American Standard

INSTALLATION INSTRUCTIONS
TU06450X
TU064501WDXH
TU064502WDXH

Serin®
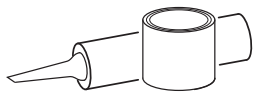## Pressure Balancing Bath and Shower Trim Kit
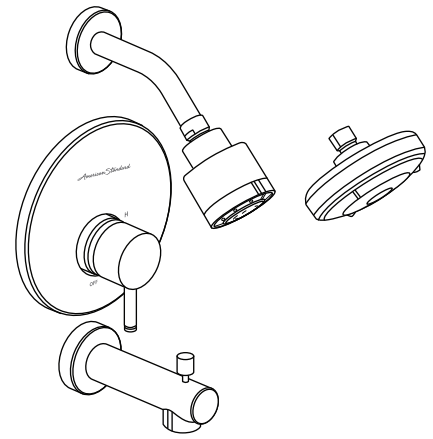
Thank you for selecting American Standard... the benchmark of fine quality for over 140 years.

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.

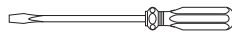## RECOMMENDED TOOLS

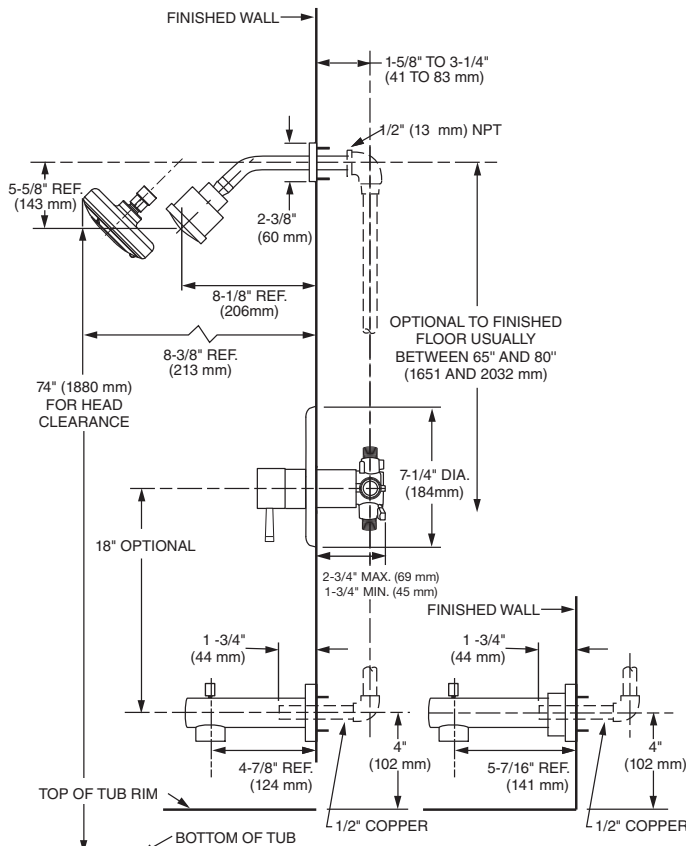Plumbers' Putty or Caulking   Teflon Tape   Phillips Screwdriver   Flat Blade Screwdriver   Adjustable Wrench   Channel Locks


ROUGHING-IN DIMENSIONS

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

FINISHED WALL

1-5/8" TO 3-1/4" (41 TO 83 mm)

1/2" (13 mm) NPT

5-5/8" REF. (143 mm)

2-3/8" (60 mm)

8-1/8" REF. (206mm)

8-3/8" REF. (213 mm)

OPTIONAL TO FINISHED FLOOR USUALLY BETWEEN 65" AND 80" (1651 AND 2032 mm)

74" (1880 mm) FOR HEAD CLEARANCE

7-1/4" DIA. (184mm)

18" OPTIONAL

2-3/4" MAX. (69 mm)
1-3/4" MIN. (45 mm)

