

## KITCHEN AND BATH

### Purpose

This document outlines the procedure of replacing the cartridge in the Flow Max Faucets.

### Safety

#### ⚠ WARNING

The “WARNING” symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual. Always wear eye protection when performing this installation procedure. Other safety equipment to consider would be hearing protection, gloves, and possible a full face shield, depending on the nature of the installation procedure.

#### ⚠ CAUTION

The “CAUTION” symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

#### ⚠ CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

### Required Resources

- 2.5 mm hex wrenches
- Needle nose pliers
- Adjustable wrench
- Safety glasses

### Prior to Replacement

1. Shut off the hot and cold water outlet supply valves for the existing faucet, typically located below the sink.
2. Relieve any pressure from the existing faucet by turning the existing faucet on and off.



### Cartridge

Cartridge	Part Number	Description
A	<a href="#">2021025928</a>	Lippert Flow Max™ - Cartridge Valve - Style A*
B	<a href="#">2021025929</a>	Lippert Flow Max™ - Cartridge Valve - Style B
C	2024056677	Lippert Flow Max™ - Cartridge Valve - Style C
D	2024056678	Lippert Flow Max™ - Cartridge Valve - Style D
E	2024056679	Lippert Flow Max™ - Cartridge Valve - Style E

\*Cartridge may be blue OR grey.

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### Coiled Spring Sprayer Faucet

Cartridge	OEM	Aftermarket	Finish
A	2023019015	<a href="#">719323</a>	stainless steel
	2023019014	<a href="#">2021090598</a>	matte black
	2023017580	<a href="#">2022109922</a>	matte black + stainless steel
	2024017029	N/A	champagne bronze + matte black
	2024051039	N/A	champagne bronze neck + matte black
	2023019003	N/A	matte black (shorter size)

**NOTE:** Pre-existing part number (\*) may be necessary for warranty claims on cartridges.



### Bullet Pull Down Faucet

Cartridge	OEM	Aftermarket	Finish
A	664736	<a href="#">719333</a>	stainless steel
	797390	<a href="#">2021090600</a>	matte black
	2023008472	<a href="#">2024000071</a>	matte black+champagne bronze

**NOTE:** Pre-existing part number (\*) may be necessary for warranty claims on cartridges.



### Square Gooseneck Faucet

Cartridge	OEM	Aftermarket	Finish
A	645718	<a href="#">719325</a>	stainless steel
	795009	<a href="#">2021090597</a>	matte black
	2023008471	<a href="#">2024000066</a>	champagne bronze

**NOTE:** Pre-existing part number (\*) may be necessary for warranty claims on cartridges.



### Curved Gooseneck Faucet

Cartridge	OEM	Aftermarket	Finish
A	645717	<a href="#">719324</a>	stainless steel
	798351	<a href="#">2021090601</a>	matte black

**NOTE:** Pre-existing part number (\*) may be necessary for warranty claims on cartridges.

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### Kitchen Pull Down Faucet

Cartridge	OEM	Aftermarket	Finish
B	808235	<a href="#">2022007783</a>	stainless steel
	808232	<a href="#">2021090602</a>	matte black

**NOTE:** Pre-existing part number (\*) may be necessary for warranty claims on cartridges.



### Waterfall Bathroom Faucet

Cartridge	OEM	Aftermarket	Finish
C	729396	<a href="#">2022007782</a>	stainless steel
	2021122937	N/A	matte black
	N/A	<a href="#">2021090599</a>	matte black

**NOTE:** Pre-existing part number (\*) may be necessary for warranty claims on cartridges.



### Square Bathroom Faucet

Cartridge	OEM	Aftermarket	Finish
A	2022110113	<a href="#">2024025311</a>	stainless steel
	2022110112	<a href="#">2024025313</a>	matte black



### Luminary Lavatory Faucet

Cartridge	OEM	Aftermarket	Finish
A	2024044595	N/A	Champagne Bronze

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### Vessel Bathroom Faucet

Cartridge	OEM	Aftermarket	Finish
C	2023020159	N/A	matte black

### Square Gooseneck Fold-Up Faucet

Cartridge	OEM	Aftermarket	Finish
D	2023010166	N/A	matte black

### Knurled Bullet Pulldown Faucet

Cartridge	OEM	Aftermarket	Finish
A	2024037242	N/A	Gungrey + stainless steel

### Square Gooseneck Lav Faucet

Cartridge	OEM	Aftermarket	Finish
E	2024028510	N/A	matte black

### 14" Square Pulldown Kitchen w/non-toggle switch

Cartridge	OEM	Aftermarket	Finish
A	2023132536	N/A	matte black



## Replacement

1. Locate the set screw on the faucet model. Depending on faucet model the set screw is located in three different locations.
  - A. Under the lever handle (Fig. 1): Remove lever handle by turning clockwise to access set screw.
  - B. Under the rubber plug on the faucet handle (Fig. 2): Remove rubber plug to access set screw.
  - C. Under the faucet handle (Fig. 3): Turn faucet to "ON" position to access set screw.

