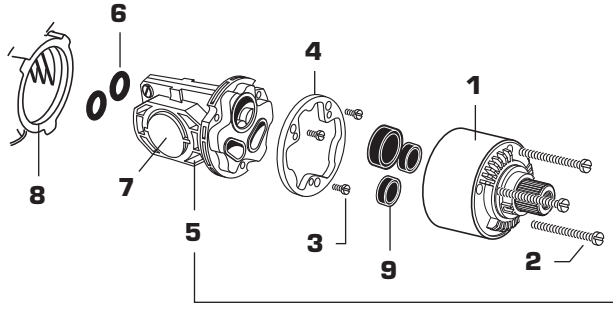
- Remove CARTRIDGE (1) by removing CARTRIDGE SCREWS **(2)**. Remove three SCREWS **(3)** from FIXATION RING **(4)** and pull out PRESSURE BALANCING **(5)** unit.
- Clean SEALS **(9)** on base of CARTRIDGE **(1)**. Check base of PRESSURE BALANCING UNIT **(5)** and clean O-RINGS **(6)**. Remove CAPS **(7)** 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.

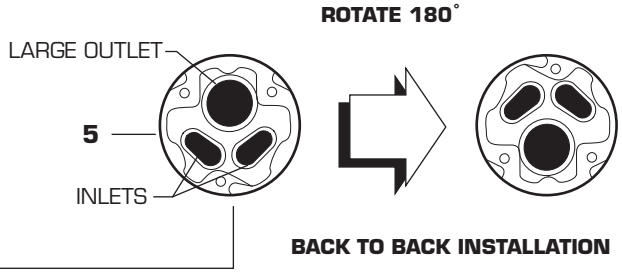
UNABLE TO MAINTAIN CONSTANT TEMPERATURE

- 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)**.





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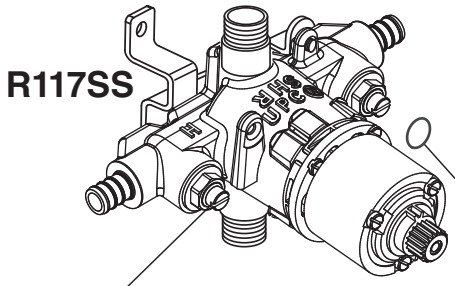
American Standard

ROUGH VALVE KIT
with PEX CONNECTIONS
PRESSURE BALANCE
CYCLING VALVE

MODEL NUMBERS

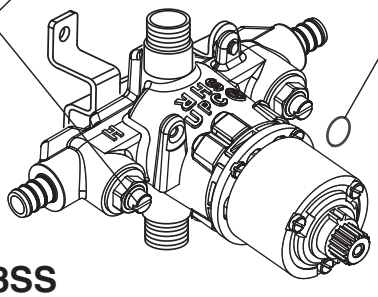
R117	**R118**
R117SS	**R118SS**



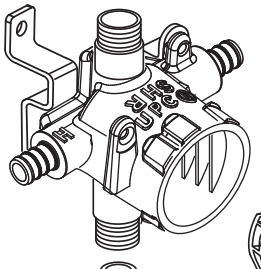
R117SS

013205-0070A
STOP VALVE O-RING

051122-0070A
SCREWDRIVER STOPS



R118SS

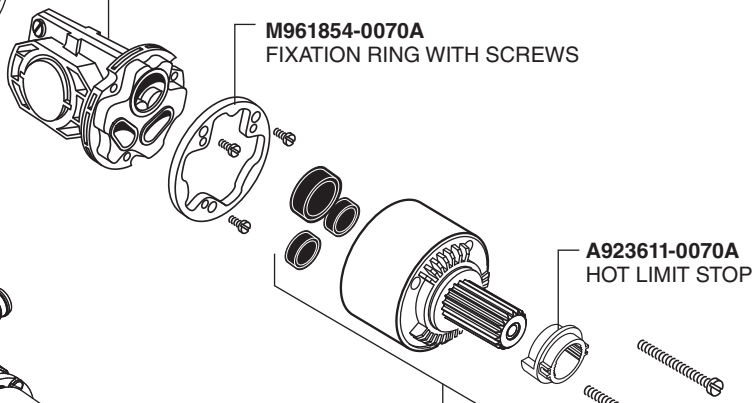


R117

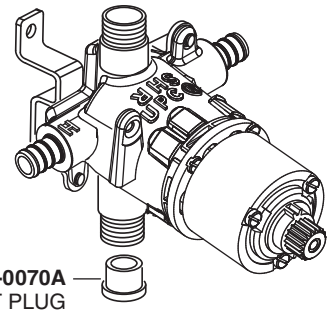
M952100-0070A
PRESSURE BALANCING UNIT

M961854-0070A
FIXATION RING WITH SCREWS

050145-0070A
1/2" SWEAT PLUG



A923611-0070A
HOT LIMIT STOP



R118

A954440-0070A
CARTRIDGE

050145-0070A
1/2" SWEAT PLUG

023603-0070A
CARTRIDGE SCREWS

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

IN MEXICO 01-800-839-1200

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