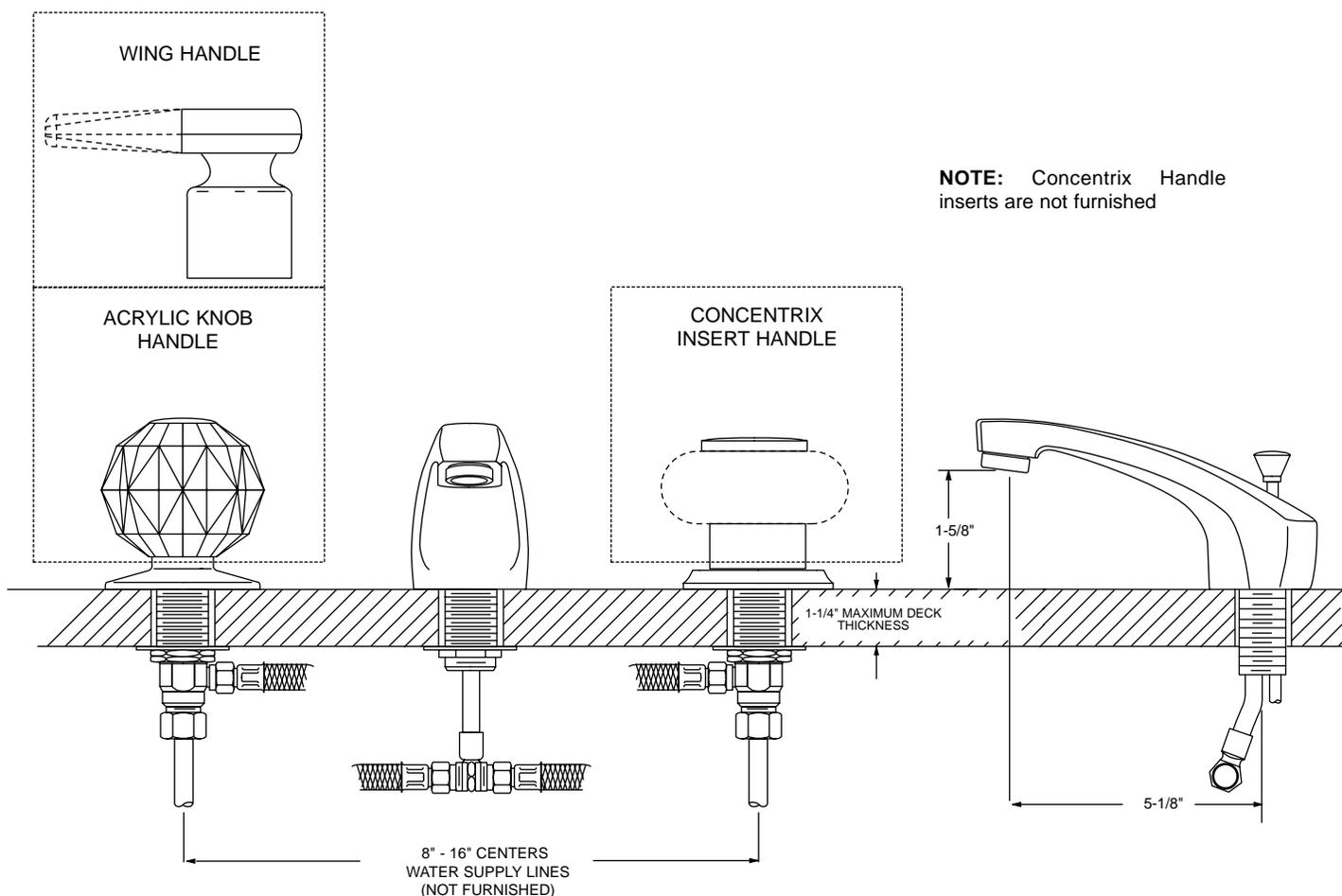




INSTALLATION INSTRUCTIONS

THESE INSTRUCTIONS MUST BE
LEFT WITH HOMEOWNER

WIDESPREAD LAVATORY MODELS



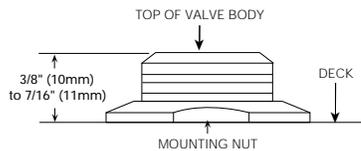
SPOUT INSTALLS THROUGH 1" MINIMUM DIAMETER HOLE.
VALVE INSTALLS THROUGH 1-1/8" MINIMUM DIAMETER HOLE.

