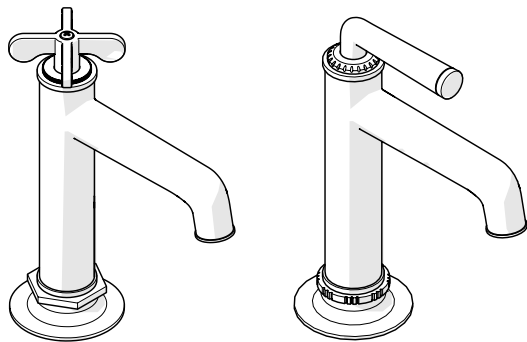


INSTALLATION GUIDELINES

ONE HOLE DECK MOUNTED LAVATORY FAUCET

HENRY OR HENRY CHRONOS ONE HOLE LAVATORY FAUCET WITH HANDLE



STYLES		
HLS401 [SHOWN]	HLS402	CLS411 [SHOWN]
CLS414	CLS415	

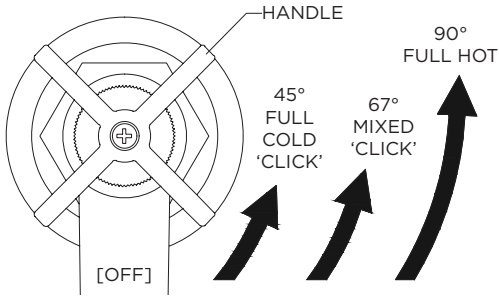
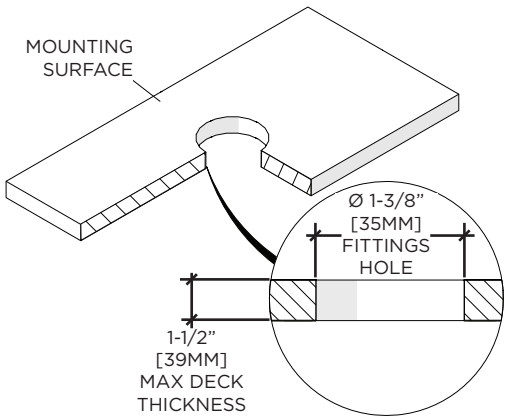
IMPORTANT:

- To ensure this product is installed properly, you must read and follow these guidelines.
- The owner/user of this product must keep this information for future reference.
- This product must be installed by a professional licensed contractor.
- Be sure your installation conforms to all federal, state, and local codes. In the State of Massachusetts, all installations must comply with the rules and regulations set forth within 248 CMR.
- Inspect this product to ensure you have all the parts required for proper installation.
- This product is **sold partially** assembled but shown fully disassembled for illustrative and service purposes only.
- Flushing the SUPPLY VALVES (**sold separately**) prior to installing the LAVATORY FAUCET is recommended. Flushing can prevent damage to the CARTRIDGE and other internal components.
- Use only a strap wrench or protected/smooth-jaw wrench on any finished surface.
- The use of certain plumber's putty may stain stone or tile surfaces.
- If further assistance is required, please contact Product Support at 1-800-927-2120 Monday through Friday, 8am - 6pm EST.

TECHNICAL DETAILS:

DETAIL	SPECIFICATION
DRAIN DEPTH	3/8" [10mm] MINIMUM
	2" [51mm] MAXIMUM
DRAIN HOLE DIAMETER	Ø1-1/2" [38mm]
DRAIN STYLE	PUSH-TOUCH
INLET CONNECTION	3/8" COMPRESSION CONNECTOR HOSES †
SPOUT REACH	5-1/4" [133mm]
WATER PRESSURE	20psi [1.5 bar] MINIMUM
	85psi [6.0 bar] MAXIMUM
WATER PRESSURE RECOMMENDED	45psi [3.0 bar]

† For **INTERNATIONAL USE ONLY**, two UNUK08 9/16"-24 UNEF MALE x 3/8" FEMALE BSPP ADAPTERS and RUBBER WASHERS are provided.



