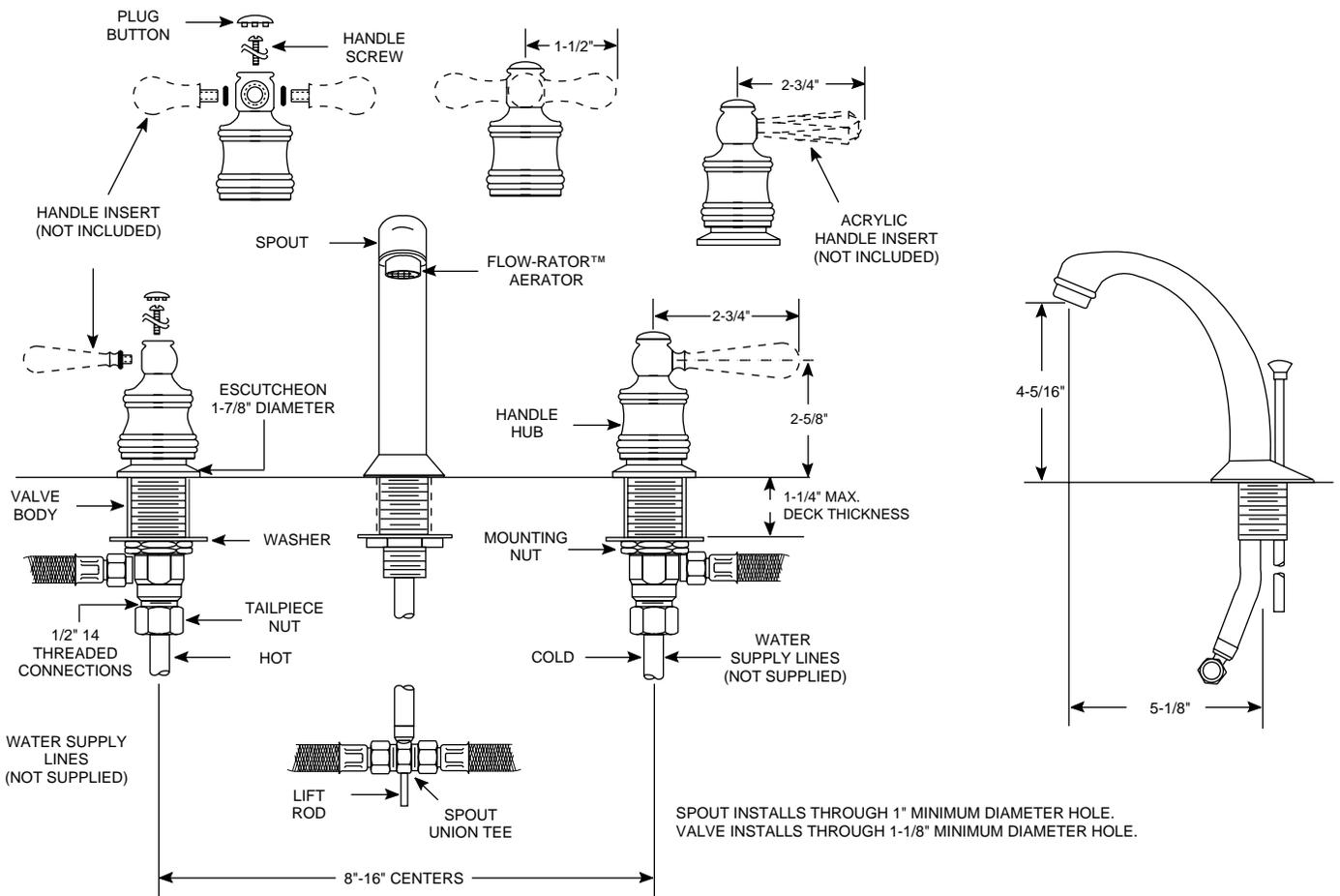




INSTALLATION INSTRUCTIONS

THESE INSTRUCTIONS MUST BE LEFT WITH HOME OWNER

LEVER & CROSS HANDLE  
WIDESPREAD LAVATORY MODELS



**CAUTION:** Always turn water OFF before disassembling the faucet. Open both faucet handles to relieve water pressure and to insure that COMPLETE water shut-off has been accomplished.

