

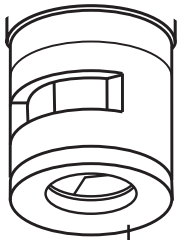
Cartridge Maintenance/Repair Guide



Thank you for choosing Chicago Faucets! All Chicago Faucet products are carefully assembled and tested to insure the highest quality in the plumbing industry. We are proud to offer you a product that will provide years of dependable, reliable service.

The Maintenance and Repair Guide is intended to provide you, as a customer, with a step-by-step procedure for replacing or renewing our most popular cartridges. These procedures are limited to minor problems that are the result of normal wear and not intended to cover repairs that are the result of damage caused by abuse or vandalism.

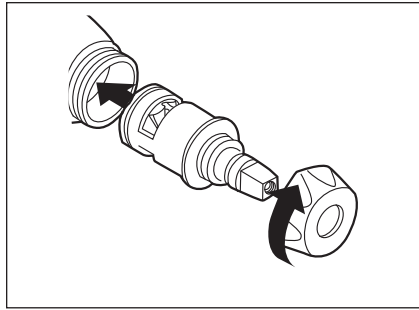
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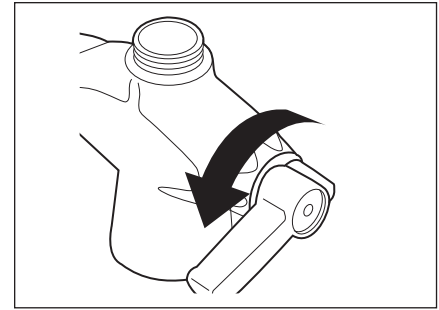
Stem Identification

Color-coded seat

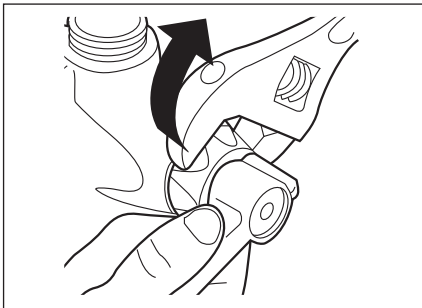
Ensure cartridges are in the closed position before installing into valve body. Cartridges feature color-coded seats. Blue seat on cold cartridge, red seat on hot cartridge.



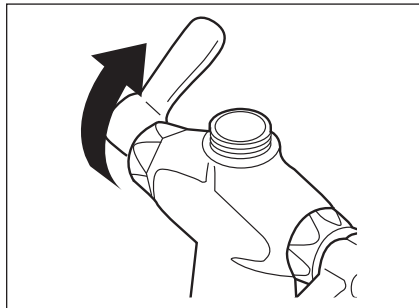
Step 1 Push each cartridge into valve body until it seats. Add cap nuts and hand tighten. Add handles.



Step 2 Rotate RIGHT handle (and cartridge) counter clockwise to the desired closed position.

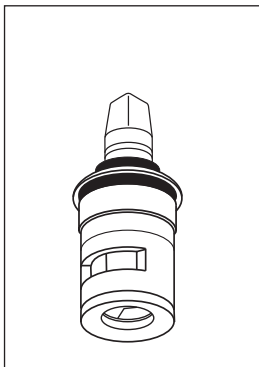


Step 3 Using handle to maintain stem position, fully tighten right cap nut to 20 to 27 ft. lb. torque.

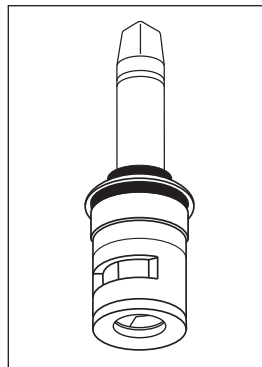


Step 4 Move LEFT handle (without moving cartridge) to the open position and fully tighten right cap nut to 20 to 27 ft. lb. torque. Return handle to closed position.

Ceramic Operating Cartridges



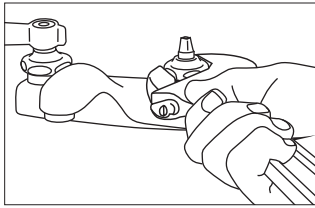
Short Stem
No. 1-100XKJKNF
Left Hand Cartridge
No. 1-099XKJKNF
Right Hand Cartridge



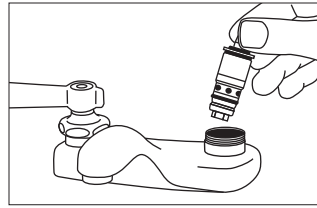
Long Stem
No. 377-XKLHJKNF
Left Hand Cartridge
No. 377-XKRHJKNF
Right Hand Cartridge

Note: No replacement parts for ceramic cartridges, sold only as complete assembly.

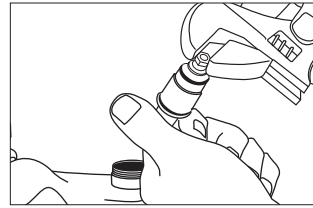
Renewing "XT" Quatern™ or Slow Compression Cartridges



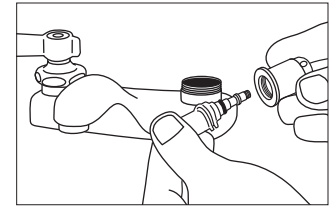
STEP 1 - Turn off water at stop or main valve. Remove handle assembly and with flat face wrench, remove cap nut (A).



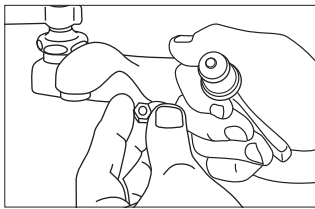
STEP 2 - Remove cartridge from faucet. Flush out any rust or chips that may be in body. DO NOT use file or abrasives to clean out body.



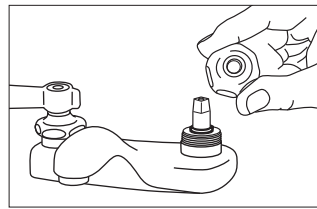
STEP 3 - Unscrew stem nut (K) at the bottom of the cartridge with a flat wrench using a handle as lever to assist removal.



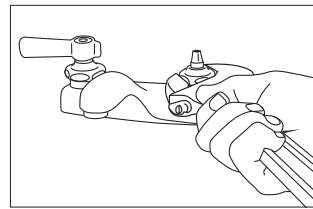
STEP 4 - Turn sleeve (D) off stem (C) by holding handle and turn sleeve by hand. As sleeve is removed from stem, seat (F) O-Ring (G) seat washer (H) retainer (I) and washer (J) will be forced off the stem.



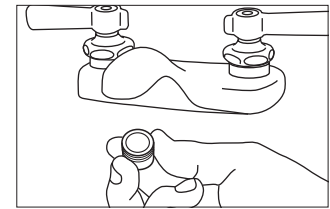
STEP 5 - Reassemble sleeve (D) on lightly lubricated stem (C). With new parts add seat (F) O-Ring (G) seat washer (H) retainer (I) and washer (J) on stem (C) and screw nut tightly on stem.



STEP 6 - Reposition washer and O-Ring (B) on stem (C) add to sleeve (D). Replace cartridge in faucet.



STEP 7 - Replace Cap Nut (A) and partially tighten. Replace handle and rotate cartridge in the direction of closing until the cartridge is in the desired position for convenient operation. Remove handle. Lock cartridge in place by securely tightening Cap Nut (A) to 20 - 27 ft. lbs torque.



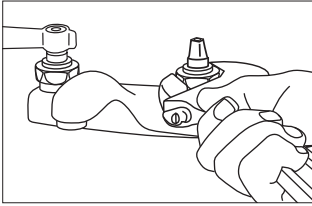
STEP 8 - Turn water on at main valve or stop. Remove aerator. Turn faucet on to "full" allowing sediment to flush from lines and replace aerator cartridge.



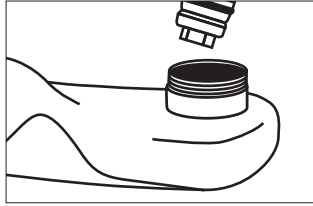
"XT" TYPE CARTRIDGES

PARTS LIST - Those parts listed in the "Description" column below that are marked with an asterisk (*) are parts that are recommended for replacement when renewing these operating cartridges. Other parts not marked may require replacement depending on the amount of wear they have received and their condition when examined.

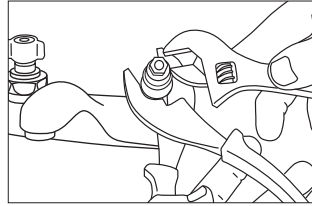
Description	Quatern Cartridges				Slow Compression Cartridges			
	Exposed Cap		Concealed Cap		Exposed Cap		Concealed Cap	
	1-009XTJKNF	1-100XTJKNF	377-XTRHJKNF	377-XTLHJKNF	217-XTLHJKNF	217-XTRHJKNF	274-XTLHJKNF	274-XTRHJKNF
A. Cap	1-214JKCP	1-214JKCP	274-004JKRBF	274-004JKRBF	1-214JKCP	1-214JKCP	274-004JKRBF	274-004JKRBF
B. Packing Assembly*	93-131JKNF	93-131JKNF	93-131JKNF	93-131JKNF	93-131JKNF	93-131JKNF	93-131JKNF	93-131JKNF
C. Stem Assy. w/ O-Ring	1-311KJKBNF	1-310KJKBNF	274-110KJKBNF	274-111KJKBNF	1-314KJKBNF	1-315KJKBNF	274-112KJKBNF	274-115KJKBNF
D. Sleeve	2-329JKRBF	2-328JKRBF	2-329JKRBF	2-328JKRBF	317-102JKRBF	317-103JKRBF	317-102JKRBF	317-103JKRBF
E. O-Ring	2-043JKNF	2-043JKNF	2-043JKNF	2-043JKNF	2-043JKNF	2-043JKNF	2-043JKNF	2-043JKNF
F. Seat*	1-327JKNF	1-327JKNF	1-327JKNF	1-327JKNF	1-327JKNF	1-327JKNF	1-327JKNF	1-327JKNF
G. O-Ring	1-328JKNF	1-328JKNF	1-328JKNF	1-328JKNF	1-328JKNF	1-328JKNF	1-328JKNF	1-328JKNF
H. Seat Washer*	1-021JKNF	1-021JKNF	1-021JKNF	1-021JKNF	1-021JKNF	1-021JKNF	1-021JKNF	1-021JKNF
I. Retainer	1-022JKNF	1-022JKNF	1-022JKNF	1-022JKNF	1-022JKNF	1-022JKNF	1-022JKNF	1-022JKNF
J. Washer	1-031JKNF	1-031JKNF	1-031JKNF	1-031JKNF	1-031JKNF	1-031JKNF	1-031JKNF	1-031JKNF
K. Nut	333-097JKNF	333-097JKNF	333-097JKNF	333-097JKNF	333-097JKNF	333-097JKNF	333-097JKNF	333-097JKNF



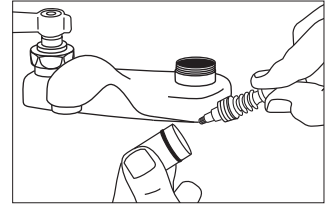
STEP 1 - Turn off water at stop or main valve. Remove handle, loosen cap nut (A) with flat faced wrench and remove upper parts of cartridge consisting of stem (C), bonnet (B) and spring (D).



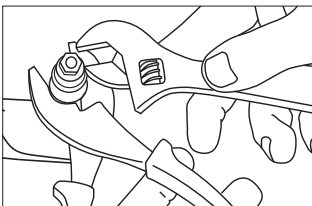
STEP 2 - With pliers, grab the cartridge stem and pull up, removing it from the body.



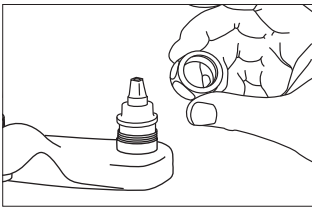
STEP 3 - Holding the flat portion of plunger (E) remove stem nut (P). After stem nut is removed, remove washer (O), retainer (N) seat washer (M) and Monel seat (L) by tapping bottom of plunger until parts are loosened. Now, remove O-Rings (H), leather packing (I), gland (G) and spring (F) from sleeve (K).