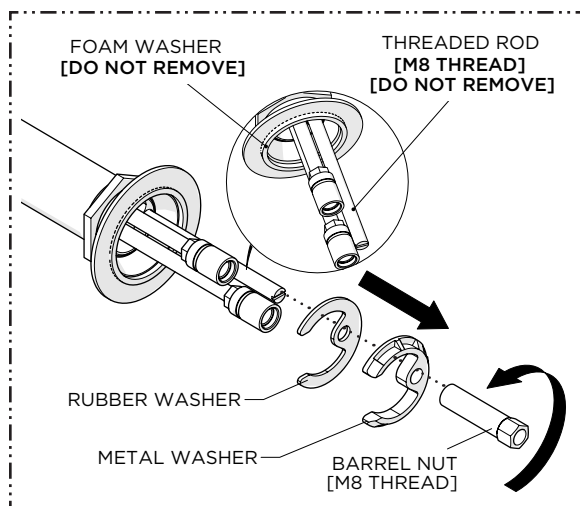
HANDLE OPERATION:

- This product is equipped with a PROGRESSIVE MIXING CARTRIDGE which incorporates tactile feedback.
 - The user will feel slight haptic bumps as they operate the HANDLE.
 - These bumps indicate when the CARTRIDGE is at full cold and warm water temperatures.
- The HANDLE rotates a 1/4 turn counterclockwise through cold, warm, and hot water temperatures as shown above.

INSTALLATION GUIDELINES

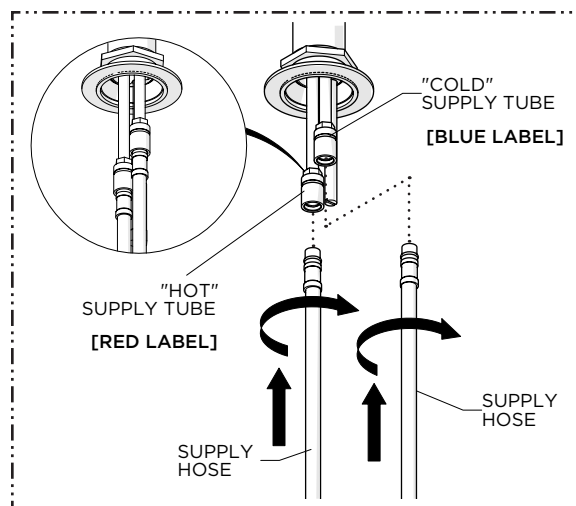
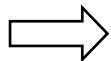
ONE HOLE DECK MOUNTED LAVATORY FAUCET

WATERWORKS



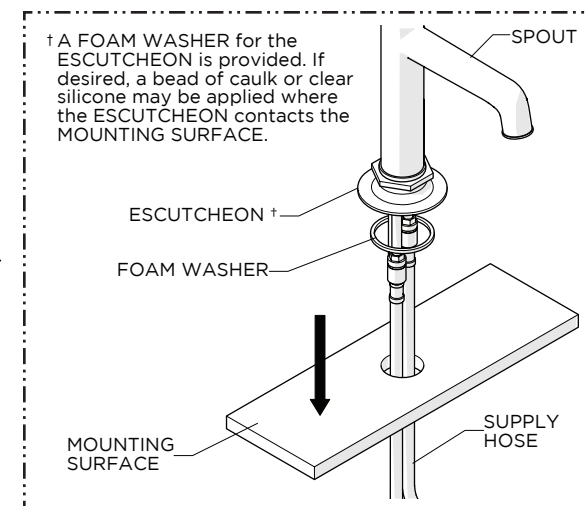
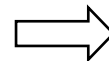
1. Remove the BARREL NUT, METAL WASHER, and RUBBER WASHER from the THREADED ROD.

NOTE: Do **NOT** remove the THREADED ROD or FOAM WASHER beneath the ESCUTCHEON.