FINISHED WALL

1 -3/4" (44 mm)

1 -3/4" (44 mm)

4" (102 mm)

4" (102 mm)

4-7/8" REF. (124 mm)

5-7/16" REF. (141 mm)

TOP OF TUB RIM

BOTTOM OF TUB

1/2" COPPER

1/2" COPPER

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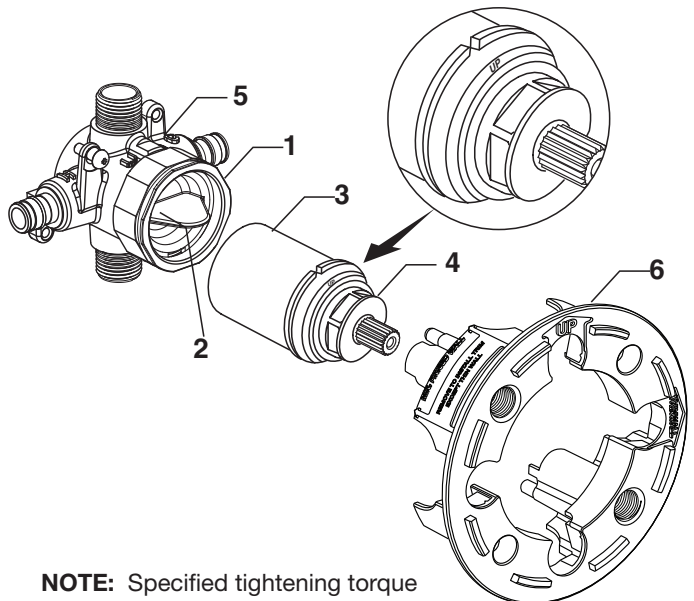
NOTE: Specified tightening torque of BONNET NUT **(1)** is critical to assure sealing function.

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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).
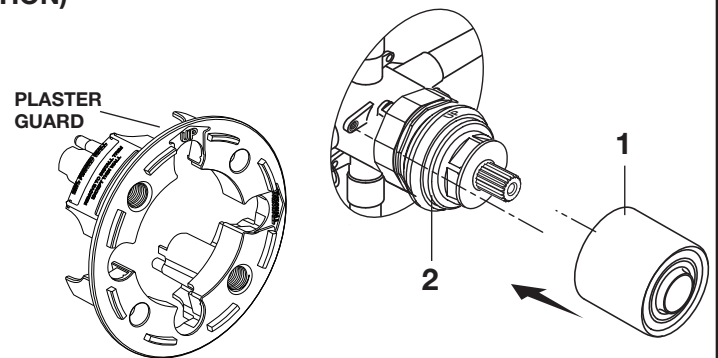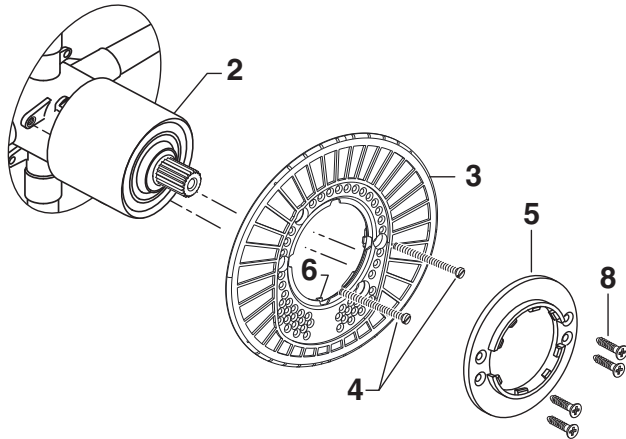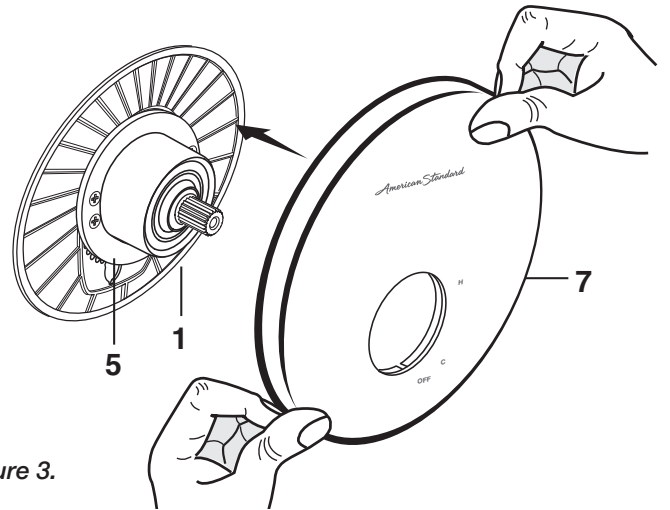
PLASTER GUARD

