

# Installation Instructions

## 90-75 Metering Cartridge Repair Kit

For Mechanical Metering Faucet Models:

- S53-053 90-75 with 4" Centerset
- S53-082 90-75 with 4" Centerset & 8" Trim Plate
- S53-058 90-75 with Centershank
- S53-295 90-75 with Centershank & 8" Trim Plate

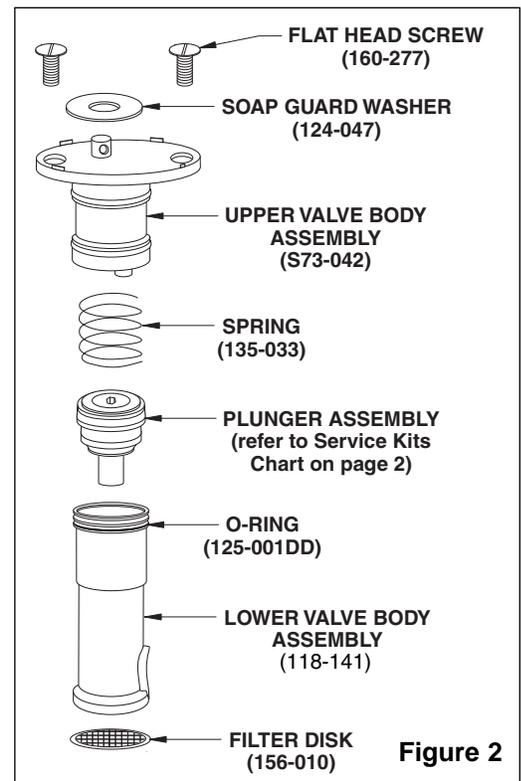
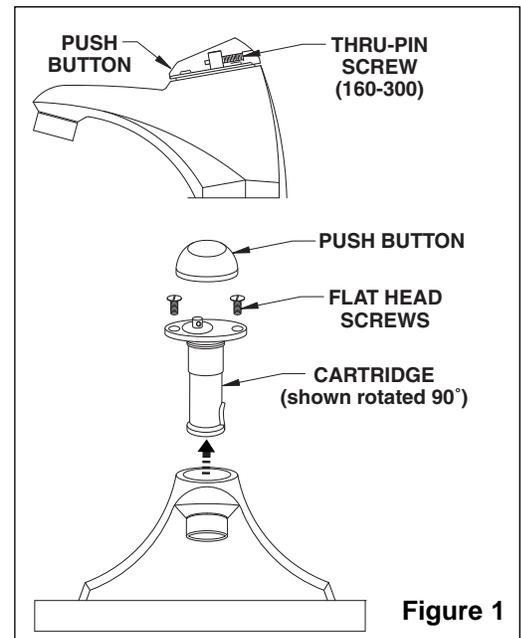
*NOTE: Refer to Figure 1 when installing cartridge. Refer to Figure 2 for cartridge components.*

*NOTE: Shut off the water supply before installation.*

1. Remove the thru-pin screw in the rear of the push button with a 3/32" hex key and remove the push button.
2. Remove the two flat head screws that hold the cartridge in the faucet.
3. Rotate the cartridge 90° and wiggle it (this will cause the filter disk at the bottom of the cartridge to be removed with the cartridge). Remove the cartridge.
4. Inspect the cartridge seat inside the faucet body to make sure that the filter disk has been removed and the seat is clear of debris.

*NOTE: The silicone grease provided is used only to hold the filter disk to the bottom of the cartridge. A small amount of grease on the disk is sufficient.*

5. Place three small dabs of silicone grease (provided) on the bottom of the replacement cartridge. Place the filter disk on the bottom of the cartridge.
6. Insert the replacement cartridge into the faucet with the cartridge screw holes rotated 90° from the mounting holes in the faucet. This will make it easier to position the cartridge in the cartridge seat.
7. Rotate the cartridge 90° (the arrow imprinted on the cartridge should be at the bottom) and secure the cartridge with the flat head screws provided.
8. Turn on the water supply and test the faucet to ensure proper valve cycling. Adjust the timing, if necessary (see page 2 for timing adjustment instructions).
9. Replace the push button and secure it with the screw.



**Bradley** 

## Timing Adjustments

*NOTE: This faucet has been factory tested and adjusted using 75–85 PSI pressure and ambient cold water. Refer to the table below for a list of available Service Kits that are adjusted at the factory. Varied pressure and/or temperature will affect timing cycle as follows:*

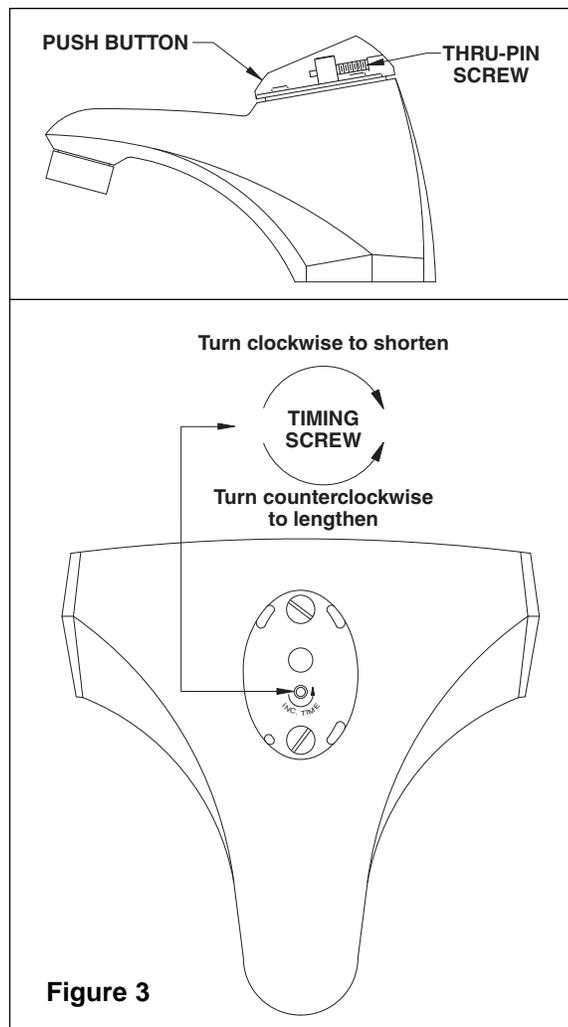
- Lower inlet pressure - slight increase in length of cycle.
- Higher inlet pressure - slight decrease in length of cycle.

**! IMPORTANT: Inlet supply temperature should never exceed 110°F (43.3°C).**

**If further adjustment is desired, follow the steps outlined below**

*NOTE: Refer to figure 3 when adjusting the timing.*

1. Using a 3/32" Allen wrench, remove the thru-pin screw in the back of the push button. Remove the push button and soap guard washer.
2. Insert a 5/64" Allen wrench into the timing adjustment screw located directly in front of the operating stem. Turn clockwise to shorten the cycle; counterclockwise to extend the cycle.
3. Reinstall the soap guard washer and push button.



## Service Kits

*NOTE: The following Service Kits are adjusted at the factory for the cycle times listed in the table.*

Part Number	Cycle Time	Description	Plunger Assembly
S65-074	10–12 seconds	90-75 Mechanical Metering Std. Repair Kit	S64-089
S65-091	10–12 seconds	90-75 Mechanical Metering Std. Repair Kit with Push Button	S64-089
S65-115	5–7 seconds	90-75 Mechanical Metering Mega Orifice Repair Kit (for use in areas (with poor water quality)	S64-091
S65-090	30 seconds	Standard Repair Kit "For Service Only"	S64-090