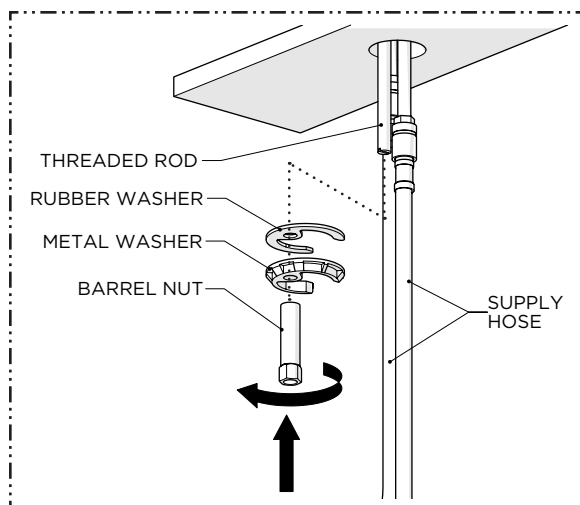


2. Thread and securely tighten the SUPPLY HOSES onto the SUPPLY TUBES on the SPOUT.

NOTE: The HOSES are M10 x 3/8" COMPRESSION CONNECTOR HOSES and the TUBES are marked BLUE for cold and RED for hot.

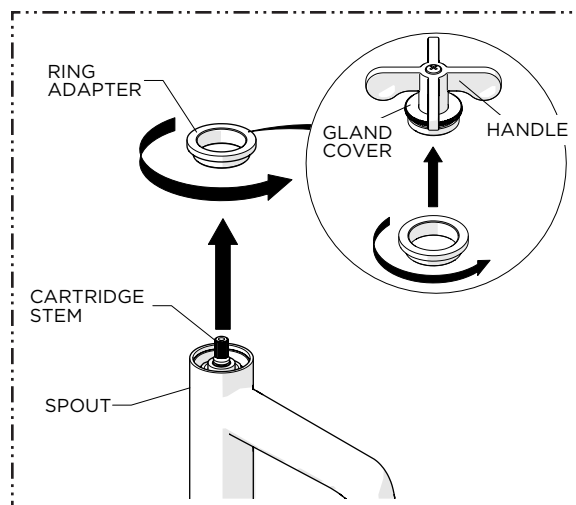
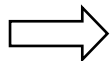


3. Insert the SUPPLY HOSES through the hole on the MOUNTING SURFACE making sure the FOAM WASHER provided is beneath the ESCUTCHEON.

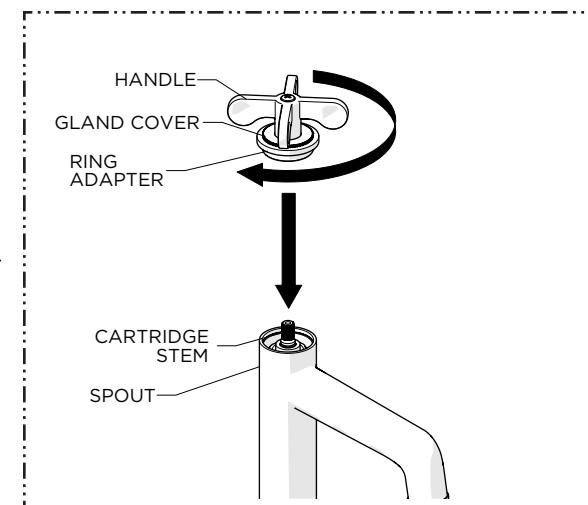
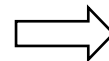


4. Slide the RUBBER and METAL WASHERS back onto the THREADED ROD then thread and securely tighten the BARREL NUT onto the ROD.

NOTE: Ensure the WASHERS fit properly around the TUBES and HOSES.