Figure 1.

Figure 2.

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).
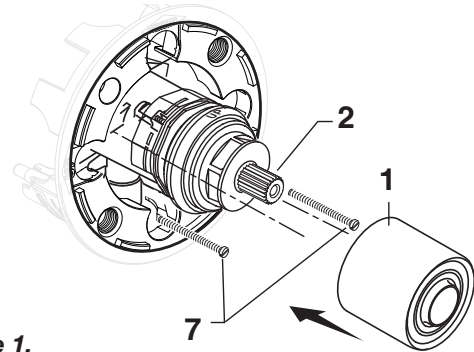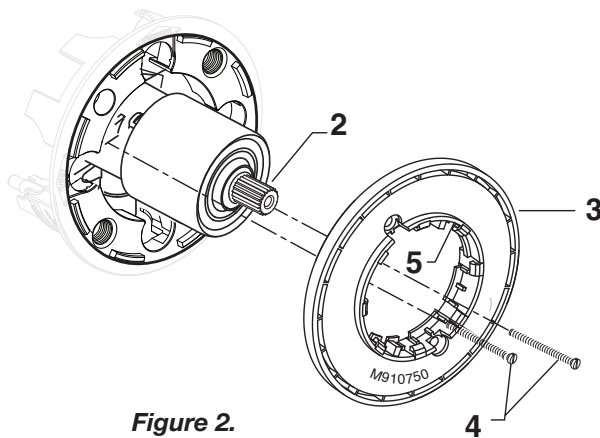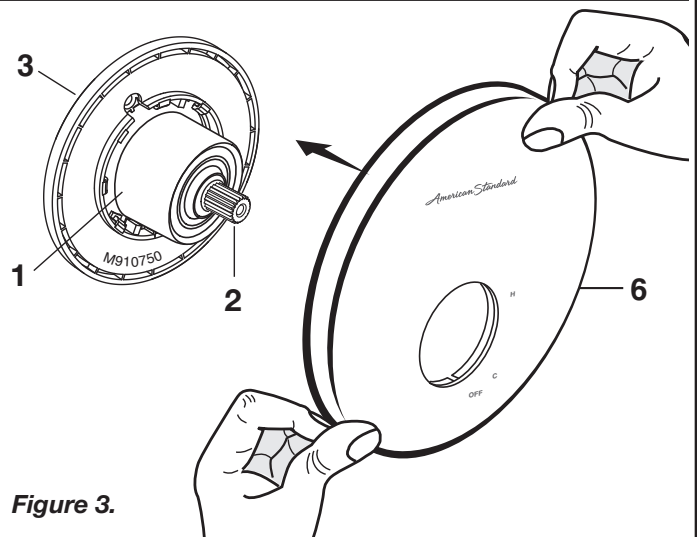
Figure 1.

Figure 2.

Figure 3.

3 **INSTALL, TUB SPOUT, SHOWER HEAD, SHOWER ARM WITH FLANGE**

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

**Note:** Apply sealant or Teflon Tape to shower arm.

- Remove PIPE PLUG and CAP **(1, 2)** from shower pipe and tub filler pipe.

