

INSTALLATION INSTRUCTIONS

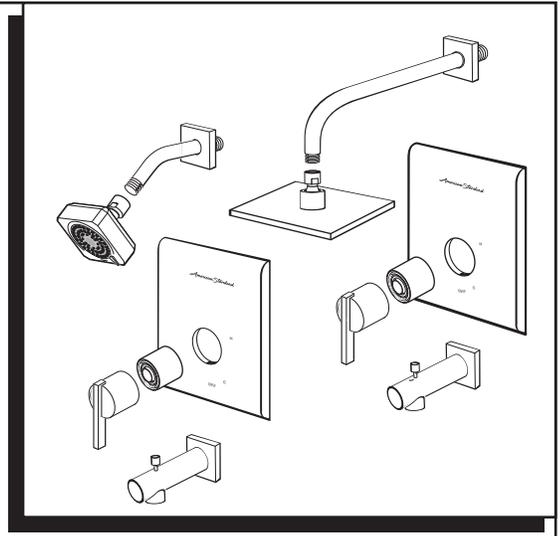
TU18450X Series

Times Square® Pressure Balancing Bath and Shower Trim Kit

Thank you for selecting American Standard... the benchmark of fine quality for over 140 years.

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

For use with shower heads rated at 4.9 L/min (1.3 gpm) or higher.