CAUTION: Always turn water OFF before disassembling the faucet. Open 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 that 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 valve 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 Instructions

1. Fill the recess under the spout and handle escutcheons with plumber's putty (not furnished). Place spout down through the center hole. Put spout mounting washer over spout shank. Screw on the spout mounting nut and make hand-tight.
2. Turn bottom mounting nuts on valve bodies all the way down, for basin clearance, and drop on mounting washers. With the valve bodies and supply hose assembled under the sink, slide the bodies up through the holes. Screw top mounting nuts down until top of valve bodies are 3/8" to 7/16" from top of deck (see illustration below).



NOTE: To properly install handle escutcheon and handle, valve bodies must be above deck at dimensions shown.

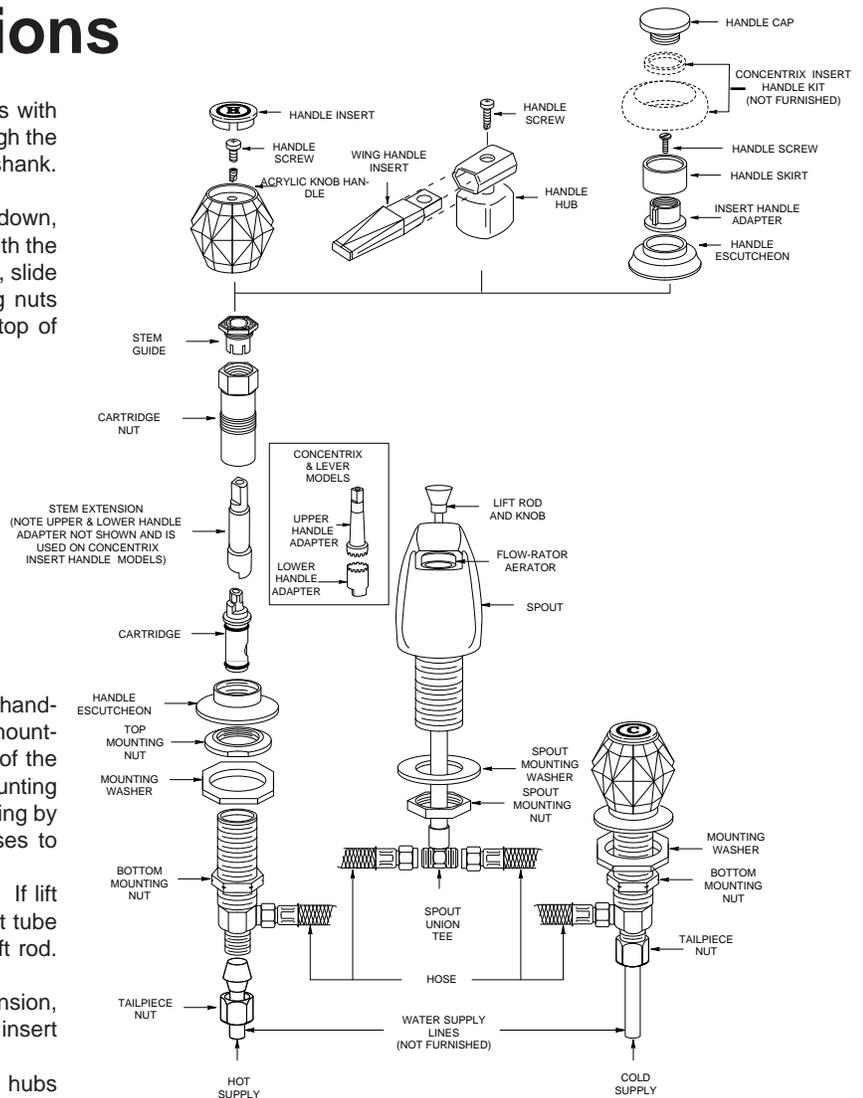
3. Screw the handle escutcheons onto valve bodies and hand-tighten them until they bottom out. Screw the bottom mounting nuts and mounting washers up against the bottom of the basin and hand-tighten. Make final tightening of all mounting nuts with a basin wrench. Hold the valve body from turning by using another wrench on valve body flats. Install hoses to spout union tee.
4. Test the lift rod to make sure it operates freely. **NOTE:** If lift rod binds against spout union tee, carefully bend spout tube slightly outward (as illustrated on front page) to clear lift rod. (Do not twist spout union tee).
5. **FOR KNOB HANDLE:** Install handle onto stem extension, install handle screw and tighten securely. Snap handle insert in place.