5. Unthread and remove the RING ADAPTER from the SPOUT, then thread the ADAPTER onto the GLAND COVER until snug.

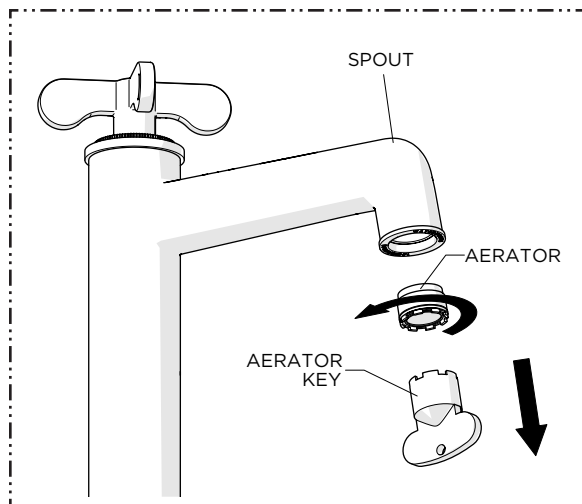


6. With the HANDLE held horizontally thread the RING ADAPTER into the SPOUT until snug.

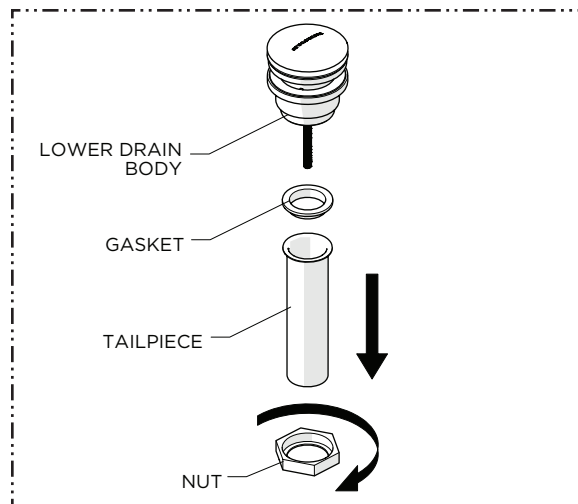
INSTALLATION GUIDELINES

ONE HOLE DECK MOUNTED LAVATORY FAUCET

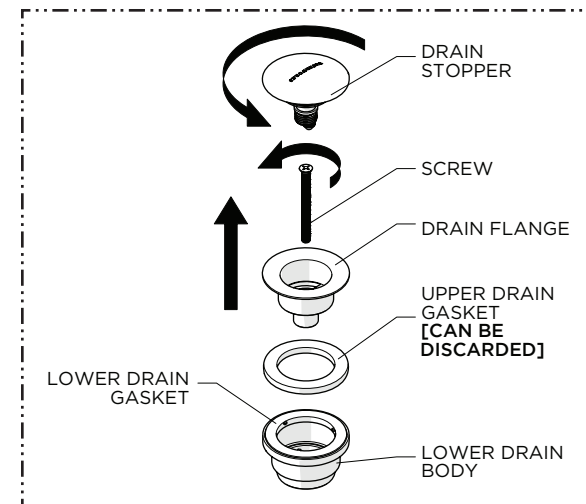
WATERWORKS



7. Remove the AERATOR from the SPOUT using the AERATOR KEY provided.

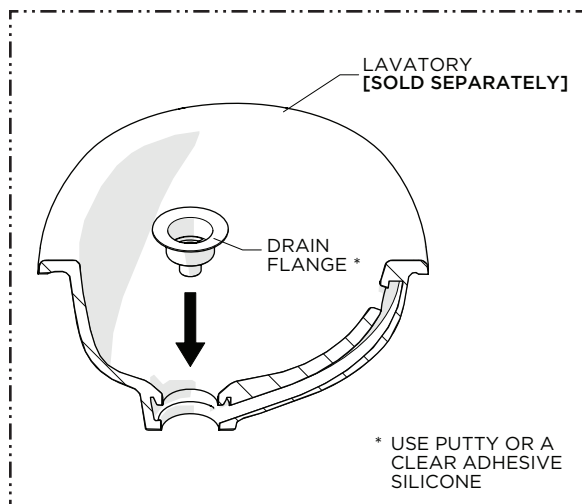


8. Unthread and remove the NUT, TAILPIECE, and GASKET from the LOWER DRAIN BODY.

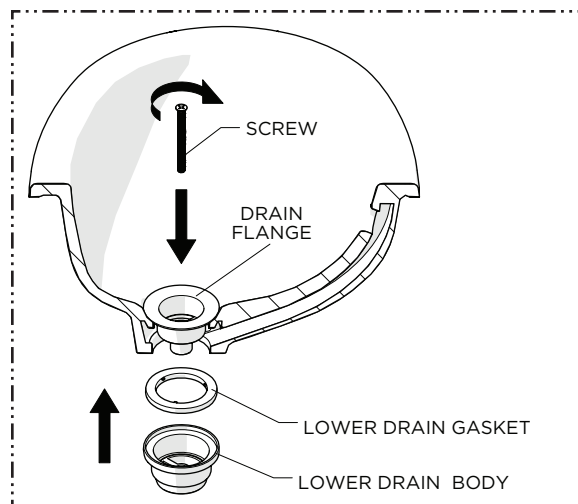