RECOMMENDED TOOLS



Plumbers' Putty or Caulking



Teflon Tape



Phillips Screwdriver



Flat Blade Screwdriver



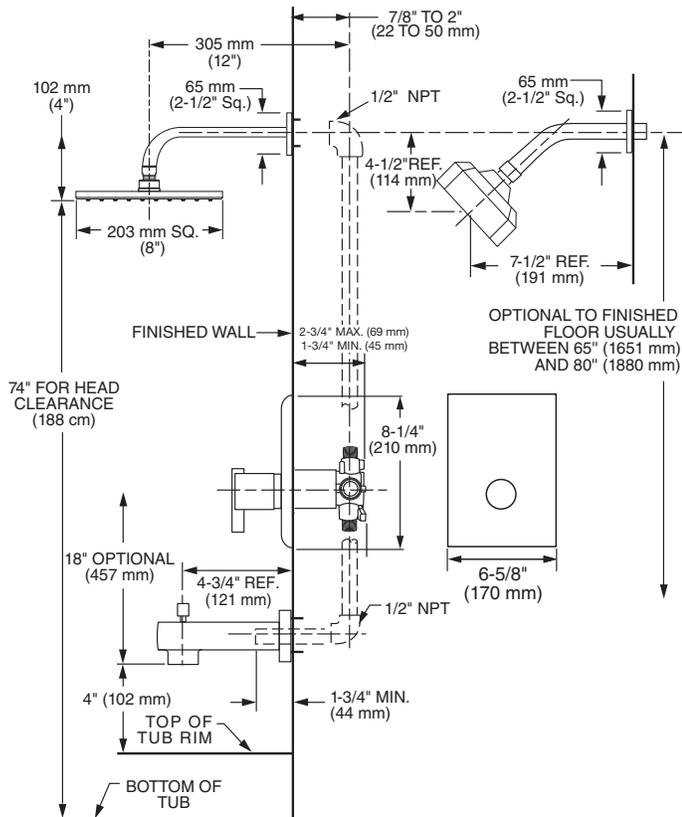
Adjustable Wrench



Channel Locks

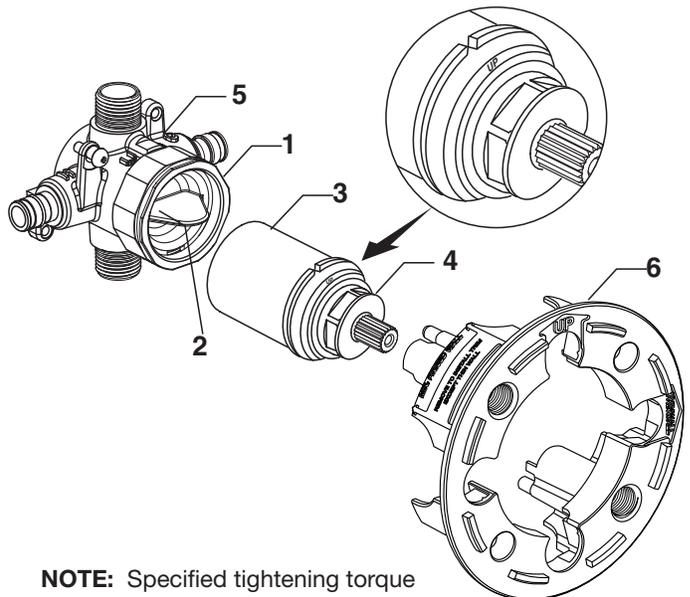
ROUGHING-IN DIMENSIONS

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



1 CARTRIDGE INSTALLATION

- Remove **PLASTER GUARD (6)** (Keep it installed for thin wall Installation).
- Remove **BONNET NUT (1)** by unthreading it Counter clockwise. Remove test **CAP (2)**.
- Remove **PROTECTIVE HOUSING (3)** from **CARTRIDGE (4)**. Install with "UP" text on top.
- Reinstall **BONNET NUT (1)** onto **VALVE BODY (5)** and tighten firmly with 12 Nm or 9 lbs/ft.



NOTE: Specified tightening torque of **BONNET NUT (1)** is critical to assure sealing function.

2 INSTALL VALVE TRIM (STANDARD WALL INSTALLATION)

- **Figure 1.** Push CAP (1) over VALVE CARTRIDGE (2) until seated against stop.
- **Figure 2.** Make sure O-RING (6) is secure within ESCUTCHEON HOLDER (3). Push ESCUTCHEON HOLDER (3) onto CAP (1) and attach with LONG SCREWS (4). Mount ESCUTCHEON SUPPORT (5) to ESCUTCHEON HOLDER (3) with 4 SHORT SCREWS (8).
- **Figure 3.** Install ESCUTCHEON (7) onto CAP (1) and push flush against finished wall. ESCUTCHEON (7) will snap fit onto ESCUTCHEON SUPPORT (5).

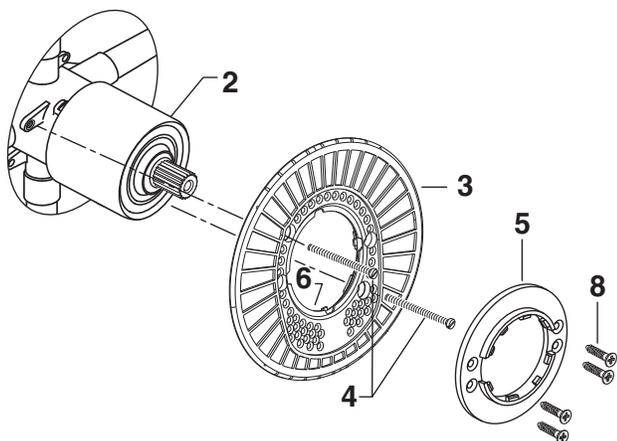


Figure 2.

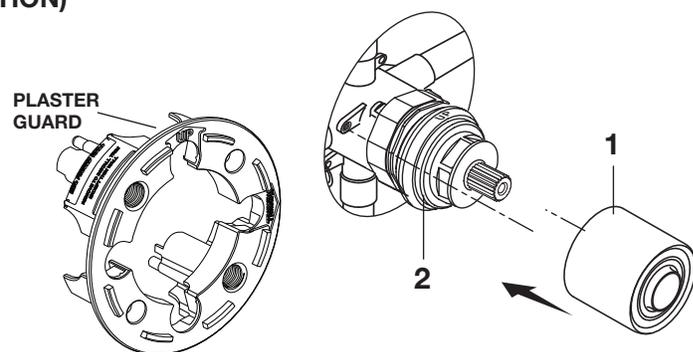


Figure 1.

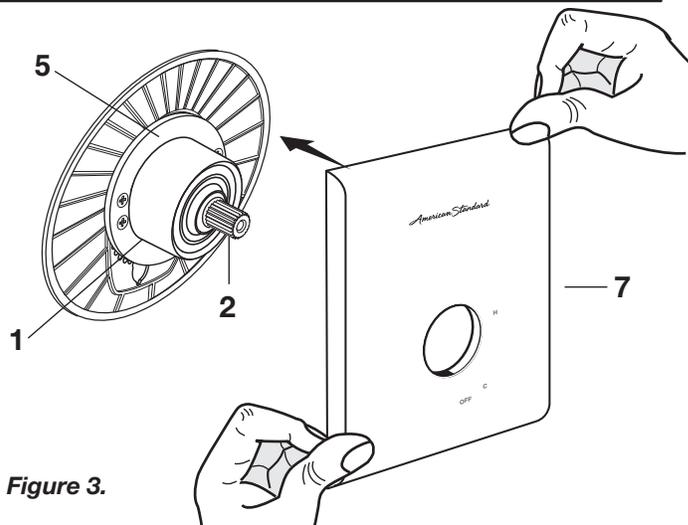


Figure 3.