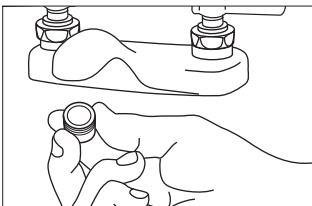
STEP 4 - To reassemble, clean any lime or foreign matter that may have built-up on parts. Lubricate plunger surface (E) and place spring (F) and gland (G) on plunger. Replace the (2) O-Rings (H) making sure that the leather packing is placed between them. Slide O-Rings and leather packing on the plunger. Lubricate O-Rings and leather packing with a light grease before the plunger is inserted into the sleeve (K).



STEP 5 - Replace Monel seat (L), seat washer (M), retainer (N), cup washer (O), and tighten stem nut (P) securely.

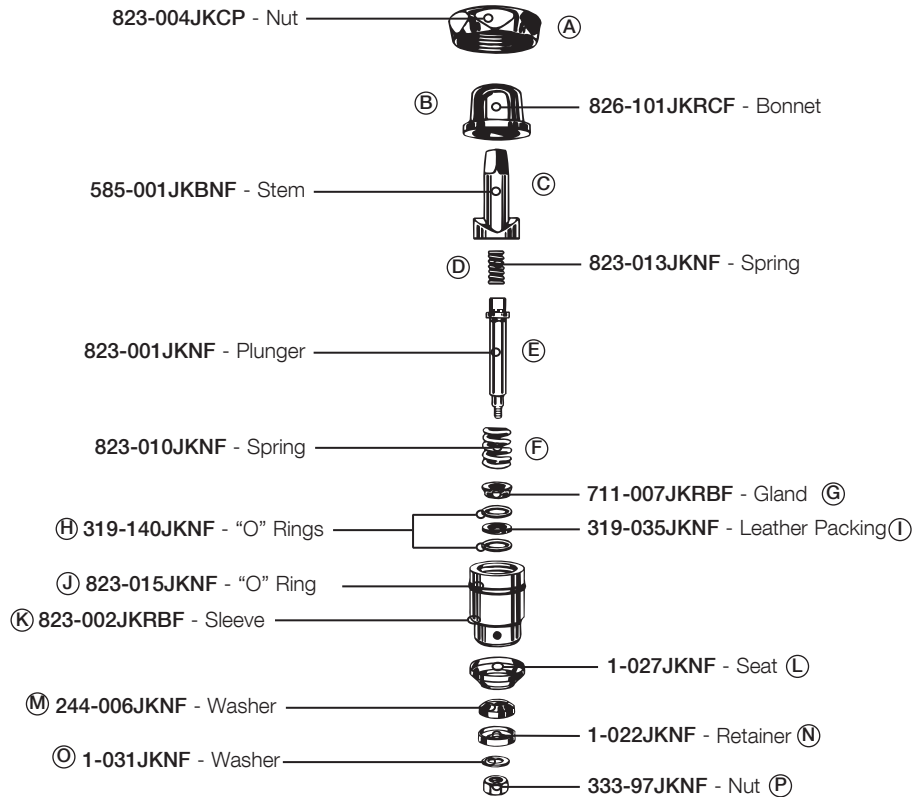


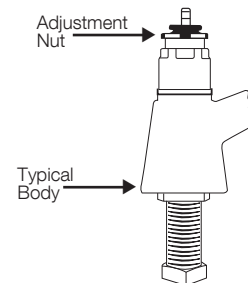
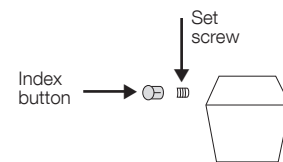
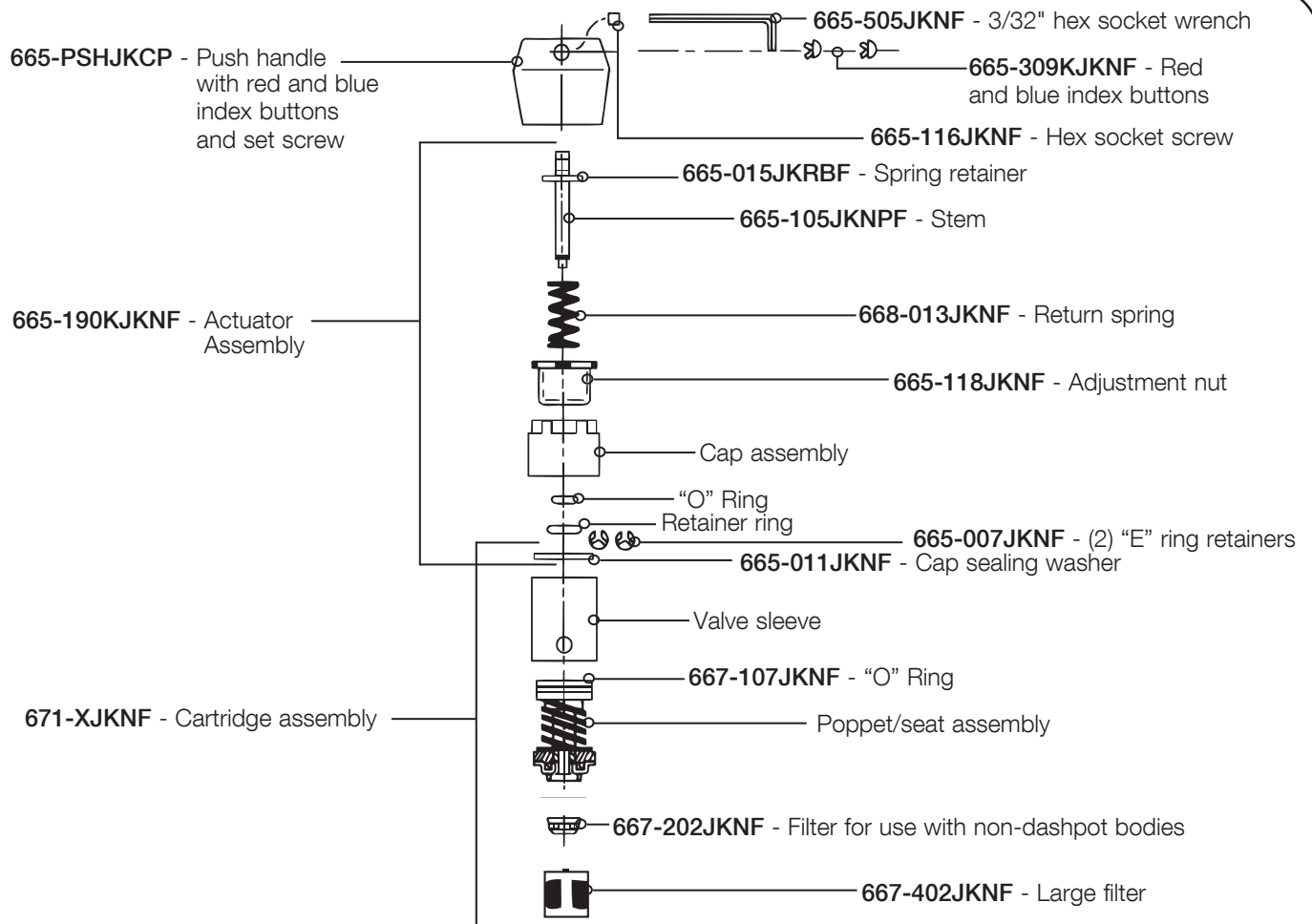
STEP 6 - Replace O-Ring (J) with new O-Ring, inserting into groove on the sleeve (K). Lubricate outside of O-Ring, stem (C) and inside of bonnet (B). Lubricate spring (D) and insert into stem. Assemble upper parts of cartridge (B,C,D) and tighten nut (A) to faucet body sufficiently (25 - 32 ft. lbs.) to insure that metal to metal contact of lower seat (L) in faucet body. Bonnet and sleeve must also make metal to metal contact. Replace handle.



STEP 7 - Turn water on at stop or main valve. Remove aerator. Turn faucet on to "full" allowing sediment to flush from lines and replace aerator cartridge.

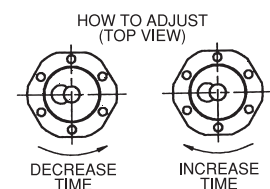
826-XJKNF Parts Overview

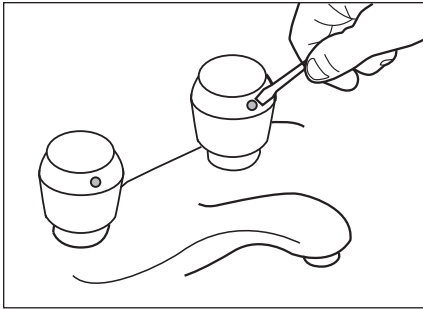




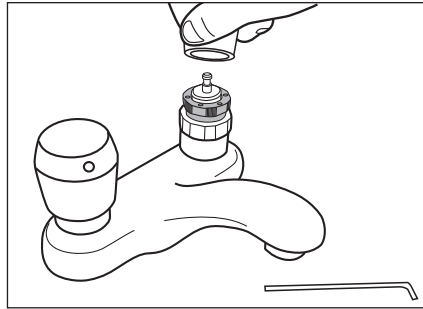
Timing Adjustment on an MVP Metering Cartridge

- ① With handle in place, purge cartridge of air by pushing completely down 4-8 times rapidly, then check timing cycle.
- ② Remove handle with a 3/32 allen wrench.
- ③ Use a standard pair of pliers (other tools may damage the adjustment nut) to change height of adjustment nut by 1/4 turn only. Turn adjustment nut clockwise to increase time.
- ④ Replace handle and time flow. NOTE: TIMING MUST BE CHECKED WITH HANDLE IN PLACE
- ⑤ If more adjustment is needed, follow steps 3 and 4 until timing is right.
- ⑥ Attach handle and tighten screw. Press index button into handle opening.

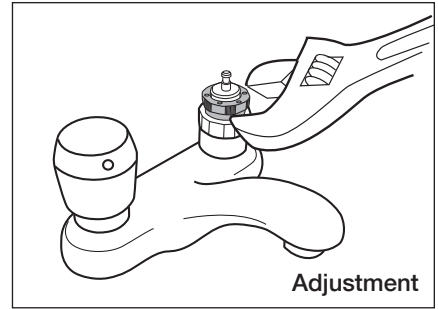




Step 1 Remove color coded index button from handle with small, flathead screwdriver.



Step 2 Insert 3/32" allen wrench in handle hole, loosen allen screw and remove handle.

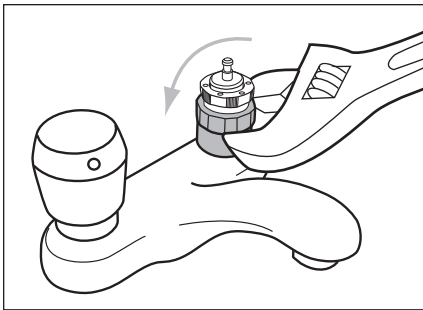


Adjustment

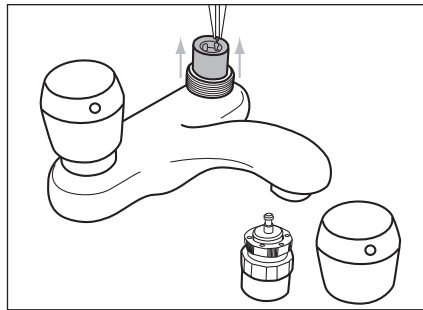
Step 3 To adjust the flow cycle of the MVP valve, turn the adjustment nut clockwise to increase the duration of the flow cycle and counter clockwise to decrease the flow cycle.