Fig. 1

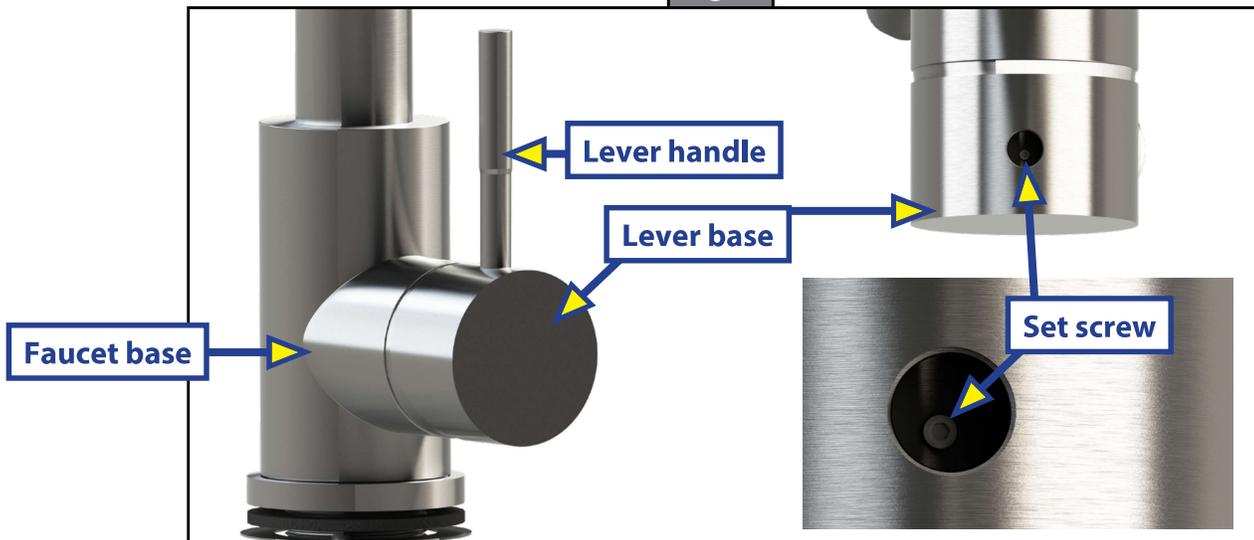
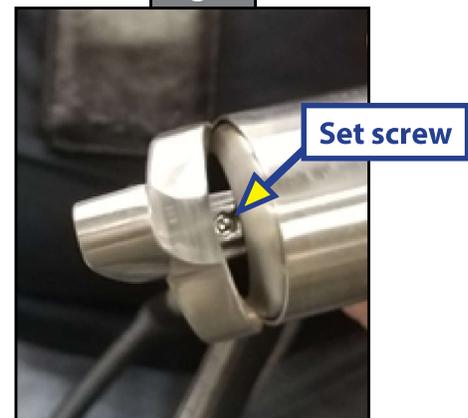


Fig. 2



Fig. 3



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2. Using the 2.5 mm hex wrench, loosen the set screw and remove the lever base found on each model (Fig. 4).

**NOTE:** It is not necessary to completely remove the set screw.

Fig. 4



3. Depending on faucet model there are two styles of trim rings that need to be removed.

- A. Unscrew by hand from cartridge retainer ring (Fig. 5).
- B. Place finger under trim ring (Fig. 6A) and pull out of faucet base (Fig. 6).

Fig. 5



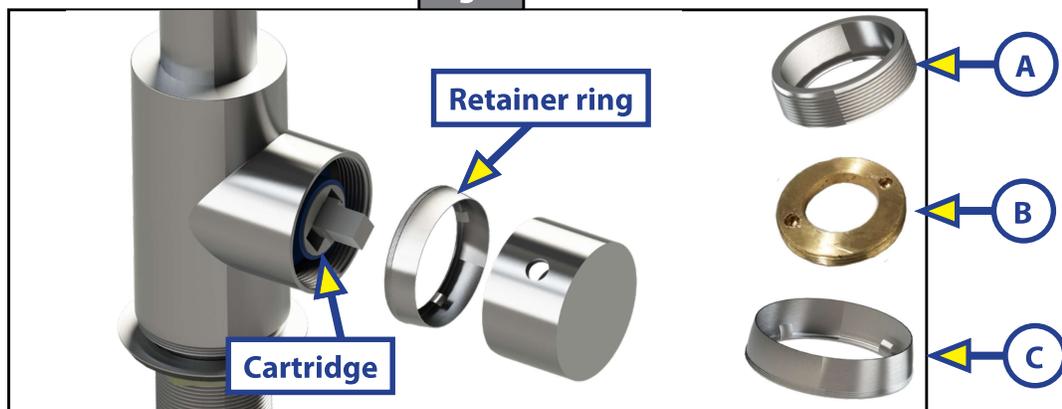
Fig. 6



4. Remove the retainer ring that holds the cartridge in place (Fig. 7).

- A. Flat-sided (Fig. 7A): Use pliers or adjustable wrench to grip and unscrew from faucet base.
- B. Spanner style (Fig. 7B): Open needle nose pliers and place each end in recessed spanner hole and unscrew.
- C. Tab style (Fig. 7C): Open needle nose pliers and place each end on opposite sides of tabs and unscrew.