2a INSTALL VALVE TRIM (THIN WALL INSTALLATION)

Note: Plaster Guard will remain installed for thin wall installation.

- **Figure 1.** Remove SCREWS (7), push CAP (1) over VALVE CARTRIDGE (2) until seated against stop.
Note: Escutcheon Holder must be installed with number facing out on bottom.
- **Figure 2.** Make sure O-RING (5) is secure within ESCUTCHEON HOLDER (3). Push ESCUTCHEON HOLDER (3) onto CAP (1) and attach with LONG SCREWS (4).
- **Figure 3.** Install ESCUTCHEON (6) onto CAP (1) and push flush against finished wall. Escutcheon (6) will snap fit onto ESCUTCHEON HOLDER (3).

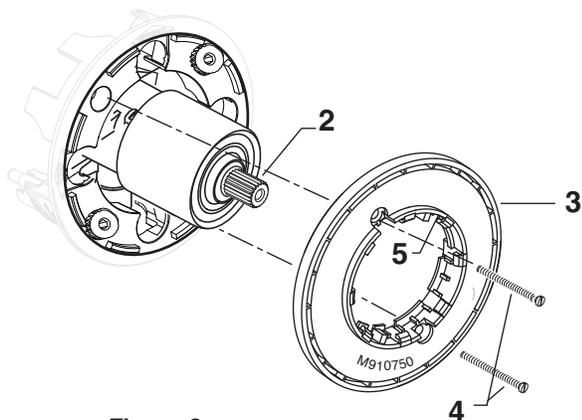


Figure 2.

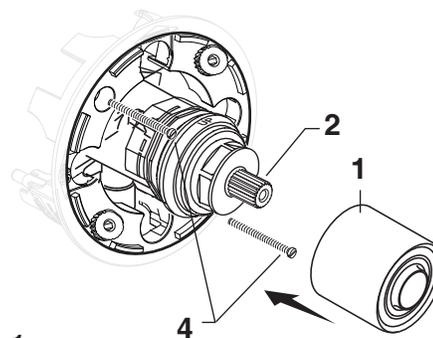


Figure 1.

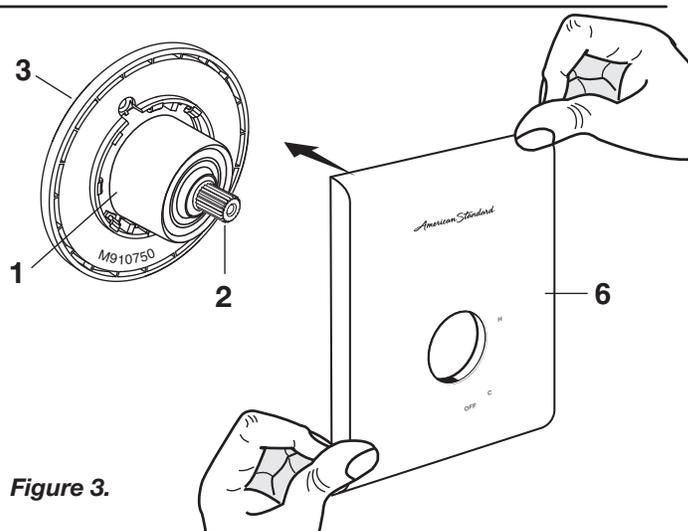
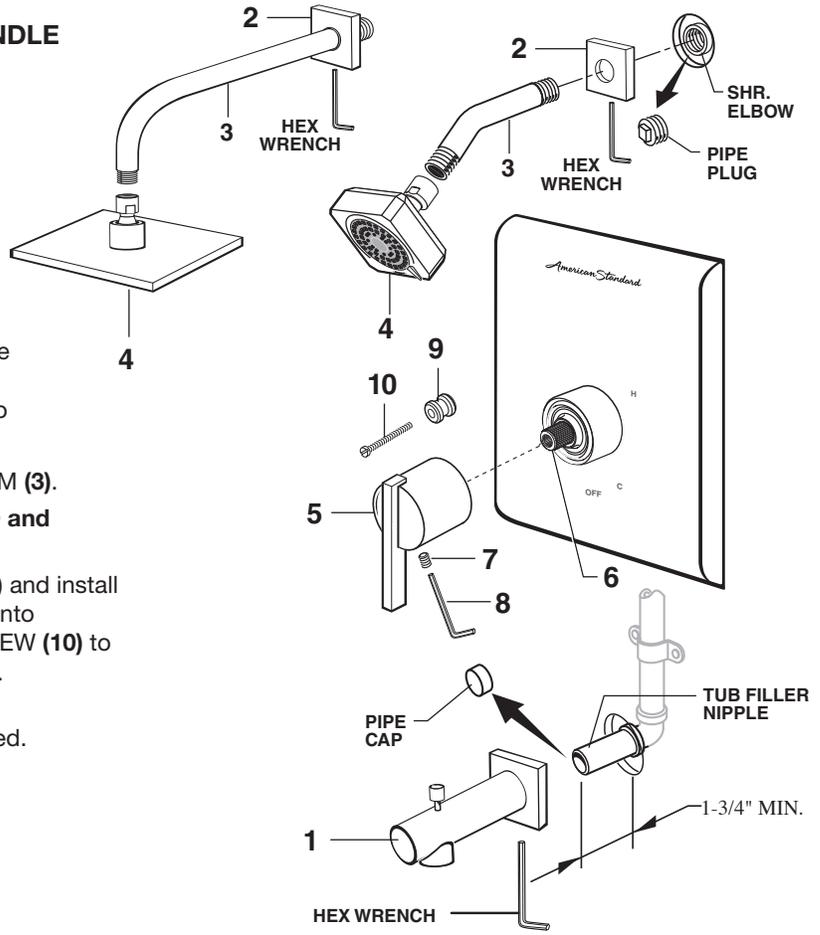