*After adjustment nut has been repositioned, replace handle, push down and test flow cycle.**

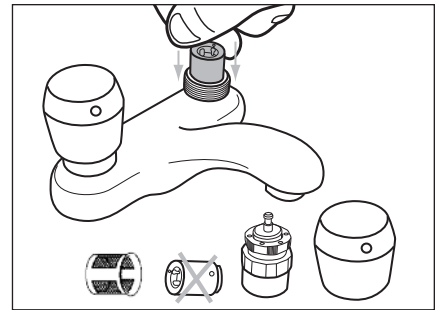
See page 6 for additional timing adjustment.



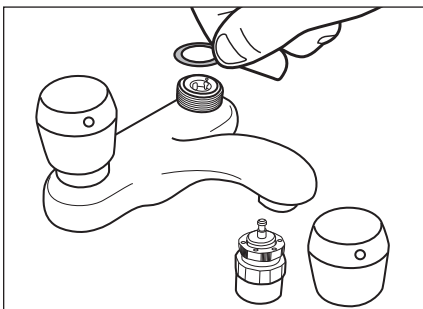
Step 4 If MVP cartridge is to be replaced, **TURN OFF WATER SUPPLY BEFORE PROCEEDING.** Using a wrench, remove actuator assembly.



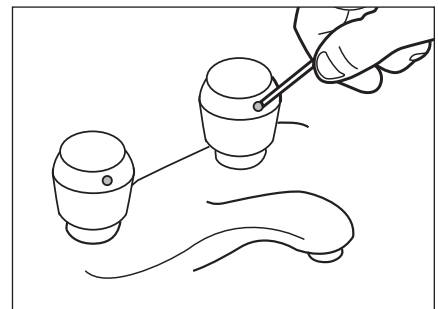
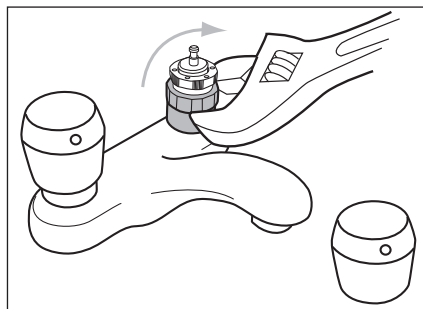
Step 5 Grasp cartridge valve top with needle-nose pliers, remove MVP cartridge from valve body. Be careful not to bend pin. Remove filter screen from inside of body with finger tip.



Step 6 Place new filter, screen and MVP cartridge in valve body.



Step 7 and 8 Replace cap sealing washer and actuator assembly. (Adjust flow cycle as described in #3.) Do not over tighten cap.

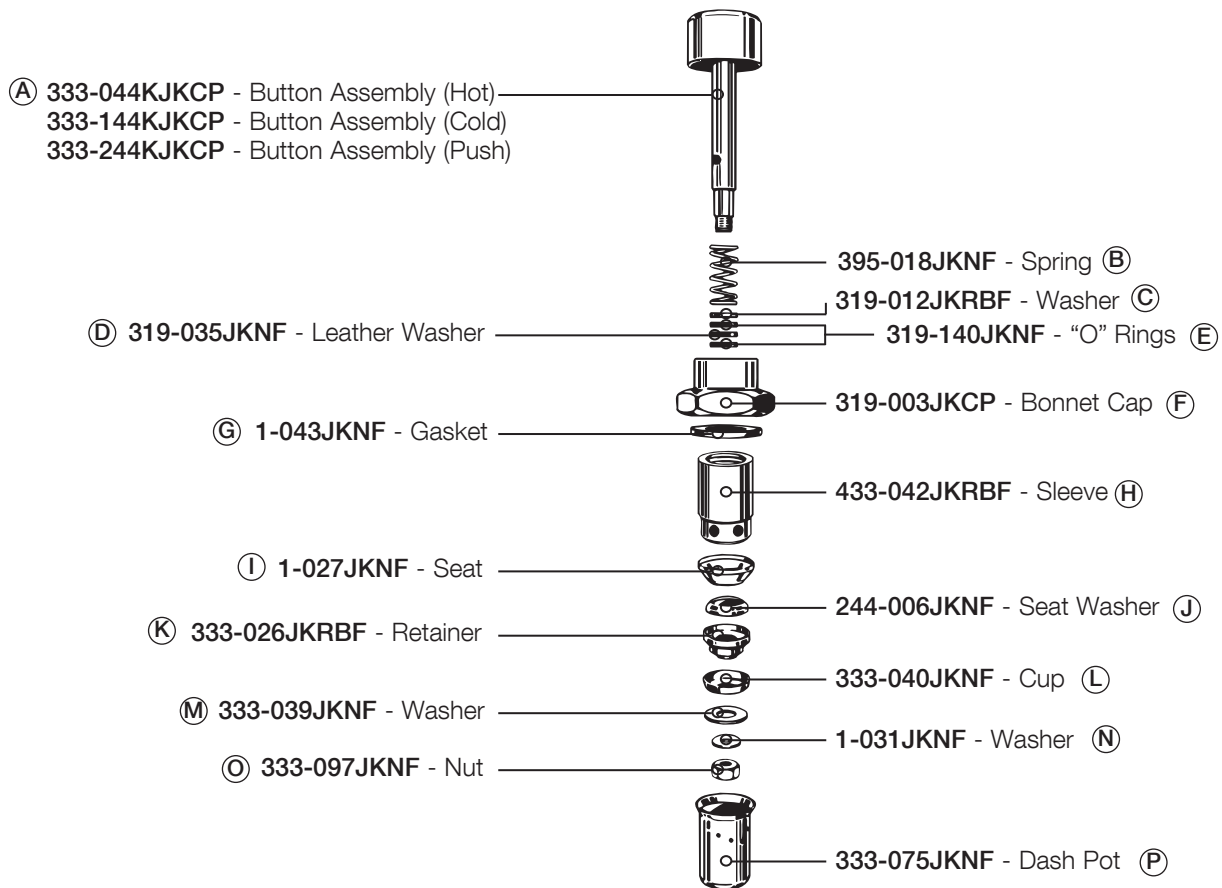


Step 9 Replace handle, tighten handle nut with allen wrench and replace index button.

* While the adjustment nut can be hand adjusted, you may have to start the adjustment by using a wrench or pliers. It is important to grip the adjustment nut loosely so as not to deform or damage the nut.

** To properly test the flow cycle, the valve handle must be in place and actuated.

NAIAD™ 333-X and 333-XSLO Push Button Cartridge



No. 333-X NAIAD is used for all No. 333 Basin faucets and all push button stops and contains a fast closing dashpot. Note: 333-XSLO is the same as No. 333-X, but with an additional external timing feature located on the button and a 333-073KJKNF adjustable slow closing dashpot.

No. 625-X NAIAD operating cartridge is used for all pedal valves. Except for the 625 and 628 on which the 628X one hole sleeve operating cartridge is used.

An adjustable slow closing model is available for both the 625-X and 628-X, which includes the 333-073KJKNF dashpot and is designated by 625-XSLO and 628-XSLO.

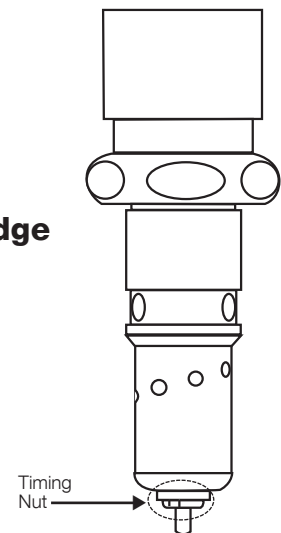
Timing Adjustment on a NAIAD Push Button Slo-Closing Cartridge

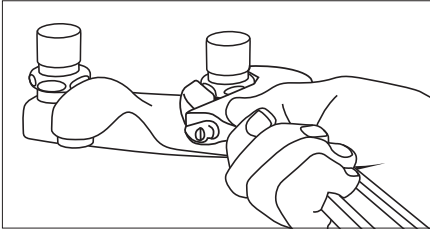
Timing can be changed by adjusting the nut located at the lower end of the dashpot.

Shorter running time = LOOSEN (counter clockwise)

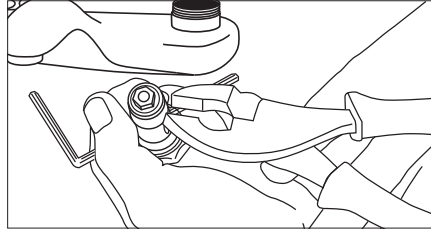
Longer running time = TIGHTEN (clockwise)

Note: Do not over tighten adjustment nut as it may cause continual run-on of faucet.

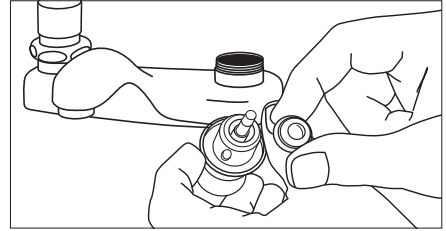




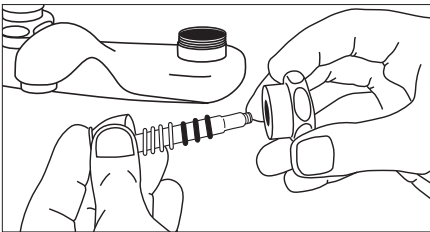
STEP 1 - Turn off water at stop or main valve. Loosen bonnet cap (F) with flat faced wrench and remove operating cartridge from valve body. Remove the dashpot (P) from the body.



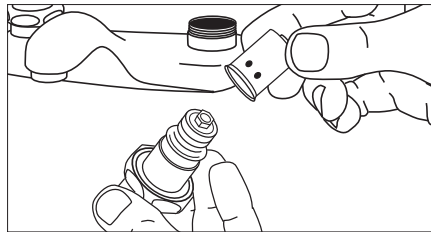
STEP 2 - To disassemble cartridge, insert pin through hole in sleeve (H) and stem (A) to keep stem from turning while nut (O) is removed. (Same procedure is followed when assembling operating cartridge.)



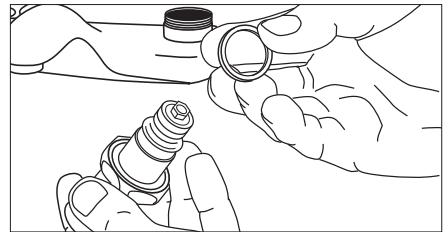
STEP 3 - Remove washer (N), washer (M), cup (L), retainer (K), washer (J) and seat (I) from stem. If leakage is occurring through spout outlet, replace seat (I) and seat washer (J). Replace cup (L), washer (M) and washer (N) as necessary.



STEP 4 - If water leakage is occurring around the button assembly, remove button and stem assembly (A) from sleeve (H) and bonnet cap (F). Clean stem thoroughly and lubricate top half with grease. Remove O-Rings (E) and washer (C and D) from cap (F). Replace the packing arrangement on stem assembly (A) by sliding washer (C) on stem and then leather washer (D) between the two O-Rings (E) onto the stem. Next slide cap (F) onto stem (A) and firmly slide cap up the stem to allow spring (B) to seat O-Rings and washers in cap (F).

