

# REPAIR INSTRUCTIONS FOR SINGLE LEVER CARTRIDGE KITS

## Service Kits:

6-1201-5-0 Service kit – Brass stem with square drive, top screw for brass underbody

6-N1201-5-0 Service kit – Brass stem with square drive, top screw for plastic underbody

6-1101-5-0 Service kit – Stainless steel stem with rear screw for 5” lever handle

## Tools required:

1/8” Allen wrench (6-1101-5-0 kit only)

Number 2 Phillips screwdriver

Clean dry rag

1 1/4” open end wrench or large adjustable wrench that will open to 1 1/4”

Parts required: One of the above service kits. Handles are not included.

**CAUTION: Turn off the water supply to the faucet.**

## DISASSEMBLY:

1. Remove button from clear handle or loop handle faucets. Unscrew handle screw with a number 2 Phillips screwdriver and set handle aside. For lever handle faucets, unscrew rear set screw with an 1/8” Allen wrench. Move the stem to middle of heart shaped opening of the bonnet top.
2. Wrap a clean dry rag around the centerpiece nut and unscrew the centerpiece nut and set it aside. Alternatively, use an 1 1/4” wrench very carefully on the wrenching flats provided.
3. Remove and aside the white plastic bonnet top with the heart shaped opening; it will not be reused.
4. Pull up on the metal ball stem drive, rocking it back and forth to disengage the bonnet middle from the underbody. Aside, as these parts will not be reused.
5. Remove the bonnet bottom with a top O-ring, the two black rubber seat washers and springs (springs for metal underbodies will have white spring inserts). Aside all these parts, as they will not be reused. For kitchen faucets, the spout may be removed to help drain the mixing chamber of water. Rotate and pull straight up on the spout. Hold the spout tube close to the hub area to eliminate binding. Mop up any excess water.

## REASSEMBLY:

1. Open the service kit and using a sharpened number 2 pencil, assemble the smaller diameter of the seat washer first over the end of the pencil. Assemble the spring next (the spring fits inside the larger opening of the seat washer). Assemble the white spring insert if provided in the kit. Position the pencil to the faucet and push the parts into one of the underbody seat bores. Repeat for the other seat bore.
  2. Pick up and position the smaller O-ring to the bonnet bottom, which has three lobed sides. Smear Dow Corning 111 lubricant across the O-ring and on the opposite flat bottom side. Position the bonnet bottom in the center of the mixing chamber of the faucet with the flatted area of the hole at the 12 O’clock position. The key way of the underbody mixing chamber is at 9 O’clock.
- CAUTION: Do not use petroleum jelly or any petroleum based lubricant for lubrication, as some O-ring compounds will swell in its presence.**
3. Pick up the remaining O-ring and assemble to the bonnet middle and position the bonnet middle to the faucet. The key must fit in the key way of the faucet, which will be at 9 O’clock.

4. Pick up the metal ball stem drive and line up the flat at the bottom with the flat of the bonnet middle. Push through the bonnet middle only, rotate the stem 90 degrees counterclockwise and push it further to seat into the flat of the bonnet bottom. The ball portion of the metal ball stem drive must rest in the bonnet middle ball socket with the larger of the two plastic pins at the 9 O'clock position.
  5. Pick up the new white plastic bonnet top and position the keyway on the underneath side at the 12 O'clock position with respect to the bonnet middle. Push the bonnet top over the metal ball stem drive and onto the bonnet middle. Make sure the mating key and key way are engaged with each other.
  6. CAUTION: Make sure the key at the 9 O'clock position of the bonnet middle is in the centerpiece keyway. If the seat springs have pushed the bonnet middle upwards, push the key side down to engage the keyway and let the other side ride up.
  7. Reassemble the centerpiece nut and wrap with a clean dry rag and tighten securely. Tighten with an 1 ¼" wrench across the flats if necessary.
  8. Reassemble the handle to the metal stem.
  9. Pick up and position the lock washer and screw to the acrylic or loop handle and tighten hand tight with the Phillips screw driver. Pick up and position the button to the handle and seat securely with the red arrow on the left. For lever handle faucets, pick up the 5" lever handle, position it over the stem and tighten securely with an 1/8" Allen wrench.
- Turn the water back on and check for leaks. Turning off the water supply at the main shut off may disturb sediment in the lines and cause the sediment to be dislodged and delivered to all faucets.
- If the faucet leaks at the handle stem, turn off the water and check to see that all keys are fully engaged in their respective key ways. Check all O-rings for debris. Reassemble and recheck. If the faucet will not shut off, turn off the water and check for debris in or around the seat washers. Sharp debris may also score the bonnet bottom, and this will cause a shut off leak. Reassemble and recheck.
- If the flow is still low, check the aerator screen or shower head orifice for debris that is blocking the outlet.