Figure 3.

3 INSTALL, TUB SPOUT, SHOWER HEAD, SHOWER ARM WITH FLANGE AND HANDLE

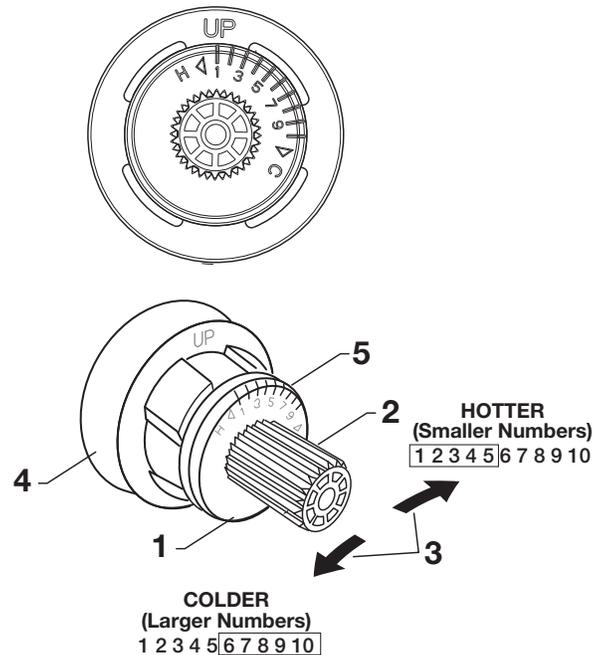
CAUTION Protect finish on SHOWER HEAD and TUB SPOUT when installing.

- Remove pipe cap and plug from shower and tub rough piping.
- Install TUB SPOUT (1) onto tub nipple. **CAUTION: Protect finish on TUB SPOUT when installing.**
- Install SHOWER ESCUTCHEON (2) onto SHOWER ARM (3). Apply sealant or Teflon tape to threads on both ends of SHOWER ARM (3) and thread longer leg of SHOWER ARM (3) into shower elbow.
- Thread SHOWER HEAD (4) onto SHOWER ARM (3). **CAUTION: Protect finish on SHOWER HEAD and ARM when installing.**
- Hold ADAPTER (9) onto CARTRIDGE STEM (6) and install ADAPTER SCREW (10) through ADAPTER (9) into CARTRIDGE STEM (6). Tighten ADAPTER SCREW (10) to secure ADAPTER (9) to CARTRIDGE STEM (6).
- Install HANDLE (5) onto ADAPTER (9). Tighten SET SCREW (7) with HEX WRENCH (8) supplied.