9. Remove the DRAIN STOPPER from the DRAIN FLANGE then unthread the SCREW from the LOWER DRAIN BODY.

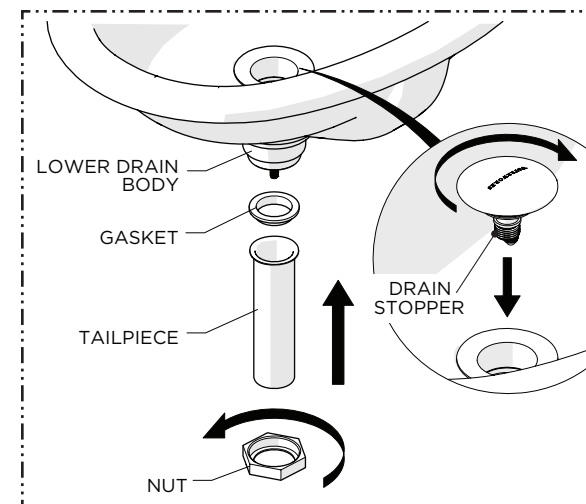
NOTE: Do **NOT** remove or discard the LOWER DRAIN GASKET.



10. Set the DRAIN FLANGE into the LAVATORY (sold separately) using putty or a clear silicone.



11. Insert the SCREW provided into the FLANGE then thread and securely tighten the SCREW into the LOWER DRAIN BODY making sure the LOWER DRAIN GASKET makes a full seal on the underside of the LAVATORY.

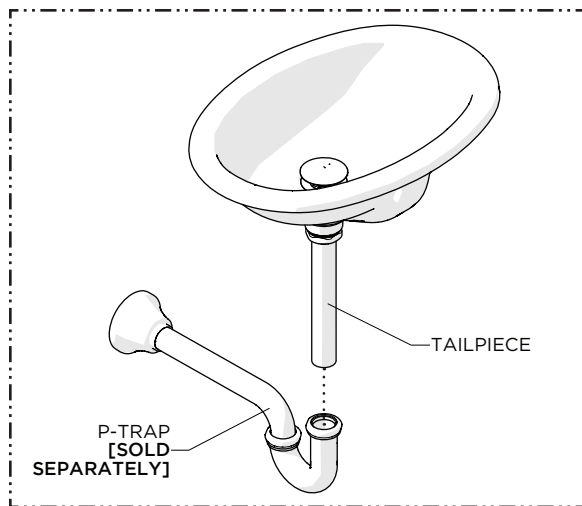


12. Re-install the DRAIN STOPPER and TAILPIECE using the GASKET and NUT provided.

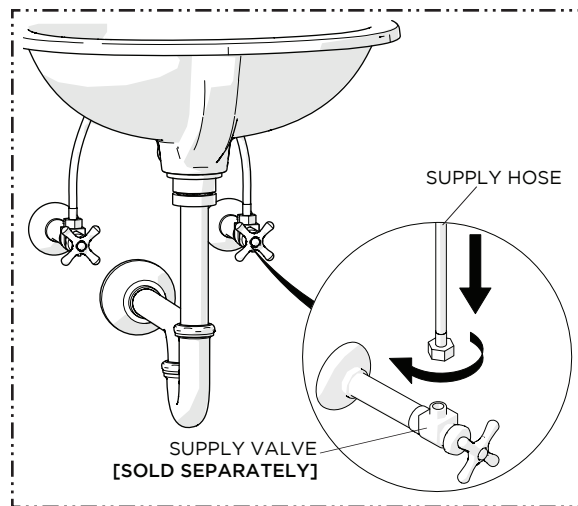
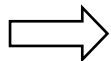
INSTALLATION GUIDELINES