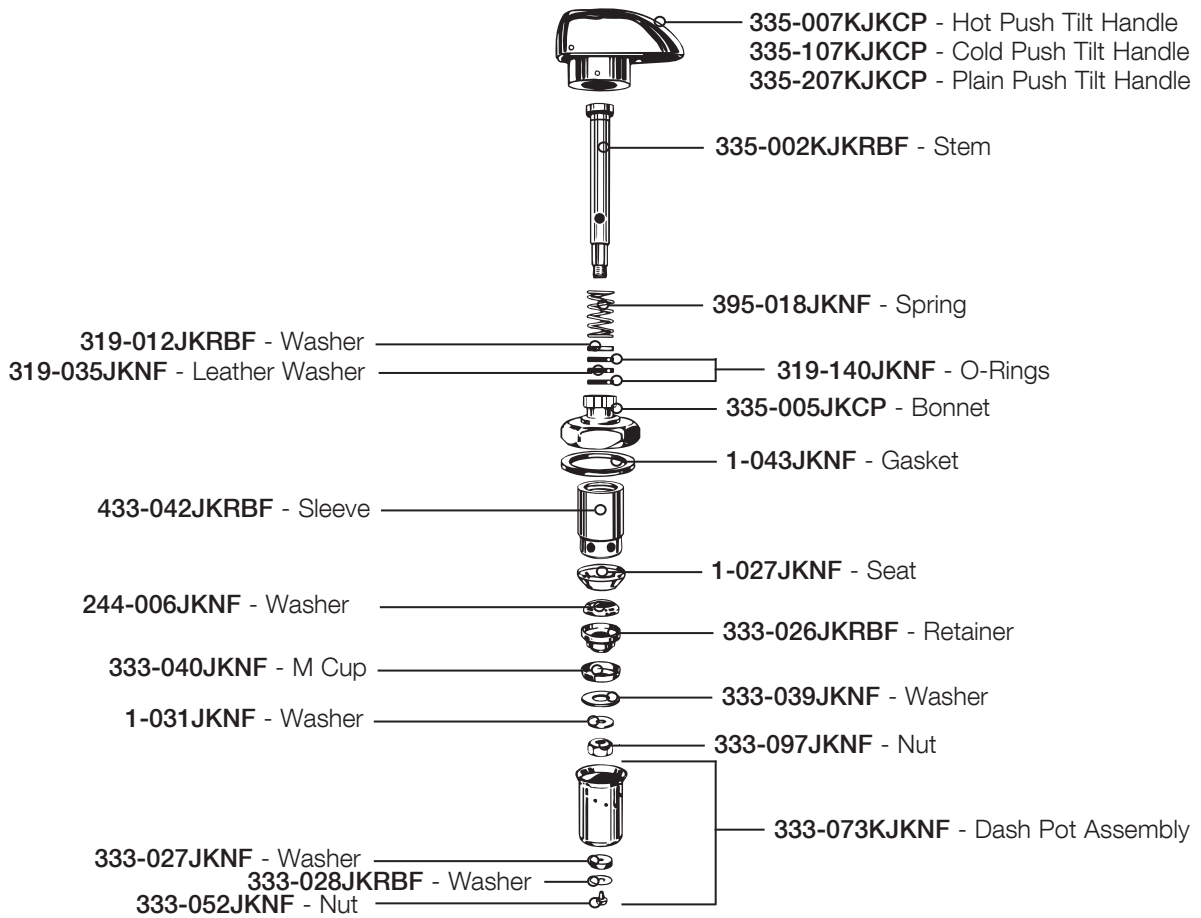


STEP 5 - Reassemble lower portion of cartridge by sliding sleeve (H), seat (I), washer (J), retainer (K), cup (L), washers (M and N) and nut (O) in the same manner as described in Step 2. Lightly grease exterior of cup (L). Tighten nut (O) securely on stem using pin through sleeve (H) and button assembly (A) to contain assembly while tightening. Remove pin when complete. Reposition dash pot (P) on cartridge.



STEP 6 - Replace gasket (G) before placing cartridge in valve body. Be sure gasket (G) is around sleeve (H) before tightening cap (F) to valve body. Turn water on at stop or main valve. Remove aerator. Turn faucet on to "full" allowing sediment to flush from lines and operating cartridge. Replace aerator.

STEP 7 - See page 8 for dashpot timing of Slo-Closing cartridges.



NOTE: See page 9 for disassembly and reassembly of cartridge when renewing components.

Repair Parts Kits

Part No.	Description
333-073KJKNF	Dash Pot Assembly (Adjustable)

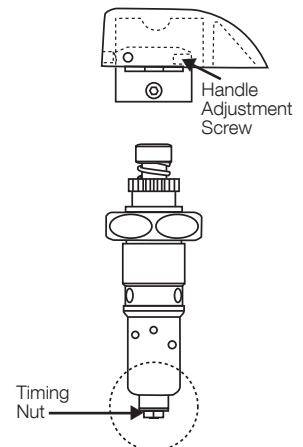
Timing Adjustment on a NAIAD Tip-Tap Slo-Closing Cartridge

We have two adjustments featured on the Tip-Tap Cartridge.

For dashpot adjustments follow step 1.

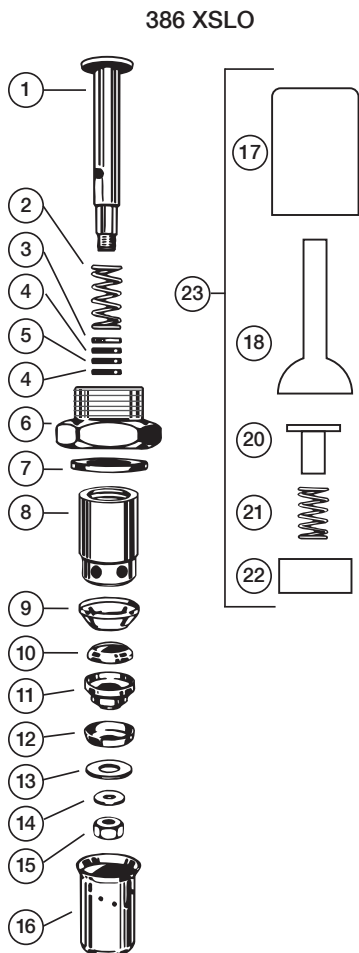
For handle adjustment follow steps 2-3.

- ① By tightening or loosening the 333-052 nut on the lower end of the dashpot, timing adjustment is made. (**Tightening increases running time.** It is suggested that the thickness of the felt washer be approximately 1/16" to 3/32" thick after tightening. This will deliver approximately 6-10 seconds timing. **Loosening decreases running time.**)
- ② Raise up front of tilt-handle to expose screw B. (use #6 allen key)
- ③ Set screw B adjusted all the way in gives maximum running time. Adjust set screw B out counter-clockwise for less running time.

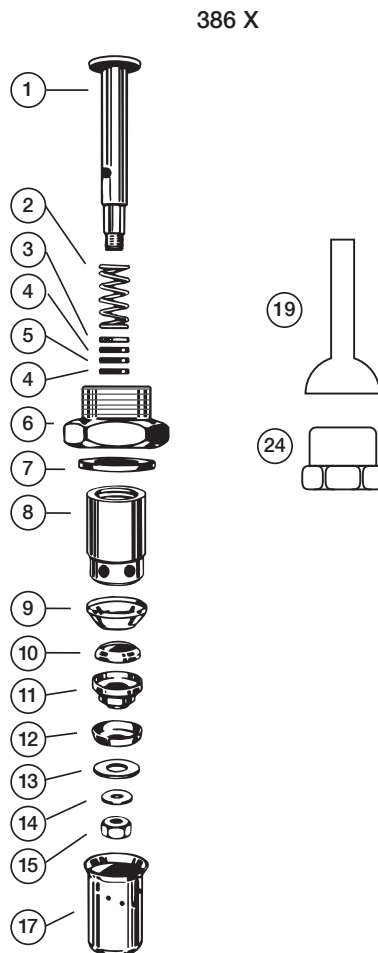


How to Repair a NAIAD™ Cartridge with Dashpot and Oscillating Handle

- To uncover operating cartridges on 386-XSLO urinal valves with non-sag handles, unscrew bonnet (17) and remove entire assembly (23), on self-closing stops as shown on diagram below. For 386-X, remove bonnet (24) and handle (19).
- Shut-off water at main or supply valve if installed.
- Either cartridge can now be removed from body by loosening cap (6) with a flat wrench and lifting entire cartridge from body including the dashpot.
- If leakage is occurring through spout outlet, insert 1/8" diameter pin or pin wrench through hole in stem and with crescent wrench remove stem nut (15) and all parts up to and including (9) seat. Inspect seat washer (10) and replace if necessary, next inspect seat (9) for nicks or water cutting and replace if necessary. If cup washer (12) has been sticking in dashpot, replace also.
- If cartridge has been leaking between oscillating lever and upper cap, remove stem assembly (1) and spring (2) from sleeve (8) and cap (6) by taking out washer (3) from cap, take out packing arrangement which consists of (2) O-Rings (4) with leather washer (5) between O-Rings. Grease stem lightly around packing area and put new O-Rings and packing on stem using same arrangement as indicated, also lubricate O. D. of packing.
- Place stem with spring, washer and packing properly assembled back into cap and sleeve. Now assemble lower cartridge parts in proper relation and insert pin or pin wrench in stem hole again and tighten nut (15). Grease cup (12) with light grease and place cartridge in dashpot.
- We recommend removing and replacing (7) gasket before cartridge is placed in valve body. Place cartridge in body and lock cartridge by tightening cap (6) securely, add oscillating lever bonnet sub-assembly to cartridge.



NOTE: Complete assembly of 386X-SLO cartridge and 386-010K Oscillating Lever Handle assembly for Urinal Valves.



NOTE: Complete assembly of 386X unit and Oscillating Lever and Bonnet for Self-Closing Stops.

Item No.	Part No.	Description
1	386-008JKRBF	Button and Stem Assembly
2	395-018JKNF	Spring
3	319-012JKRBF	Brass Washer
4	319-140JKNF	O-Ring
5	319-035JKNF	Leather Washer
6	618-001JKCP	Cap Nut
7	1-043JKNF	Gasket
8	433-042JKRBF	Sleeve
9	1-027JKNF	Monel Seat
10	244-006JKNF	Rubber Seat Washer
11	333-026JKRBF	Retainer
12	333-040JKNF	Rubber Washer
13	333-039JKNF	Washer
14	1-031JKNF	Stem Washer
15	333-097JKNF	Stem Nut
16	333-073JKNF	Slow Dashpot Assembly
17	333-075JKNF	Slow Dashpot Assembly
18	386-010JKCP	Bonnet
19	386-009JKCP	Ball Handle
20	386-011JKCP	Plunger
21	386-013JKNF	Spring
22	386-014JKRBF	Sleeve
23	386-010KJKCP	Handle Assembly
24	386-005JKCP	Bonnet

Quatern™ Compression Cartridge

- Opens and closes in just a 1/4 turn
- Unique design closes with water pressure
- Standard in all centerset and widespread faucets for sink and lavatory
- ADA Compliant when used with lever or wing handles
- Renewable parts available

Product No.	Description
1-099-245JKNF	Exposed Cap, Short Stem, Right Hand Control-A-Flo
1-100-245JKNF	Exposed Cap, Short Stem, Left Hand Control-A-Flo
1-099XTJKNF	Exposed Cap, Short Stem, Right Hand
1-100XTJKNF	Exposed Cap Short Stem, Left Hand
377-X245LHJKNF	Concealed Cap, Long Stem, Left Hand Control-A-Flo
377-X245RHJKNF	Concealed Cap, Long Stem, Right Hand Control-A-Flo
377-XTLHJKNF	Cap Concealed with Escutcheon, Left Hand
377-XTRHJKNF	Cap Concealed with Escutcheon, Right Hand

Ceramic Cartridge

- Positive 1/4 turn, eliminating handle travel
- Available as a substitute for the Quatern compression cartridge
- ADA Compliant when used with lever or wing handles

Product No.	Description
1-099XKJKNF	Exposed Cap Short Stem, Right Hand
1-100XKJKNF	Exposed Cap Short Stem, Left Hand
377-XKLHJKNF	Cap Concealed Long Stem, Left Hand
377-XKRHJKNF	Cap Concealed Long Stem, Right Hand
420-XJKNF	For 420-CP and 420-ABCP Faucets
2300-XJKNF	For Marathon Single Control Kitchen and Lavatory Faucets

Slow Compression Cartridge

- For finer adjustment of water volume
- Most common in laboratory fittings
- Requires approximately one full turn to open and close completely
- ADA Compliant when used with lever or wing handles

Product No.	Description
217-XTLHJKNF	Exposed Cap, Left Hand, Short Stem
217-XTRHJKNF	Exposed Cap, Right Hand, Short Stem
274-XTLHJKNF	Concealed Cap, Left Hand, Long Stem
274-XTRHJKNF	Concealed Cap, Right Hand, Long Stem
376-CXJKNF	Slow Compression Cartridge with Integral Check Valve
937-XSTNF	Steam Cartridge
962-XJKNF	Needle Point Cartridge for Lab Use
966-XJKNF	Micro Needle Point/Brass Seat Cartridge for Lab Use
966-XSSJKNF	Micro Needle Point/Stainless Steel Seat Cartridge for Lab Use