FOR WING HANDLE: Temporarily install wing handle hubs without screws and rotate hot side clockwise and cold side counterclockwise until they stop. To adjust handle orientation; note wing handle position, remove handle, pull up on the upper handle adapter, replace the wing handle without screw and turn to the desired position. Push down on wing handle hub to reengage the upper and lower handle adapter, install handle insert making sure the o-ring is in place and the notched side is up. Insert handle screw and tighten securely.

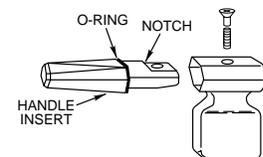
FOR CONCENTRIX INSERT HANDLE: Install insert handle adapter onto upper handle adapter. Install handle screw and tighten securely. Place skirt over insert handle adapter. Install handle insert (not supplied) with the notch to the bottom, the notch engages the hub on the insert handle adapter. It may be necessary to adjust handle orientation when the instruction for WING HANDLE MODELS to achieve desired orientation, then install handle screw and tighten securely. Place gasket in the recess of the handle cap and screw the cap in place.

6. Make final tightening of all mounting nuts from below with a basin wrench. Hold valve bodies from turning by using another wrench on valve body flats. Install water supplies onto valve body using tailpiece nuts supplied. Hold body by the wrench flats. Make this joint wrench tight. Installation is now complete. Check system for leaks.

If handle rotation is reversed for wing handles see Disassembly, note CAUTION, and follow steps 1 and 2 then lift up and turn the lower handle adapter 180° and replace. Replace upper handle adapter, replace cartridge nut and stem guide as instructed in step 4 of Reassembly, check handle orientation and reinstall handle parts.



Refer to these illustrations for assembly and disassembly on the following page.



Flushing Instructions

IMPORTANT: Pipe chips, sand, stones, and other solid objects can damage the sealing surface of the faucet cartridge and cause a leak. To avoid damage, **DO NOT TURN ON SUPPLY VALVES** until instructed below.

1. After installing and connecting your new faucet, open both hot and cold cartridges.
2. Turn on both hot and cold water supply valves and allow the water to run for 15 seconds.
3. Turn off the hot and cold cartridges, unscrew the aerator from the end of the spout and clean any debris from the aerator screen.
4. Replace the aerator and check the system for leaks.

Disassembly

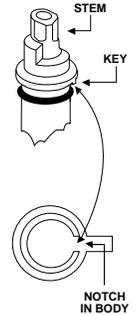
CAUTION: Turn OFF BOTH water supplies and open BOTH faucet handles to relieve water pressure and to insure that COMPLETE water shut-off has been accomplished.