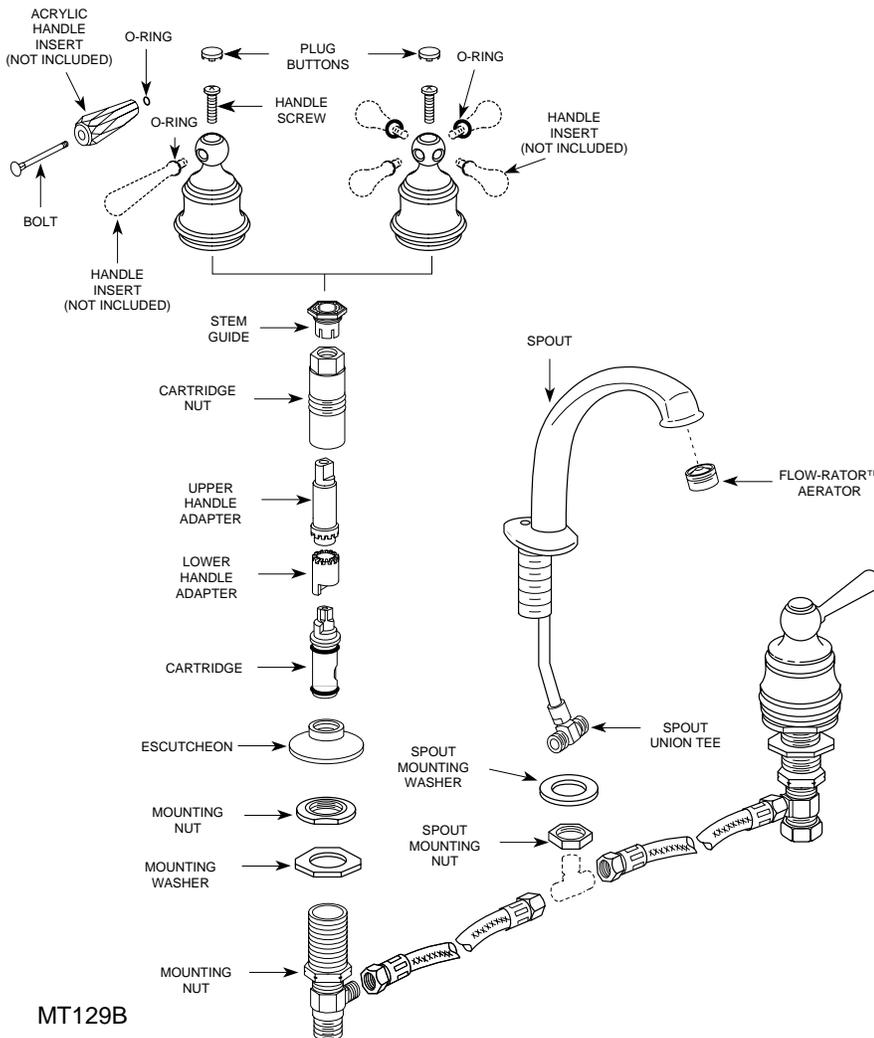
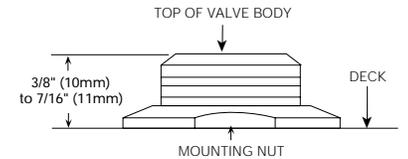
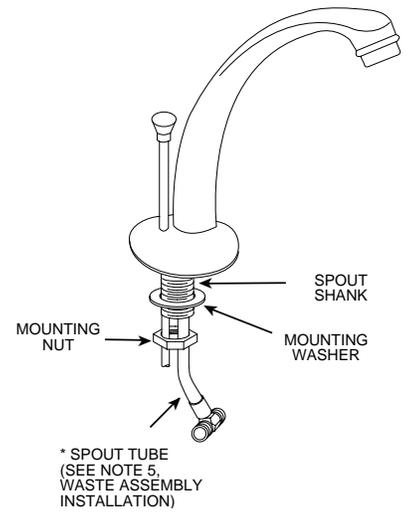
Before turning water on during either rough-in or trim-out, make sure the cartridge retainer nuts are in place. The cartridges and cartridge retainer nuts were properly installed and tested before leaving the factory. Although it is unlikely, it is nevertheless possible that through the handling of the faucet by any number of persons the cartridge retainer nuts may not be properly installed. This should be carefully checked at time of rough-in and trim-out. If the cartridge retainer nuts are not properly installed, water pressure could force the cartridge out of the faucet body. Personal injury or water damage to the premises could result.