Fig. 7



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- Remove the cartridge (Fig. 8) by pulling it away from the faucet base.

**NOTE:** Depending on faucet model, there are two different styles of cartridges

Fig. 8



## Cartridge Installation

**NOTE:** Before installing the cartridge, remove any debris or build-up by wiping the installation area clean (Fig. 10).

- Line up the pilot studs (Fig. 9A) on the bottom of the new cartridge with the indentations on the inside of the faucet base (Fig. 10A) and insert the new cartridge.

**NOTE:** If cartridge is not lined up correctly it will restrict water flow.

Fig. 9

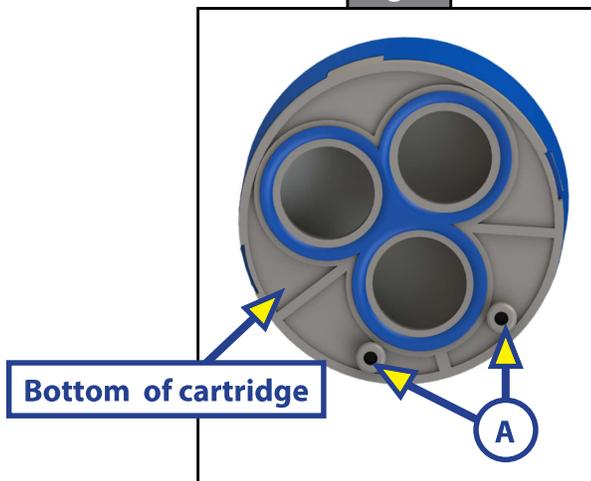
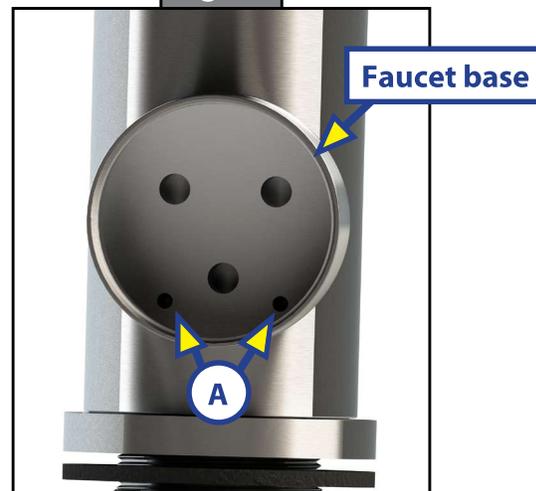
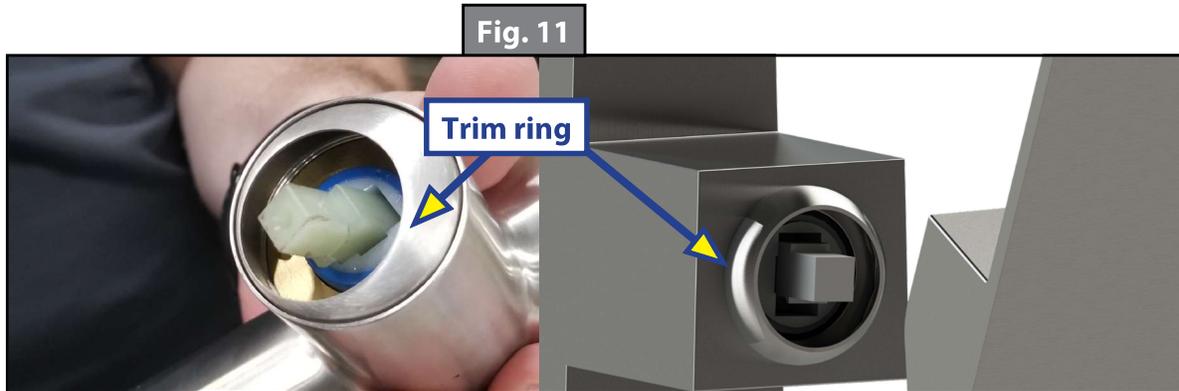


Fig. 10



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2. Replace retainer ring over the cartridge into the faucet base.
  - A. Flat-sided style: Place washer into the lever base, tighten with pliers or adjustable wrench.
  - B. Spanner style: Open needle nose pliers and place each end in recessed spanner hole and screw in.
  - C. Tab style: Open needle nose pliers and place each end on opposite sides of tabs and screw in.
3. Replace the trim ring (Fig. 11).
  - A. Tighten by hand.
  - B. Press into place until the trim ring is securely seated in the faucet base.



4. Replace lever base (Fig. 12) and tighten the set screw with the 2.5 mm hex wrench.
5. Replace lever handle, thread back onto lever base if faucet model requires it (Fig.13).