ONE HOLE DECK MOUNTED LAVATORY FAUCET

WATERWORKS

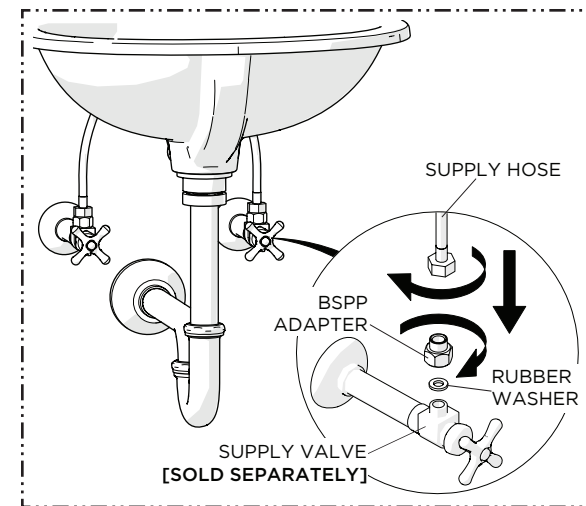
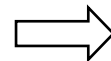


13. Make final P-TRAP (sold separately) connections.



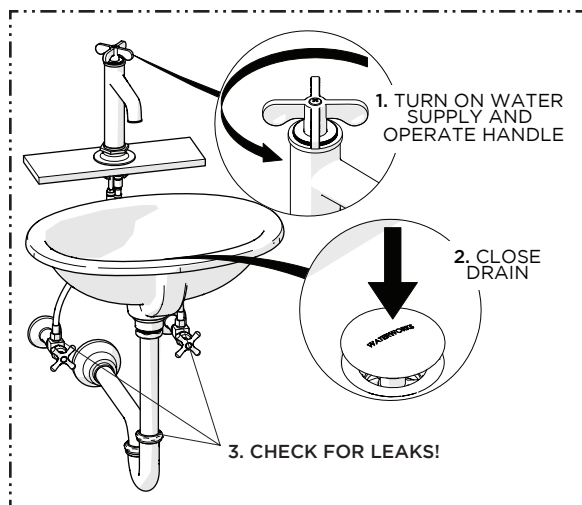
14. Connect the SUPPLY HOSES to the SUPPLY VALVES (sold separately).

NOTE: The HOSES are connected to SUPPLY TUBES that are marked BLUE for cold and RED for HOT.

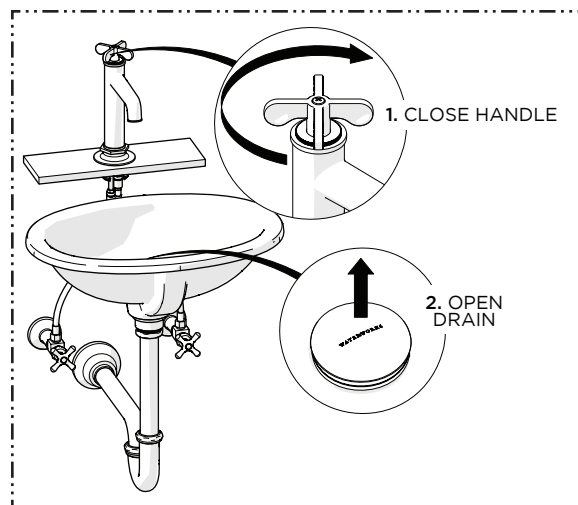
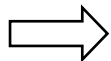


FOR INTERNATIONAL INSTALLATIONS ONLY:

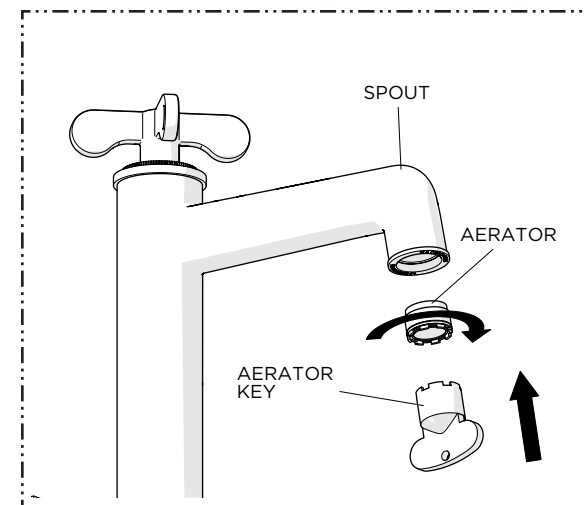
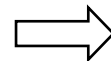
15. Using the RUBBER WASHERS provided, thread and securely tighten the BSPP ADAPTERS onto the SUPPLY VALVES then thread and securely tighten the SUPPLY HOSES onto the ADAPTERS.