# Installation

1. Put plumber's putty (not included) on the bottom of the spout base. Place spout assembly down through the center mounting hole. Install mounting washer then nut to shank from under sink and hand tighten.
2. Remove valve bodies from package. Install one hex mounting nut to each body and turn all the way down. Drop on mounting washers. Attach a flexible hose to each body and tighten.
3. From under the sink, slide valve body assembly marked cold up through hole on right of spout. Install top mounting nut and screw down until top of valve body is 3/8" to 7/16" above top of deck (see illustration at right), screw the bottom mounting nut up against the bottom of the basin and hand tighten. Repeat installation of hot side valve body in other hole.
4. Remove escutcheons from package and fill the recess on bottom side with plumber's putty (not included). Screw onto top of valve bodies and hand tighten until bottomed out.
5. Connect flexible hoses to spout "T" and tighten. Install drain lift rod and knob assembly through hole in spout base. To make sure it moves freely, position valve bodies so hoses are clear of lift rod and free of kinks. Secure valve bodies in place by tightening bottom mounting nuts with basin wrench. Hold the valve bodies from turning by using another wrench on valve body flats. Position spout and secure by tightening mounting nut.

**NOTE: If lift rod binds against spout union tee, spout tube may be bent toward front of sink slightly to clear lift rod. Remove lift rod assembly and set aside for later installation.**

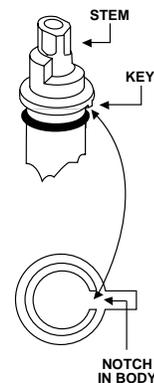
6. Screw handle inserts (not furnished) into handle hubs, temporarily install handle hubs without screws and rotate hot side clockwise and cold side counterclockwise until they stop. To adjust handle orientation; note handle position, remove handle, pull up on the upper handle adapter, replace the handle without screw and turn to the desired position, push down on handle hub to reengage the upper and lower handle adapter, install handle screw and tighten firmly, now install plug buttons.
7. Install waste assembly, see Lift Rod and Waste Assembly, then connect valve bodies to water supply lines, do not turn on water at this time, faucet flushing is required see Flushing.
8. Check system for leaks once the installation is completed. If handle rotation is reversed, turn off water supplies and open handles to alleviate pressure. Remove handle hub, cartridge nut, and upper handle adapter. Lift up and turn lower handle adapter 180°. Make sure both cartridge nuts are secure before turning water on.



# Flushing

Pipe chips, sand, stones, and other solids found in new plumbing can damage the sealing surface of the faucet cause a leak. To avoid damage, DO NOT TURN ON WATER until instructed below:

1. Turn on both hot and cold water supply valves and allow the water to run for 30 seconds.
2. Turn off hot and cold water supply valves and allow the water to drain for 30 seconds.
3. Turn on hot and cold cartridges, unscrew the aerator from the spout and clean any debris from the aerator screen.
4. Turn on the aerator and check the system for leaks.
5. If handle rotation is reversed see Disassembly, note CAUTION, and steps 1 and 2, then lift up and turn the lower handle adapter in place. Replace upper handle adapter, replace cartridge nut and guide as instructed in step 5 of Reassembly, check for leaks and reinstall handle parts.



# Disassembly

**CAUTION: Turn OFF BOTH water supplies and open BOTH faucet handles to relieve water pressure and to insure that COMPLETE water shut-off has been accomplished.**

1. Remove the plug button, handle screw, handle hub.
2. Loosen the cartridge nut with an adjustable wrench and remove it and the stem guide as a unit together with the upper handle adapter.
3. Set aside the cartridge nut and stem guide and with the handle adapter installed, reassemble handle hub with handle screw and tighten.
4. Grasp handle in the middle and pull cartridge STRAIGHT UP and out of the valve body.

# Reassembly

**CAUTION: Failure to follow these instructions can cause a faulty installation or damage the new cartridge.**

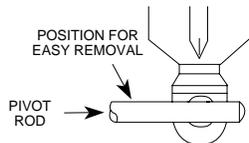
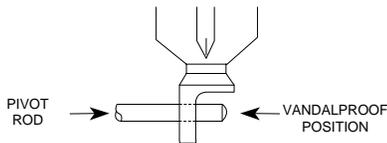
1. With the cartridge nut removed, assemble the handle adapter and handle to the new cartridge and tighten handle screw. This will aid in locating the cartridge properly in the valve body.
2. Rotate the cartridge stem so hole in piston lines up with hole in outer shell.
3. Drop the cartridge into the valve body and press down.
4. Now press down firmly while rotating handle counterclockwise  $\curvearrowright$ . This will align the "KEY" on the cartridge with the "NOTCH" in the valve body. When the key enters the notch you will feel it drop in and the cartridge will be in place. To be certain, rotate the handle clockwise  $\curvearrowleft$  and then counterclockwise  $\curvearrowright$  with gentle force. You should feel the handle stop in both directions. If so, the cartridge is in place. **Do not turn on water yet.**
5. Remove handle screw and handle hub, install cartridge nut with stem guide over the upper handle adapter, start by hand DO NOT CROSS THREAD. Firmly tighten cartridge nut and stem guide using adjustable wrench.
6. Reinstall handle hubs, screw and plug buttons (follow illustration on previous page). You are now ready to turn the water back on.