4 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 valve, 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). Pull forward and rotate counterclockwise one number to limit hot water temperature. Use NUMBERS (5) on CARTRIDGE (4) on HOT LIMIT STOP (1) for indication.



5 SERVICE

TO GAIN ACCESS TO VALVE FOR SERVICING

CAUTION Turn off hot and cold water supplies before beginning.

- Remove HANDLE (see step 3 and reverse).
- Remove ESCUTCHEON and CARTRIDGE CAP (see step 1 and reverse).

VALVE LEAKS WHEN SHUT OFF

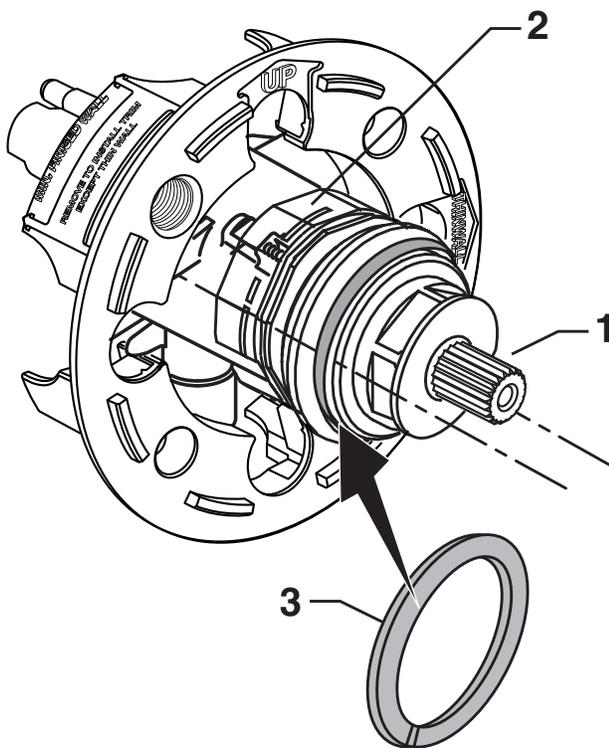
- Remove CARTRIDGE, see STEP 1 and STEP 2 and REVERSE process.
- Clean SEALS on the side of CARTRIDGE. Clean inside sealing surface of VALVE BODY.
- Re-assemble CARTRIDGE. Install trim. Turn on water supply and check for leaks.

REPLACING CARTRIDGE

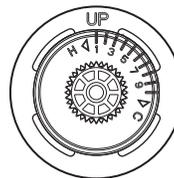
- To remove CARTRIDGE (1), install split WASHER (3) between the ridge on the cartridge and the bonnet nut. (only supplied with replacement cartridge).
- Proceed to unthread BONNET NUT (2) counter clockwise.
Note: CARTRIDGE (1) should be pulling out while unthreading BONNET NUT (2).
- Upon removal of the old Cartridge, install a new cartridge and secure it with BONNET NUT (Hand tighten).

BACK TO BACK INSTALLATION

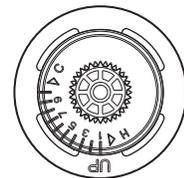
- Remove CARTRIDGE (B) as detailed in steps above.
- Remove PIN (A) from CARTRIDGE (B) by pulling.
- Separate MANIFOLD (C) from CARTRIDGE (B) by pulling.
- Rotate CARTRIDGE (B) 180 degrees and reinstall MANIFOLD (C) with PIN (A).
- The "UP" TEXT (D) should now be facing downward during installation of the CARTRIDGE (B).