16. Turn on the water supply and operate the HANDLE to flush out the SUPPLY LINES. Inspect all connections for **leaks**, then close the DRAIN to ensure it works.
NOTE: The HANDLE will rotate counterclockwise a 1/4 turn through cold, mixed, and hot water temperatures.



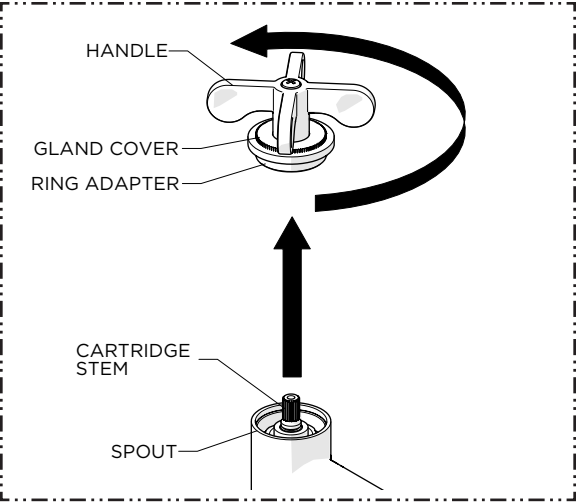
17. Close the HANDLE then open the DRAIN to drain the water.



18. Re-install the AERATOR using the tool provided.

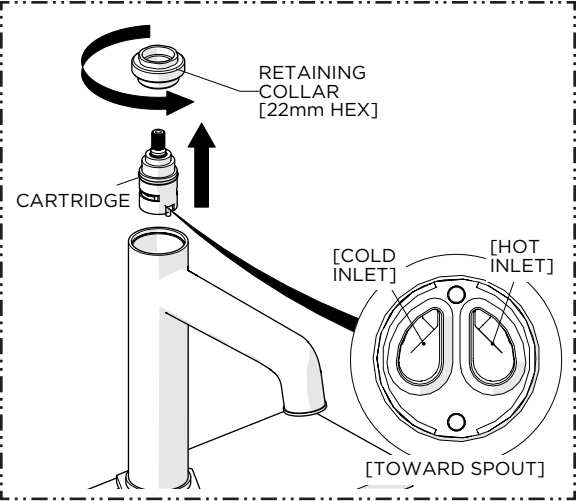
SERVICE GUIDELINES

ONE HOLE DECK MOUNTED LAVATORY FAUCET



SERVICING THE CARTRIDGE:

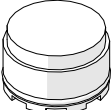
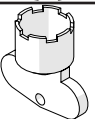
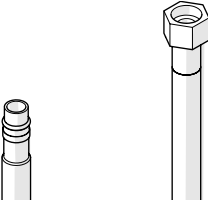
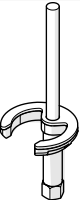
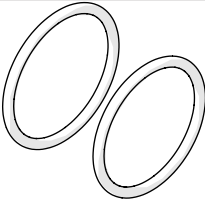
1. Unthread the RING ADAPTER along with the GLAND COVER from the SPOUT then pull the HANDLE off.



2. Unthread and remove the RETAINING COLLAR then pull the CARTRIDGE out.

NOTE: Replacing the RETAINING COLLAR requires a torque of 11 ft-lb [15N•m]. Exceeding this torque will damage the CARTRIDGE.

SERVICE PARTS:

	PART No.	DESCRIPTION
	100268 [SHOWN]	7-1/8" COPPER SUPPLY TUBE
	100269	8-1/4" COPPER SUPPLY TUBE
	104245	AERATOR
	999191	AERATOR KEY
	100271	SUPPLY HOSE
	100286	HARDWARE KIT
	106146	SPOUT SEAL KIT
	100597	CARTRIDGE