# Lift Rod and Waste Assembly

1. Thoroughly clean around drain opening in lavatory sink. Apply 1/4" bead of plumber's putty (not furnished) around the bottom side of seat.
2. Apply pipe joint compound or Teflon tape (not furnished) to top threaded end of the drain body. Slip drain body up through the drain opening and screw seat on the drain body.
3. Position the drain body (with pivot rod opening extending rearward) and tighten mounting nut until the drain body is snug. Wipe excess plumber's putty from the seat area. Apply pipe joint compound (not furnished) to top threaded end of tailpipe and screw into the drain body. Tighten firmly by hand.
4. Position drain plug in either of the following ways:
  - A. VANDALPROOF - This design is to prevent unauthorized removal of the drain plug. Unscrew the pivot nut and remove the pivot rod. Inside the drain body, position the pivot rod through the drain plug hole as shown in the illustration below. Screw the pivot nut back on the drain body. **DO NOT OVER TIGHTEN.**

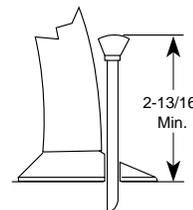
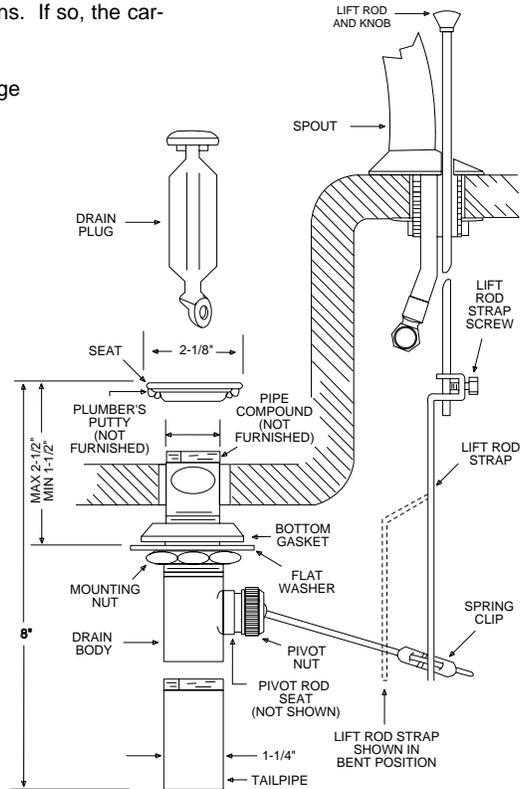
A. VANDALPROOF

B. EASY REMOVAL



B. EASY REMOVAL - This design is for quick removal of drain plug for cleaning. Just drop in the drain plug as shown in the illustration above.

5. Install lift rod, with knob attached, into back of spout as shown. Secure lift rod strap to bottom end of lift rod as shown. With pivot rod in the down position, assemble strap to pivot rod using the spring clip. The strap will have to be bent to reach the pivot rod on some installations. Adjustment may be required so lift rod clears spout tube and connection (i.e., bend spout tube outwards).
6. With the drain plug in full open position adjust lift rod and knob to clear faucet and tighten lift rod strap screw.



**CAUTION: To avoid lift rod knob from rubbing against spout, do not install rod any lower than dimension shown.**

## Cleaning and Care Instructions for Special Finish Models:

All that is necessary to clean these faucets is to wipe them with a soft damp cloth such as terrycloth. Warm water will remove dry water spots. **CAUTION: DO NOT** use cleansers which contain abrasives or harsh chemicals. **NEVER** use alcohol or other organic solvents. A high quality, non-abrasive wax polish applied occasionally, will help to reserve the deep tones of the finish.

# Consumer Information

Faucets made of leaded brass alloys may contribute small amounts of lead to water that is allowed to stand in contact with the brass. The amount of lead contributed by any faucet is highest when the faucet is new. The following steps may reduce potential exposure to lead from faucets and other parts of the plumbing system:

- Always run the water for a few seconds prior to use for drinking or cooking.
- Use only cold water for drinking or cooking.
- If you wish to flush the entire plumbing system of water that has been standing in the pipes or other fittings, run the cold water until the temperature of the water drops, indicating water coming from the outside main.
- If you are concerned about lead in your water, have your water tested by a certified laboratory in your area.



## HELPLINE:

For answers to any product, installation, replacement parts or warranty questions, call our consumer helplines.

In the U.S., toll free:  
**1-800-321-6636**

In Canada call:  
**Toronto, 905-829-3400**  
**Rest of Canada, 1-800-465-6130**



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