1. Remove handle parts and handle screw, follow the installation instructions step 5 in reverse order.
2. Loosen the cartridge nut with an adjustable wrench and remove it and the stem guide as a unit together with the stem extension (upper handle adapter for Concentrix or Wing Handles).
3. Set aside the cartridge nut and stem guide and with the stem extension (upper and lower handle adapter) installed, reassemble handle parts and tighten.
4. Grasp the handle and pull the cartridge STRAIGHT UP and out of the valve body.

Reassembly

CAUTION: Failure to follow these instructions can cause personal injury or water damage to the premises, or could result in a faulty installation or damage the new cartridge.

1. Assemble the handle parts and the stem extension (upper and lower handle adapter) to the new cartridge with the handle screw. Turn stem to the ON position, waterway holes in cartridge are lined up.
2. Insert the cartridge straight into the valve body.
3. Now press down firmly while rotating handle counterclockwise. 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 and then counterclockwise with gentle force. You should feel the handle stop in both directions. If so, the cartridge is in place. **Do not turn the water on yet.**
4. Remove handle screw and handle knob (wing handle or insert handle adapter) install cartridge nut with stem guide over the stem extension, (upper handle adapter) start by hand DO NOT CROSS THREAD. Firmly tighten cartridge nut and stem guide using adjustable wrench.
5. Replace handle parts, follow installation instructions step 5. Turn on water supplies.



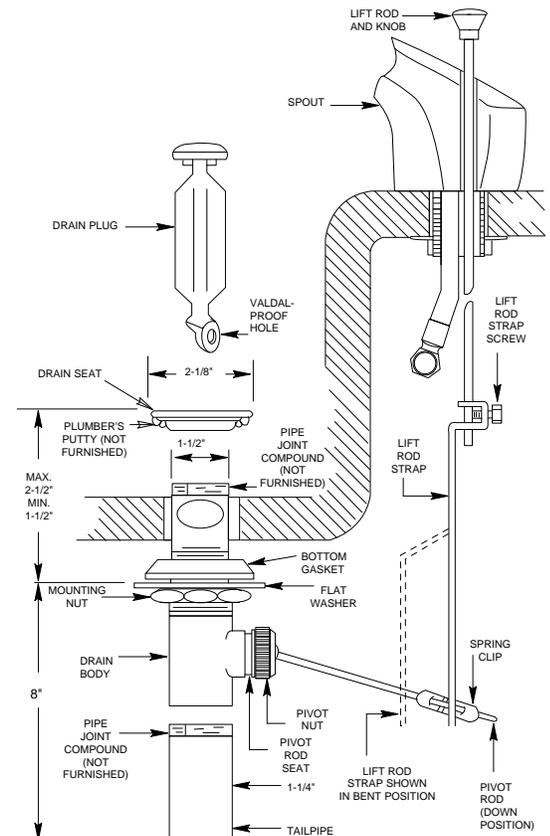
FOR LOCATING CARTRIDGE PROPERLY

Lavatory Lift Rod and Waste Assembly

1. Thoroughly clean around drain opening in lavatory sink. Apply 1/4 inch bead of plumber's putty (not furnished) around the bottom side of drain seat (as shown).
2. Apply pipe joint compound (not furnished) to top threaded end of the drain body. Slip drain body up through the drain opening and screw seat onto 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 drain seat area. Apply pipe joint compound (not furnished) to top threaded end of tailpipe and screw into 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 seat and pivot rod. Inside the drain body position the pivot rod through the drain plug hole as shown in the illustration below. Place the pivot rod seat back into the drain plug hole and screw the pivot nut back on the drain body. **DO NOT OVERTIGHTEN.**
 - 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 below.



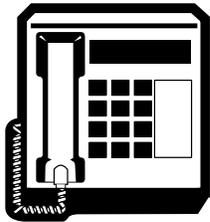
5. Install lift rod, with knob attached, into top of spout as shown. Secure lift rod strap to bottom end of lift rod as shown. With pivot rod in the down position, assemble strap to pivot rod using the spring clip. The strap will have to be bent to reach the pivot rod on some installations. Adjustment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



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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