- Install SHOWER ESCUTCHEON **(3)** onto SHOWER ARM **(4)**. Apply sealant or Teflon tape to threads on both ends of SHOWER ARM **(4)** and thread longer leg of SHOWER ARM **(4)** into shower elbow. Thread SHOWER HEAD **(5, 5a)** onto SHOWER ARM **(4)**.

- Install TUB SPOUT **(6, 6a)**. Tighten with HEX WRENCH supplied.
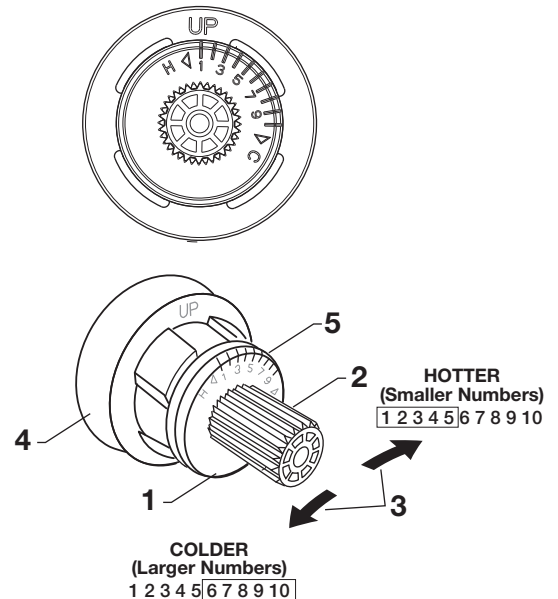
Important: Do not overtighten Set Screw.

APPLY SEALANT OR TEFLON TAPE TO THREADS

1-3/4" (44 mm)

HEX WRENCH
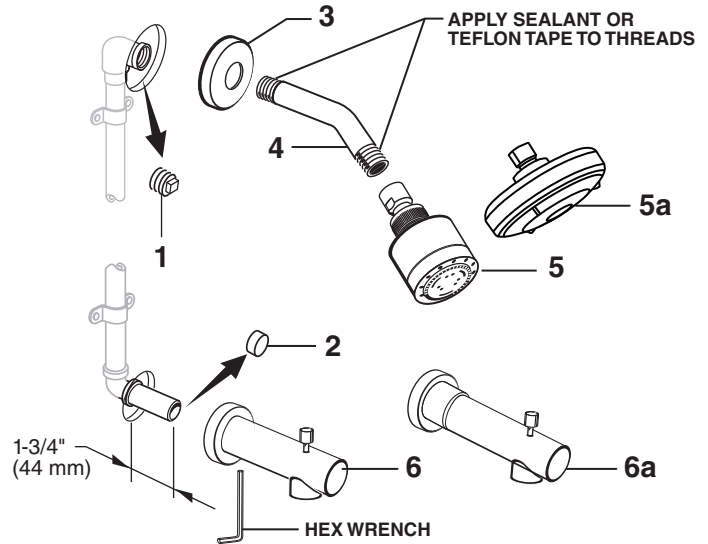
4 **INSTALL HANDLE**

- Hold ADAPTER **(1)** onto VALVE STEM **(2)** and install ADAPTER SCREW **(3)** through ADAPTER **(1)** into VALVE STEM **(2)**. Tighten ADAPTER SCREW **(3)** to secure ADAPTER **(1)** to VALVE STEM **(2)**.

- Install HANDLE BASE **(4)** onto ADAPTER **(1)**. Insert SET SCREW (5) into HANDLE BASE **(4)**. Align HANDLE BASE **(4)** and tighten with HEX WRENCH **(6)** supplied.