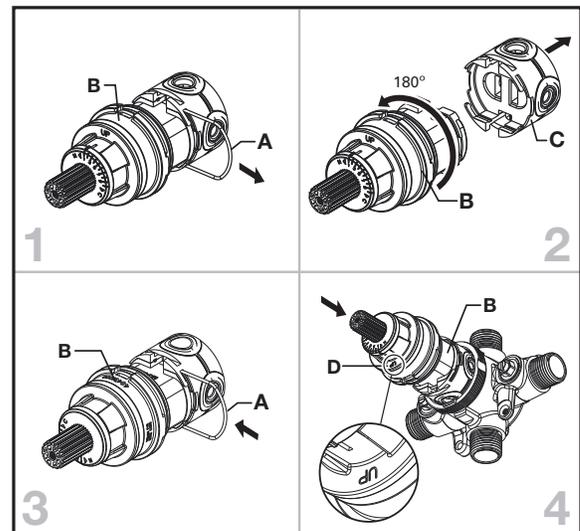
Standard



Back to Back



BACK TO BACK INSTALLATION



6 CARE INSTRUCTIONS:

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

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

American Standard

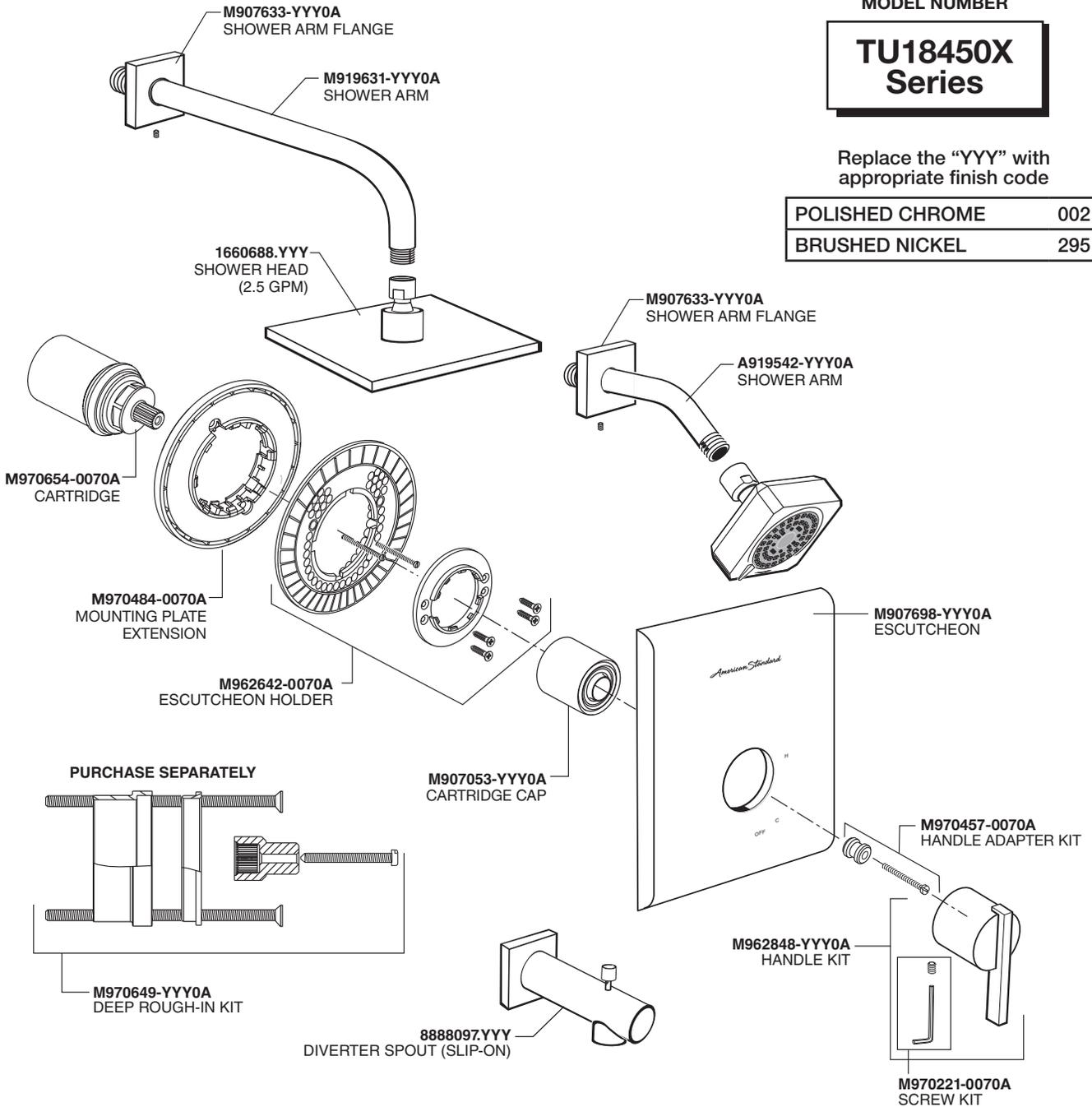
**Times Square®
Pressure Balancing
Bath and Shower
Trim Kit**

MODEL NUMBER

**TU18450X
Series**

Replace the "YYY" with appropriate finish code

POLISHED CHROME	002
BRUSHED NICKEL	295



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



PART OF **LIXIL**