Metering Self-Closing, Adjustable Cartridge

- Close either upon release or within a 2-15 second cycle time
- Helps reduce water usage in high traffic locations

Product No.	Description
NAIAD™ Cartridges	
333-XPSHJKNF	Exposed Cap, Push Button, Immediate Closure
333-XCOLDJKNF	Exposed Cap, Cold Button, Immediate Closure
333-XHOTJKNF	Exposed Cap, Hot Button, Immediate Closure
333-XSLOCOLDJKNF	Exposed Cap, Cold Button, Adjustable Cycle Time
333-XSLOPSHJKNF	Exposed Cap, Push Button, Adjustable Cycle Time
333-XSLOHOTJKNF	Exposed Cap, Hot Button, Adjustable Cycle Time
335-XJKNF	Exposed Cap "Tip-Tap" Cartridge, Adjustable Cycle Time
409-XJKNF	Exposed Cap "Tip-Tap" Cartridge, Adjustable Cycle Time
Pedal Box Cartridges	
625-XJKNF	Pedal Box Cartridge, No Index, High Flow Characteristics
628-XJKNF	Pedal Box Cartridge, No Index, Low Flow Characteristics
MVP™ Adjustable Timing Cartridges	
665-190KJKNF	MVP Actuator Assembly
667-080KJKNF	MVP Actuator Assembly and MVP Valve with Filter Screen
671-XJKNF	MVP Valve with Filter Screen
Miscellaneous Cartridges	
386-LDPXJKNF	Glass Filler Cartridge, Less Dashpot
386-XSLOJKNF	Urinal Valve Cartridge
386-XSLOCJKNF	Urinal Valve Cartridge With Handle and Button Assembly
745-XJKNF	Knee Valve Cartridge

KLO-SELF Self-Closing Vandal Resistant Cartridge

- Self-closing, closes upon release of the handle by the user

Product No.	Description
825-XJKNF	For Concealed Cap Installations, Instant Closing
826-XJKNF	For Exposed Cap Installations, Instant Closing

KLO-SELF cartridges are interchangeable with right or left hand installation.

ECAST®

Replacement Cartridges for Existing ECAST Installations

Chicago Faucets has a line of cartridges that should be used to repair or update any existing ECAST product installation.

These cartridges are designed and manufactured to the exact specifications to maintain the certified status of your existing ECAST product installations.

All replacement cartridges for existing ECAST products feature distinctive markings to make them easier to identify on the job site.

Replacement Cartridges for Existing ECAST Products

Cartridges	
1-099XKBL12JKABNF	217-XTRHJKABNF
1-099XKJKABNF	377-XKLHBL12JKABNF
1-099XTBL12JKABNF	377-XKLHJKABNF
1-099XTJKABNF	377-XKRHBL12JKABNF
1-100XKBL12JKABNF	377-XKRHJKABNF
1-100XKJKABNF	377-XTLHBL12JKABNF
1-100XTBL12JKABNF	377-XTLHJKABNF
1-100XTJKABNF	377-XTRHBL12JKABNF
217-XTLHBL12JKABNF	377-XTRHJKABNF
217-XTLHJKABNF	628-XJKABNF
217-XTRHBL12JKABNF	



Replacement cartridges for existing ECAST installations feature two engraved rings around the top of the cartridge sleeve.

Repair Kit for Quatum™ and Slow Compression Operating Cartridges



Jiffy Repair Kit 1277-D	One Minute Repair Kit 1273-NF	Junior Repair Kit 1276-NF	Description	Part No.
-	4	1	Complete Left hand (HOT) Cartridges	1-100XTJKNF
-	4	1	Complete Right Hand (COLD) Cartridges	1-099XTJKNF
-	1	-	Complete Left Hand Long Stem Cartridge	377-XTLHJKNF
-	1	-	Complete Right Hand Long Stem Cartridge	377-XTRHJKNF
-	3	1	Left Hand Stem (HOT)	1-310KJKBNF
-	3	1	Right Hand Stem (COLD)	1-311KJKBNF
-	1	-	Left Hand Long Stem	274-110KJKBNF
-	1	-	Right Hand Long Stem	274-111KJKBNF
-	2	-	Left Hand (HOT) Sleeves	2-328JKRBF
-	2	-	Right Hand (COLD) Sleeves	2-329JKRBF
-	50	25	Seats	1-327JKNF
4	100	50	Seat Washers	1-021JKNF
2	-	-	Brass Washers	93-031JKRBF
-	25	3	Washer Retainers	1-022JKNF
2	24	9	Brass Washer	93-131JKRBF
2	24	9	O-Rings	1-219JKNF
2	24	25	O-Rings	1-328JKNF
-	4	2	Chrome Plated Caps	1-214JKCP
-	6	-	Handle Screws	420-010JKRCF
4	12	6	Stem Nuts	333-097JKNF
-	12	6	Stem Nut Washers	1-031JKNF
2	24	6	Cap Thread Gaskets	2-043JKNF
2	-	-	Gasket	1-043JKNF
2	48	9	O-Ring	1-519JKNF

Repair Kit for KLO-SELF Type Cartridges



Jiffy Repair Kit #847-D	One-Minute Repair Kit #883-NF	Junior Repair Kit #884-NF	Description	Part No.
-	12	2	Plungers	823-001JKNF
-	4	-	Sleeves	823-002JKRBF
-	6	2	Cap Nuts, Chrome Plated	823-004JKCP
-	6	2	Stems	585-001JKBNF
-	6	2	Bonnets	826-101JKRCF
-	12	2	Packing Glands	711-007JKRBF
4	16	4	O-Rings	319-140JKNF
2	8	2	Leather Packing	319-035JKNF
2	18	2	Springs	823-010JKNF
-	12	2	Springs	823-013JKNF
2	100	25	Soft Seat Washers	244-006JKNF
-	25	6	Handle Screws	420-010JKRCF
-	20	6	Cap Thread Gaskets	1-043JKNF
2	50	25	Seats	1-027JKNF
-	25	15	Washer Retainers	1-022JKNF
-	18	6	Stem Nuts	333-097JKNF
-	16	6	Stem Nut Washers	1-031JKNF
2	20	6	O-Rings	823-015JKNF

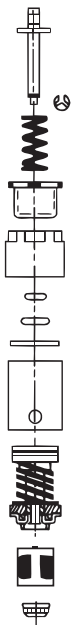
Repair Kit for NAIAD™ Push Button & Oscillating Handle Operating Cartridges



Jiffy Repair Kit #849-D	One-Minute Repair Kit #820-NF	Junior Repair Kit #821-NF	Description	Part No.
—	4	2	Complete NAIAD Cartridges	333-XPSHJKNF
2	4	2	Springs	395-018JKNF
—	4	—	Slow Dash Pot Assembly	333-073KJKNF
2	20	10	Cup Washers	333-040JKNF
—	12	6	Guide Washers	333-039JKNF
—	12	4	Washer Retainers	333-026JKRBF
—	12	6	Brass Washers	319-012JKRBF
4	14	6	O-Rings	319-140JKNF
2	7	3	Leather Packing	319-035JKNF
2	50	25	Soft Seat Washers	244-006JKNF
—	2	1	Pin Wrenches	244-025JKNF
—	6	3	Stem Nuts	333-097JKNF
—	6	3	Stem Nut Washers	1-031JKNF
2	12	6	Seats	1-027JKNF
—	2	—	Sleeves	433-042JKRBF
2	20	6	Cap Thread Gaskets	1-043JKNF
—	4	2	Dashpot	333-075JKNF

MVP™ Repair Kits

(See illustration on page 6 for details)



Part No.	Description
665-190KJKNF	Actuator Assembly
671-XJKNF	Metering Valve Unit
668-100KJKNF	(2) E Ring Retainer, Retainer Ring, Actuator O-Ring, Cartridge O-Ring, Cap Sealing Washer, Large Filter and Small Filter
667-080KJKNF	One Each of Kits 665-190KJKNF and 671-XJKNF



Chicago Faucets, a member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sports facilities. Whatever your requirements may be, Chicago Faucets extensive standard and made-to-order product offering are designed to meet any commercial application.

The Chicago Faucet Company
2100 South Clearwater Drive
Des Plaines, IL 60018
Phone: 847/803-5000
Fax: 847/803-5454
Technical: 800/832-8783
www.chicagofaucets.com

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation.

La instalación se debe hacer solo de acuerdo con los códigos de plomería locales. Nivele bien todas las tuberías antes de instalar.

L'installation doit se faire conformément aux codes de plomberie locaux. Videz tous les tuyaux entièrement avant de commencer l'installation.

Limited Warranty

The CHICAGO FAUCET COMPANY ("Chicago Faucets") extends to the original consumer the following warranties for Genuine Chicago Faucets manufactured products and components, or other components under the Chicago Faucets Warranties, (collectively, the "Products").

Lifetime Faucet Warranty The "Faucet", defined as any metal cast, forged, stamped or formed portion of the Product, not including electronic or moving parts or water restricting components, or other components covered under the Chicago Faucet warranties, is warranted against defects for the life of the product.

Five Year Cartridge Warranty The "Cartridge", defined as the metal portion of any Product typically referred to by the product numbers containing 1-099X, 1-100X, 217-X, 377-X, 274-X excluding any rubber or plastic components, is warranted against manufacturing defects for a period of five (5) years from the date of Product purchase.

One Year Finish Warranty The finish of the Product is warranted against manufacturing defects for a period of one (1) year from the date of Product purchase.

Garantía limitada

CHICAGO FAUCET COMPANY ("Chicago Faucets") extiende al consumidor original las siguientes garantías para los productos y los componentes fabricados de Genuine Chicago Faucets, o cualquier otro componente de las garantías de Chicago Faucets, (en conjunto, los "Productos").

Garantía de por vida del grifo El "Grifo", definido como cualquier porción formada de metal fundido, forjado, estampado del Producto, que no incluye piezas electrónicas o móviles, o componentes limitados por agua, u otro componente que se incluya en las garantías de Chicago Faucet, está garantizada por los defectos de la vida del producto.

Garantía del cartucho de cinco años El "Cartucho", definido como la porción de metal de cualquier Producto generalmente indicado por los números del producto con 1-099X, 1-100X, 217-X, 377-X, 274-X sin contar ningún componente de goma o de plástico, está garantizado por defectos de fabricación durante cinco (5) años a partir de la fecha de compra del Producto.

Garantía para el acabado de un año El acabado del Producto está garantizado por defectos de fabricación durante un (1) año a partir de la fecha de compra del Producto.

Garantie limitée

CHICAGO FAUCET COMPANY (Chicago Faucets) offre au consommateur initial les garanties suivantes pour les produits fabriqués par Genuine Chicago Faucets et leurs composants, ou les autres composants couverts par les garanties de Chicago Faucets (collectivement appelés les « produits »).

Garantie à vie du robinet: Le robinet, défini comme toute partie en métal moulé, forgée, estampée ou formée du produit, mais ne comprenant pas les pièces électroniques ou amovibles ni les composants servant à contenir l'eau, ni les autres composants couverts par les garanties de Chicago Faucet, est garanti contre les défauts pendant la durée de vie du produit.

Garantie de cinq ans de la cartouche : La cartouche est définie comme la portion métallique de tout produit auquel on fait habituellement référence par les numéros de produit contenant 1-099X, 1-100X, 217-X, 377-X, 274-X, à l'exception des composants en caoutchouc ou en plastique, et elle est garantie contre les défauts de fabrication pour une période de cinq (5) ans à compter de la date d'achat du produit.

Garantie de un an sur le fini : Le fini du produit est garanti contre les défauts de fabrication pour une période de un (1) an à partir de la date d'achat du produit.

**CHICAGO
FAUCETS**

a Geberit company

Care & Maintenance

All Chicago Faucet fittings are designed and engineered to meet or exceed industry performance standards. Care should be taken cleaning this product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap with warm water for cleaning and protecting the life of Chicago Faucets fittings.