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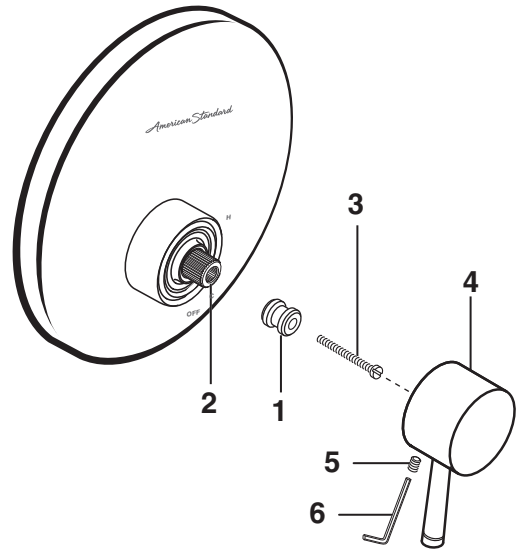
5 **ADJUST HOT LIMIT STOP**

- 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.

UP

HOTTER (Smaller Numbers)
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

COLDER (Larger Numbers)
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

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6 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). as shown.

• 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

• **NOTE:** Must purchase specialized back to back cartridge. (Part number M970640-0070A)

• Remove CARTRIDGE **(1)** as detailed in steps above.

• Install back to back cartridge.
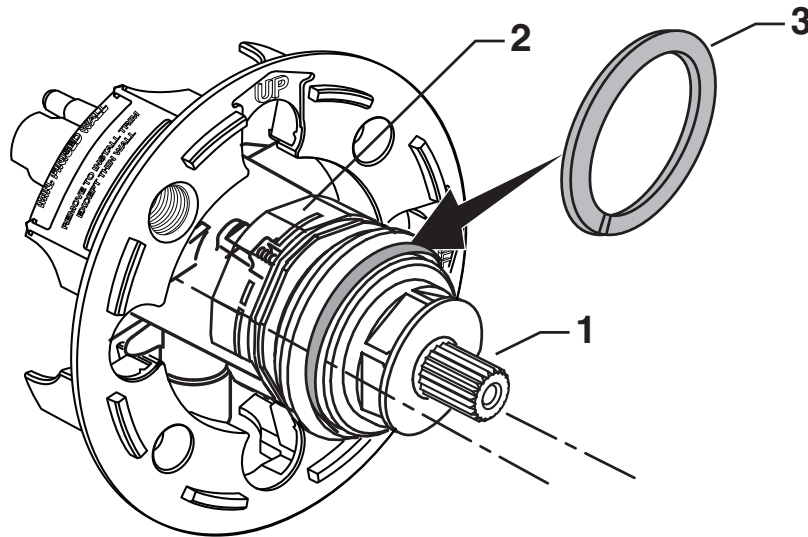
7 CARE INSTRUCTIONS:

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.
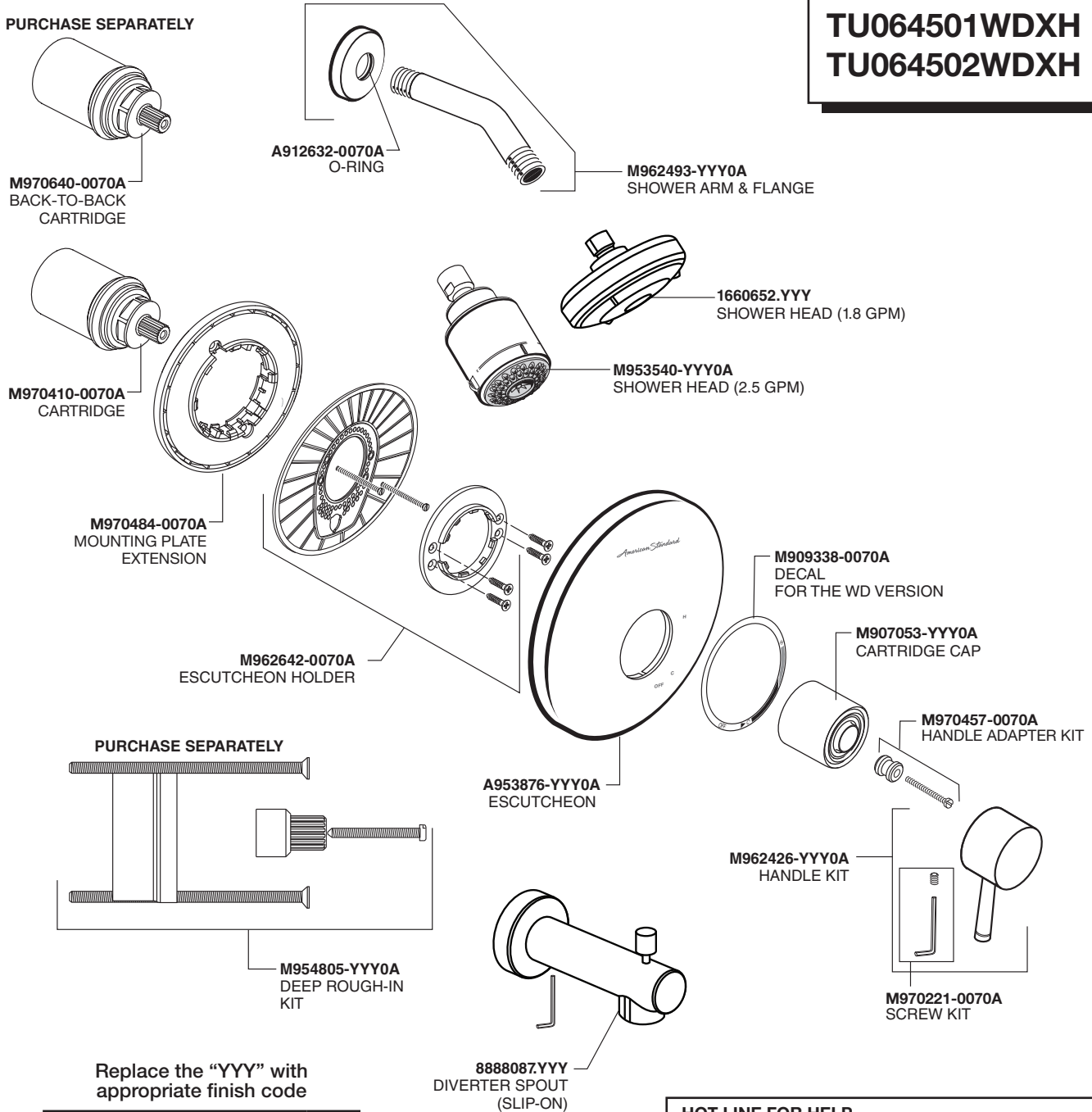
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Serin®
Pressure Balancing Bath and Shower Trim Kit

MODEL NUMBER

TU06450X
TU064501WDXH
TU064502WDXH

PURCHASE SEPARATELY

M970640-0070A
BACK-TO-BACK CARTRIDGE

A912632-0070A
O-RING

M962493-YYY0A
SHOWER ARM & FLANGE

1660652.YYY
SHOWER HEAD (1.8 GPM)

M953540-YYY0A
SHOWER HEAD (2.5 GPM)

M970410-0070A
CARTRIDGE

M970484-0070A
MOUNTING PLATE EXTENSION

M962642-0070A
ESCUTCHEON HOLDER

M909338-0070A
DECAL
FOR THE WD VERSION

M907053-YYY0A
CARTRIDGE CAP

M970457-0070A
HANDLE ADAPTER KIT

A953876-YYY0A
ESCUTCHEON

M962426-YYY0A
HANDLE KIT

M970221-0070A
SCREW KIT

PURCHASE SEPARATELY

M954805-YYY0A
DEEP ROUGH-IN KIT

8888087.YYY
DIVERTER SPOUT (SLIP-ON)

Replace the "YYY" with appropriate finish code

POLISHED CHROME	002
BRUSHED NICKEL	295

PART OF **LIXIL**

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