Cuidado y mantenimiento

Todos los accesorios de Chicago Faucet están diseñados para cumplir o superar las normas de rendimiento de la industria. Este producto se debe limpiar con cuidado. No utilice limpiadores abrasivos, productos químicos o solventes ya que pueden dañar la superficie. Para limpiar y proteger la vida útil de los accesorios Chicago Faucet, utilice jabón suave con agua tibia.

Entretien

Tous les accessoires Chicago Faucet sont conçus et élaborés pour respecter et dépasser les normes de rendement de l'industrie. Ce produit doit être nettoyé soigneusement. N'utilisez pas de produits nettoyants abrasifs, de produits chimiques ni de solvants, ils risqueraient d'endommager la surface. Utilisez un savon doux et de l'eau tiède pour nettoyer et assurer la durée de vie des accessoires Chicago Faucets.



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**CHICAGO
FAUCETS**

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Installation Instructions for WIDESPREAD FITTINGS

Models: 201, 786

Instrucciones para la instalación de ACCESORIOS DE LAVABO

Los modelos: 201, 786

Instructions pour l'installation des ACCESSOIRES DU ROBINET À GRAND ÉCARTEMENT

Modèles : 201, 786



Widespread Faucet Fittings / Accesorios de grifos de lavamanos / Accessoires du robinet à grand écartement

Widespread Faucet Installation Instructions —

These installation instructions apply to all products with the following fitting base numbers: 201, 786

Instrucciones de instalación del grifo del lavamanos —

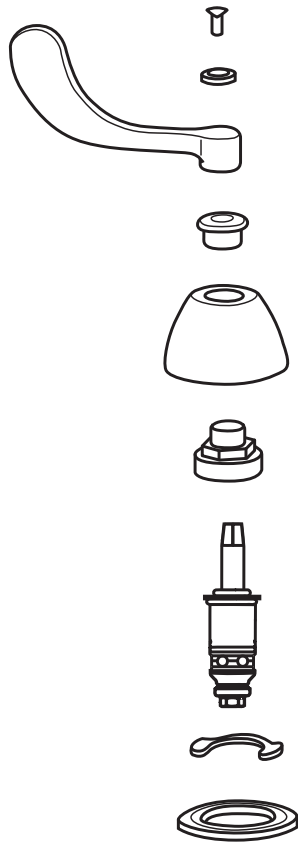
Estas instrucciones de instalación se aplican a todo los productos con los siguientes números base de accesorios: 201, 786

Instructions pour l'installation du robinet à grand écartement —

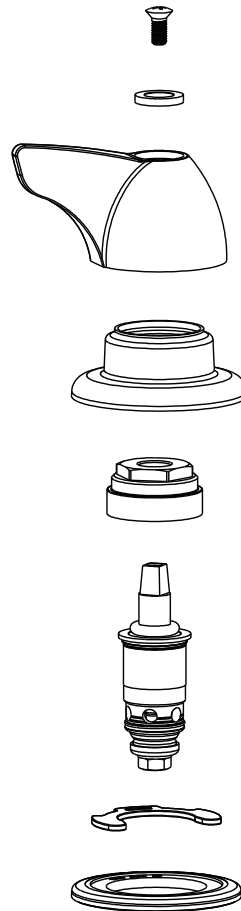
Ces instructions pour l'installation s'appliquent à tous les produits dont les accessoires ont les numéros de base suivants : 201, 786

Exploded Views: / Vista despiezada / Vues éclatées

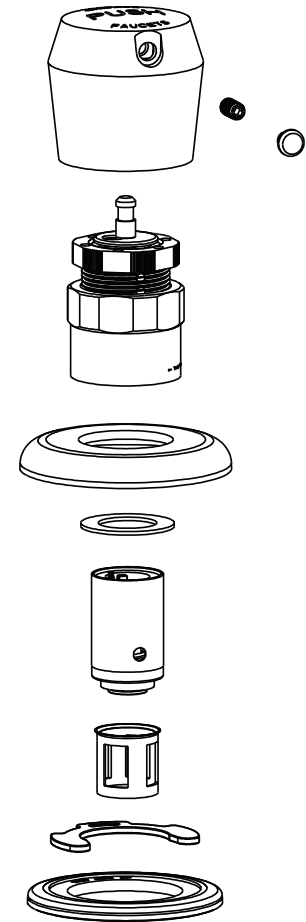
Tall Stem Cartridge / Cartucho de barra alta / Cartouche avec tige longue



Short Stem Cartridge / Cartucho de barra corta / Cartouche avec tige courte

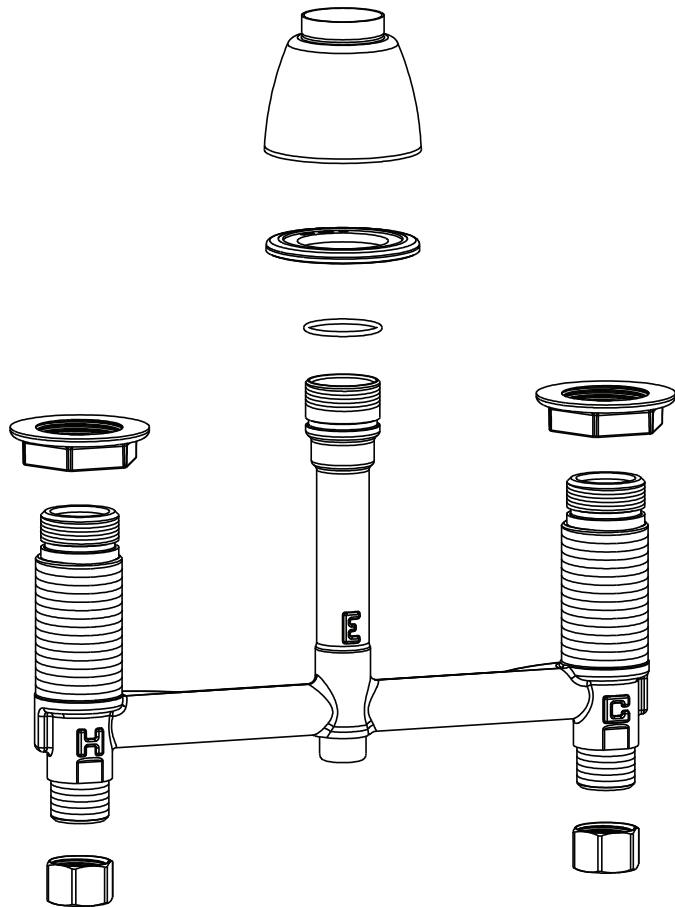


Metering / Medición / Avec cartouche de dosage



Other Configurations: / Otras Configuraciones: / Autres Configurations :

**8" Rigid / Rígido de 20 cm /
Avec tuyaux rigides, de 20,32 cm**



**8" Rigid with Third Water Hook-up /
Rígido de 20 cm con un tercer gancho para agua /
Avec tuyaux rigides, de 20,32 cm et troisième prise d'eau**

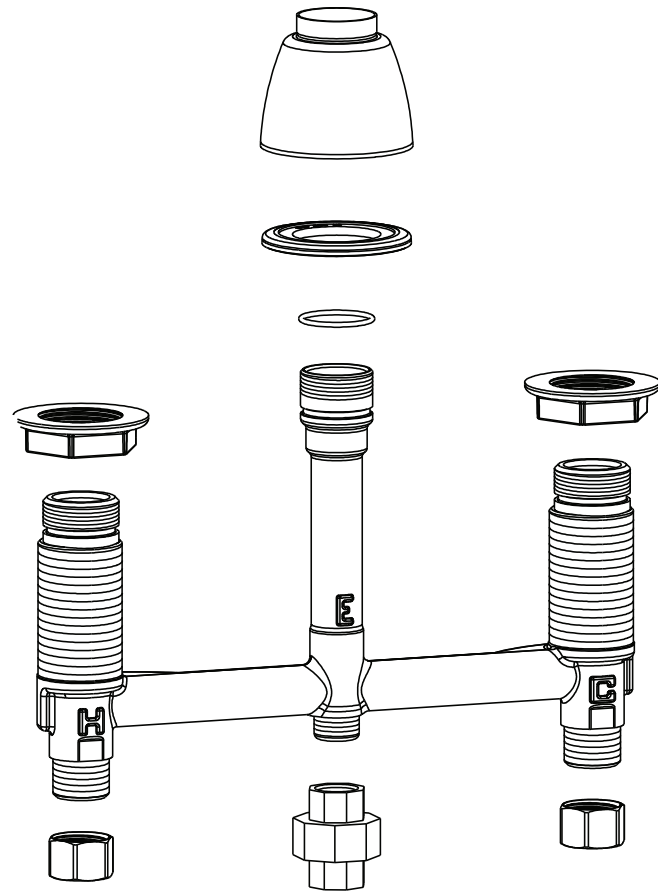
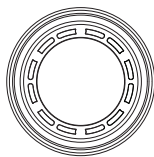


Illustration A: / ilustración A: / l'illustration A :

This side up /
Este lado arriba /
Ce côté en bas



This side down /
Este lado abajo /
Ce côté en haut

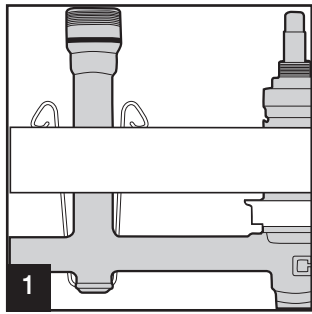


Sealing washer must be placed on mounting surface as indicated. /

La arandela de sellado debe ser colocada en el surface creciente como indicado. /

Sceller la rondelle doit être placée sur monter de surface comme indiqué.

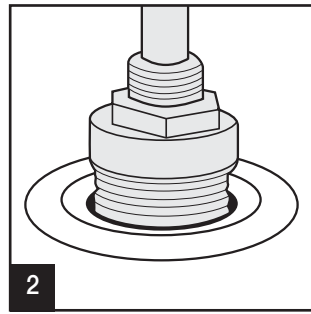
One-Piece Body Installation / De una sola pieza de instalación del Órgano / Installation du corps monopièce



1
Attach hanger to body and hang faucet from spout hole in sink. Hand tighten mounting nuts.

Coloque la suspensión en el cuerpo y colgar la llave de agua el agujero del surtidor en el fregadero. Apriete a mano las tuercas de montaje.

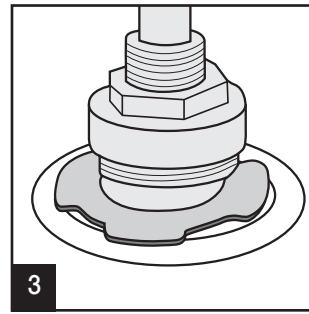
Fixez le support au corps et accrochez le robinet en utilisant le trou du bec dans l'évier. Serrez les écrous de montage à la main.



2
Place a sealing washer over each handle stem. Be sure to have recessed rim of washer facing up. See Illustration A.

Coloque una arandela de sellado en cada espiga de la manija. Asegúrese de tener a empotrar el borde de la arandela hacia arriba. Vea ilustración A.

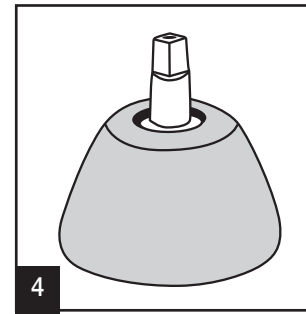
Posez une rondelle d'étanchéité sur la tige de chaque poignée. Assurez-vous que le bord renforcé de la rondelle est face vers le haut. Voir A d'illustration.



3
Insert retaining clips firmly into channel on each valve body. Remove hanger from spout hole.

Insértez les clips fermement en el canal en cada cuerpo de la válvula. Retirar el sostén en la salida del agujero.

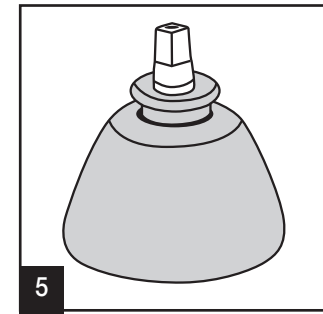
Insérez les attaches de retenue fermement dans la rainure du corps de chaque robinet. Retirez le support du trou du bec.



4
Place handle escutcheons over handle stems. Handles should cover the sealing washers.

Coloque la manija chapetones sobre manejar los tallos. Maneja debe cubrir las arandelas de sellado.

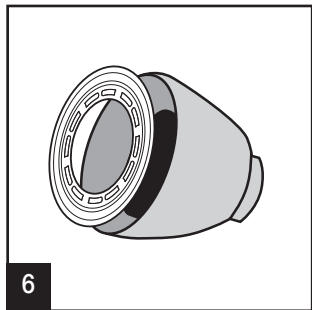
Placez les écussons de la poignée sur les tiges de la poignée. Les poignées devraient couvrir les rondelles d'étanchéité.



5
Place a hold-down nut onto each handle stem and hand tighten.

Coloque una tuerca de apriete en cada espiga de la manija y apriete la mano.

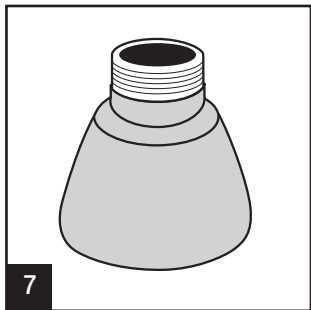
Posez un écrou de retenue sur la tige de chaque poignée et serrez à la main.



6
Place spout seat washer into spout escutcheon. See illustration A.

Placez le bec rondelle siège en rosace de bec. Vea ilustración A.

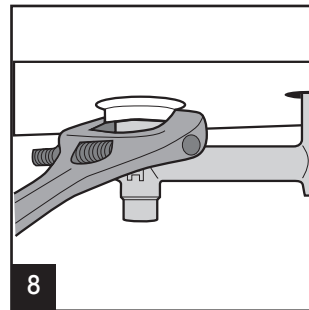
Placez la rondelle de siège du bec sur l'écusson du bec. Voir A d'illustration.



7
Place spout escutcheon over spout stem until it rests flush to surface.

Coloque el pico chapetón sobre surtidor madre hasta que quede a ras de superficie.

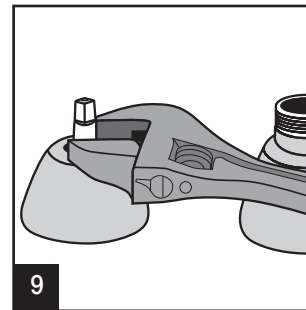
Placez l'écusson du bec sur la tige du bec jusqu'à ce qu'il soit de niveau avec la surface.



8
Using adjustable wrench, tighten underbody nuts.

Usando una llave ajustable, apriete las tuercas de la parte de abajo.

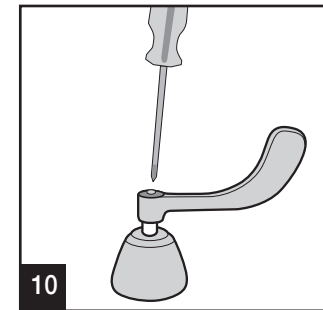
À l'aide d'une clé à molette, serrez les écrous de dessous.



9
Using adjustable wrench, tighten handle hold-down nuts.

Usando una llave ajustable, apriete las tuercas de manija de sujeción.

À l'aide d'une clé à molette, serrez les écrous de retenue de la poignée.

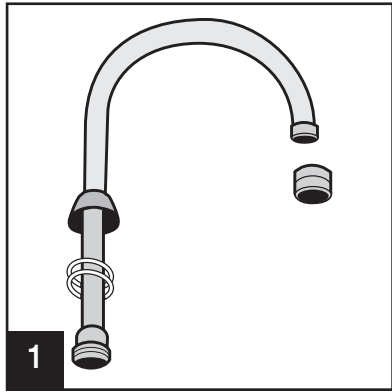


10
Align both handles on stem as desired. Insert index buttons, screws, and tighten.

Alinear las dos asas en el tallo como se desee. Insertar botones de índice, tornillos y apriete.

Alignez les deux poignées sur la tige comme vous le souhaitez. Insérez les capuchons indicateurs, les vis, puis serrez.

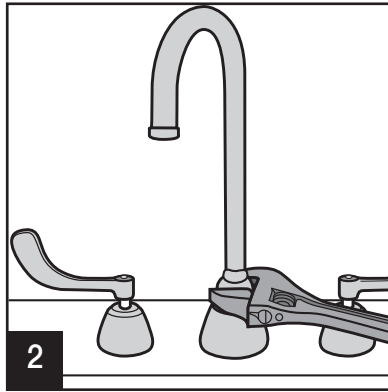
Swing Spout / Boquilla giratoria / Bec pivotant



1
Remove outlet from spout. Place two split rings on spout near the base. Slide spout nut onto spout.

Retire la salida de la boquilla. Coloque dos anillos divididos en la boquilla cercana a la base. Deslice la tuerca de la boquilla hasta la boquilla.

Retirez l'embout de sortie du bec. Posez deux bagues fendues sur le bec près de la base. Glissez l'écrou du bec sur le bec.

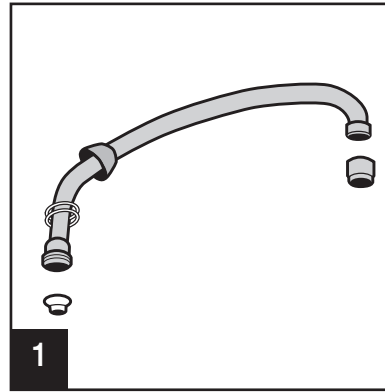


2
Place spout onto valve body until fully seated. Tighten spout nut with wrench. Connect water supplies, flush line, and attach outlet.

Coloque la boquilla sobre el cuerpo de la válvula hasta que esté completamente en su lugar. Apriete la tuerca de la boquilla con la llave inglesa. Conecte la tubería de suministro y descarga, y coloque la salida.

Posez le bec sur le corps du robinet jusqu'à ce qu'il soit bien en place. Serrez l'écrou du bec à l'aide d'une clé. Raccordez les conduites d'alimentation en eau, rincez la conduite, puis remettez en place l'embout de sortie.

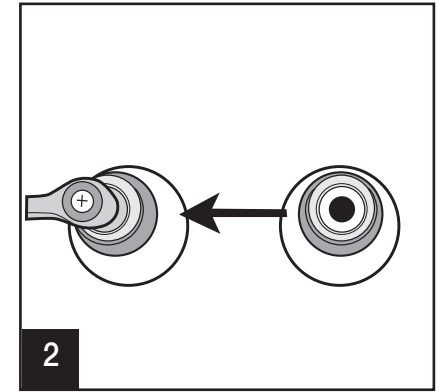
Restricted Swing Spout / Boquilla giratoria con límite / Bec à pivot restreint



1
Remove outlet from spout. Place two split rings on spout tubing near base. Slide spout nut onto spout.

Retire la salida de la boquilla. Coloque dos anillos divididos en las tuberías de la boquilla cercana a la base. Deslice la tuerca de la boquilla hasta la boquilla.

Retirez l'embout de sortie du bec. Posez deux bagues fendues sur la base près du tuyau du bec. Glissez l'écrou du bec sur le bec.

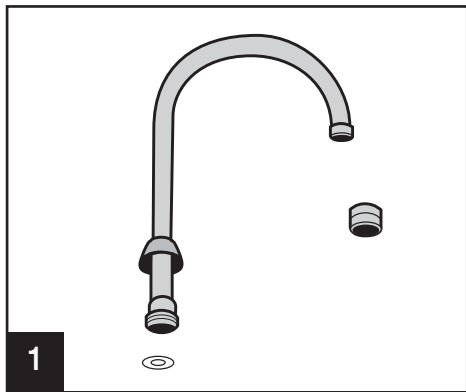


2
Place restricted swing adaptor into valve body and align with internal valve body tab. Position small opening (70°) or large opening (120°) toward "hot" side of body.

Coloque el adaptador giratorio con límites en el cuerpo de la válvula y alinee con la ranura del cuerpo de la válvula interna. Coloque la pequeña abertura (70°) o la abertura grande (120°) contra el lado "caliente" del cuerpo.

Posez l'adaptateur à pivot restreint sur le corps du robinet et alignez-le sur la languette du corps du robinet interne. Placez la petite ouverture (70 °) ou la grande ouverture (120 °) en direction du côté « eau chaude » du corps.

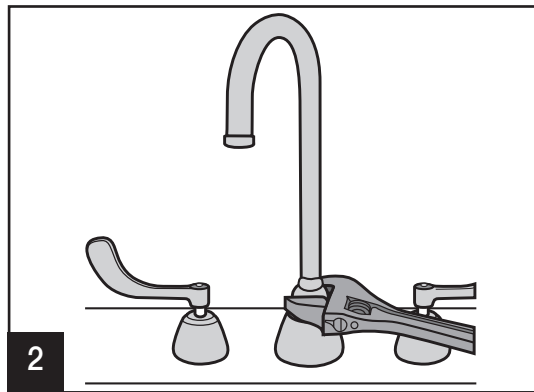
Rigid Spout / Boquilla rígida / Bec fixe



1
Remove outlet from spout. Slide spout nut onto spout. Place solid white washer into base outlet.

Retire la salida de la boquilla. Deslice la tuerca de la boquilla hasta la boquilla. Coloque la arandela sólida blanca sobre la salida base.

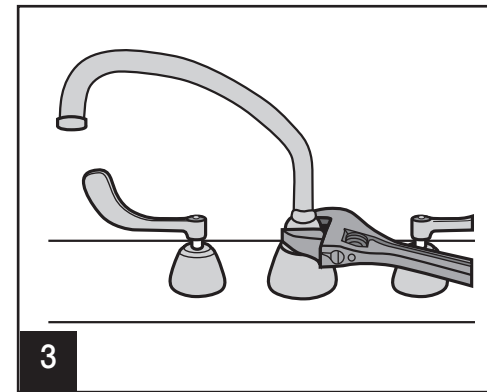
Retirez l'embout de sortie du bec. Posez deux bagues fendues sur la base près du tuyau du bec. Glissez l'écrou du bec sur le bec.



2
Place spout onto valve body until fully seated. Tighten spout nut with wrench. Connect water supplies, flush line, and attach outlet.

Coloque la boquilla sobre el cuerpo de la válvula hasta que esté completamente en su lugar. Apriete la tuerca de la boquilla con la llave inglesa. Conecte la tubería de suministro y descarga, y coloque la salida.

Posez le bec sur le corps du robinet jusqu'à ce qu'il soit bien en place. Serrez l'écrou du bec à l'aide d'une clé. Raccordez les conduites d'alimentation en eau, rincez la conduite, puis remettez en place l'embout de sortie.



3
Place spout into stem. Tighten spout nut with wrench. Connect water supplies, flush line, and attach outlet.

Coloque la boquilla en la barra. Apriete la tuerca de la boquilla con la llave inglesa. Conecte la tubería de suministro y descarga, y coloque la salida.

Posez le bec sur la tige. Serrez l'écrou du bec à l'aide d'une clé. Raccordez les conduites d'alimentation en eau, rincez la conduite, puis remettez en place l'embout de sortie.

Timing Adjustment on an MVP Metering Cartridge

Ajuste de temporización en un cartucho de medición MVP /

Réglage de la durée de distribution d'une cartouche de dosage MVP

- 1 With cartridge and handle installed in body and water supply turned on, purge cartridge of air by pushing handle completely down 4-8 times repeatedly, then check timing cycle.

Después de haber instalado el cartucho y la manija en el cuerpo y de haber encendido el suministro de agua, presione la manija por completo hacia abajo 4 a 8 veces seguidas para purgar el cartucho de aire. Luego, verifique el tiempo.

Pendant que la cartouche et la poignée sont installées sur le corps et que l'alimentation en eau est activée, évacuez l'air de la cartouche en poussant la poignée en bas complètement de quatre à huit fois, à répétition, puis vérifiez le cycle de distribution.

- 2 To change cycle time, remove index button, then handle using a 3/32 hex wrench. (Figure 'A')

Para cambiar el tiempo de ciclo, retire el botón indicador y luego la manija con una llave Allen de 3/32. (Figura 'A')

Pour modifier le cycle de distribution, retirez le capuchon indicateur, puis la poignée à l'aide d'une clé hexagonale de 3/32 po. (Figure A)

- 3 Using your fingers change height of adjustment nut by 1/4 turn only. Turn adjustment nut clockwise to increase cycle time or counter-clockwise to decrease cycle time. (Figure 'B')

Con los dedos, cambie la altura de la tuerca de ajuste con un solo giro de 1/4. Gire la tuerca de ajuste en dirección de las manecillas del reloj para aumentar el tiempo, o gírela en dirección contraria para disminuirlo. (Figura 'B')

Utilisez vos doigts pour modifier la hauteur de l'écrou de réglage en le tournant de un quart de tour seulement. Tournez l'écrou de réglage dans le sens des aiguilles d'une montre pour augmenter la durée du cycle ou dans le sens contraire des aiguilles d'une montre pour en diminuer la durée. (Figure B)

- 4 Reinstall handle and verify desired cycle time. NOTE: TIMING MUST BE CHECKED WITH HANDLE IN PLACE.

Vuelva a colocar la manija y verifique que el tiempo sea el deseado. NOTA: EL TIEMPO SE DEBE REVISAR CON LA MANIJA EN SU LUGAR.

Réinstallez la poignée et vérifiez si la durée du cycle est celle que vous souhaitez. REMARQUE : LA DURÉE DOIT ÊTRE VÉRIFIÉE ALORS QUE LA POIGNÉE EST EN PLACE.

- 5 If additional adjustment is necessary, repeat steps 3 and 4 until desired cycle time is achieved.

Si necesita de un ajuste adicional, repita los pasos 3 y 4 hasta obtener el tiempo deseado.

Si un réglage supplémentaire est nécessaire, répétez les étapes 3 et 4 jusqu'à ce que vous ayez la durée de cycle souhaitée.

- 6 Attach handle and tighten screw. If index button is included, snap into handle.

Instale el mango en el vástago del actuante, luego apriete firmemente el tornillo de ajuste con el mango en la posición inferior. Oprima el botón o tapa de presión hasta que se ajuste en su sitio.

Insérer la manette sur la tige de l'actionneur et serrer la vis de réglage en positionnant la manette vers le bas. Appuyer sur la coiffe indicatrice de la manette jusqu'à ce qu'elle soit assise.

Note: Some new installations might produce a slight closing noise. This is normally the result of air trapped in the cartridge and noise will dissipate over time.

Nota: Algunas instalaciones nuevas podrían generar un leve ruido al cerrar. Generalmente, se produce debido al aire atrapado en el cartucho. El ruido desaparecerá con el tiempo.

Remarque : Certaines nouvelles installations pourraient produire un léger bruit de fermeture. Cela est normalement dû au fait que de l'air est emprisonné dans la cartouche et le bruit cessera au fil du temps.

FIGURE 'A' / ILUSTRACIÓN 'A' / FIGURE « A »

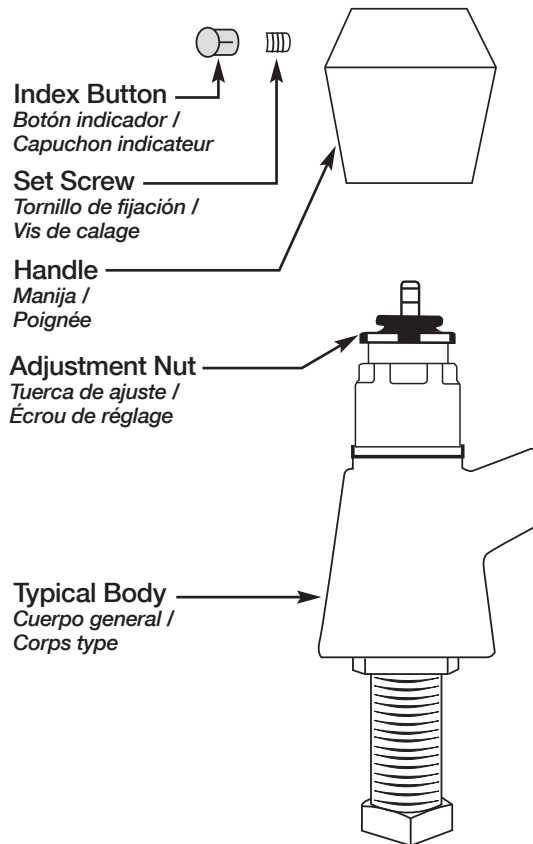
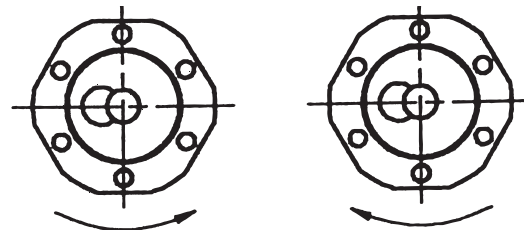


FIGURE 'B' / ILUSTRACIÓN 'B' / FIGURE « B »

How To Adjust (Top View)

Cómo hacer el ajuste (vista desde arriba) / Comment faire le réglage (vue d'en haut)



MVP Metering Cartridges / Cartuchos de medición MVP / Cartouches de dosage MVP

1. If filter and lower valve cartridge have been removed from fitting, replace them by inserting filter first.

Si se retiró el filtro y el cartucho de la válvula inferior del accesorio, para colocarlo nuevamente, ingrese primero el filtro. Si le filtre et la cartouche du robinet inférieur ont été retirés du raccord, remplacez-les en commençant par le filtre.

2. If gasket has been removed from the actuator assembly, replace it by inserting into bottom of actuator assembly.

Si se retiró la empaquetadura del ensamble del activador, reemplácela e insérzela en la parte inferior del ensamble del activador.

Si le joint a été retiré de l'ensemble de l'actionneur, remplacez-le en l'insérant au bas de l'ensemble de l'actionneur.

3. Assemble actuator assembly to body and tighten to 12-15 FT. LBS. torque.

Arme el ensamble del activador al cuerpo y apriete a 1,81-2,26 Kgf M.

Assemblez l'ensemble de l'actionneur au corps et serrez jusqu'à ce que le couple soit de 12 à 15 LB-PI.

4. Assemble handle and check timing, adjust if necessary.

Arme la manija y verifique el tiempo, ajuste de ser necesario. Assemblez la poignée et vérifiez la durée de distribution, réglez-la au besoin.

5. Tighten set screw with a 3/32 allen wrench.

Apriete el tornillo de fijación con una llave Allen de 3/32. Serrez la vis de calage à l'aide d'une clé hexagonale de 3/32 po.

6. Insert index button into handle.

Coloque el botón indicador en la manija. Insérez le capuchon indicateur sur la poignée.

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REPAIR PARTS

FITTING NO.

786-GN1AE3ABCP

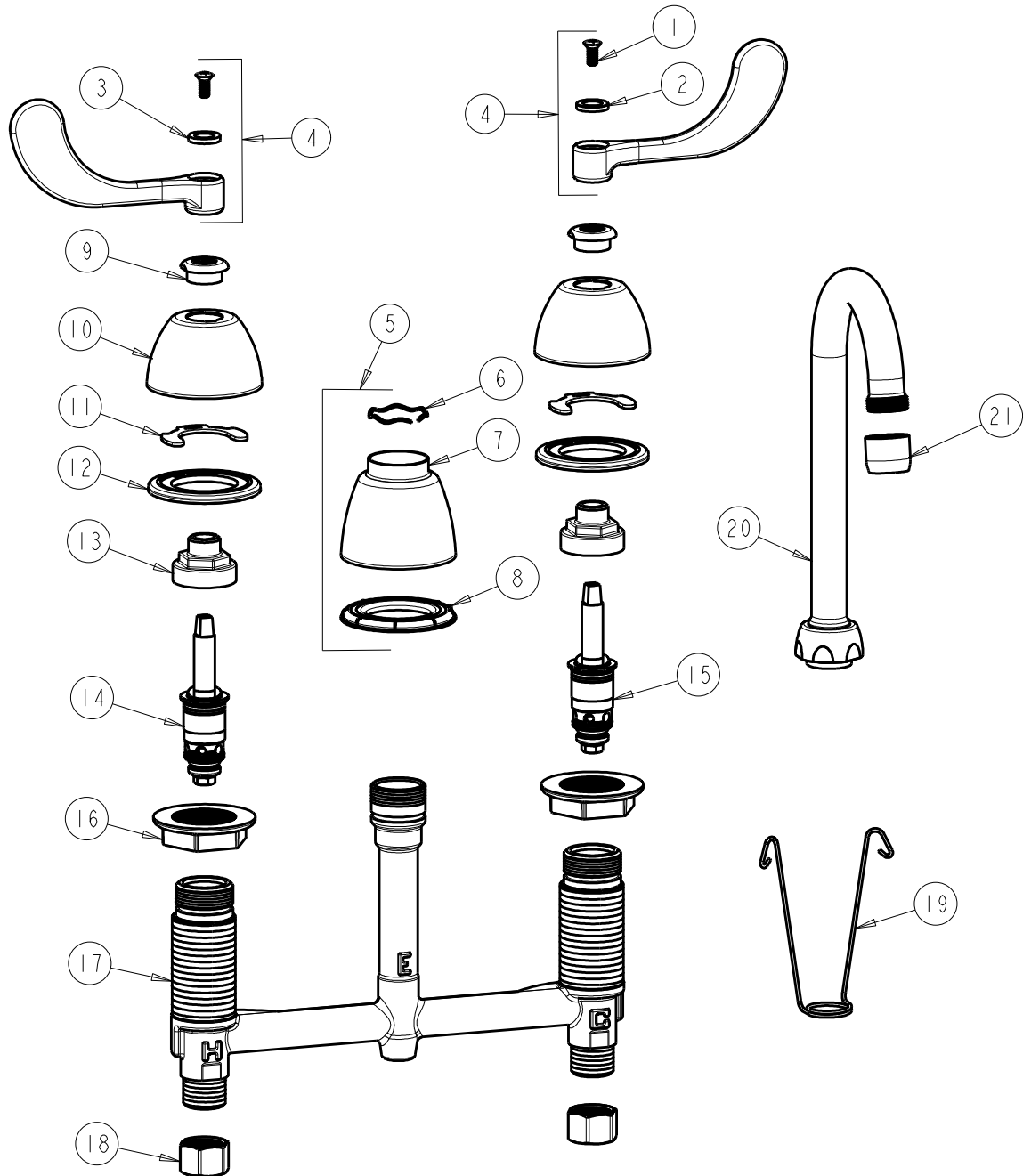
SUBMITTED MODEL NO.

BY: SID DATE: 07-01-11

CHK: REV: 04-30-12

ITEM NO.

FOR TECHNICAL ASSISTANCE
1-800-TEC-TRUE (1-800-832-8783)



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	420-010JKRCF	SCREW, 10-32 UNC PH 1/2	12	888-026JKNF	WASHER, SEALING
2	633-123JKNF	INDEX BUTTON (BLUE)	13	274-014JKRBF	NUT, CAP
3	633-023JKNF	INDEX BUTTON (RED)	14	377-XTLHJKABNF	LH QUATURN CARTRIDGE
4	317-PRJKCP	HANDLE, 4" WRISTBLADE (PAIR)	15	377-XTRHJKABNF	RH QUATURN CARTRIDGE
5	785-400JKCP	SPOUT ESCUTCHEON KIT	16	250-004JKNF	LOCKNUT
6	50-038JKNF	WAVE WASHER	17	---	BODY, VALVE
7	785-400JKCP	ESCUTCHEON, SPOUT BASE	18	49-005JKRBF	COUPLING NUT
8	888-027JKNF	SPOUT ESCUTCHEON WASHER	19	200-008JKNF	HANGER
9	422-113JKCP	ESCUTCHEON NUT	20	GN1AJKCP	SPOUT
10	250-082JKCP	ESCUTCHEON	21	E3JKCP	SOFTFLO AERATOR 2.2 GPM
11	200-009JKNF	CLIP, RETAIN			