

AQUASPEC® FAUCETS

MODEL - Z86000 SERIES
4" CENTERSET METERING MIXING FAUCET
US PATENT PENDING



TECHNICAL INFORMATION

FLOW: 0.25 GPC MAXIMUM; PRESET AT FACTORY TO 10 SECOND @ 80 PSI; ADJUSTABLE CYCLE TIME
MAXIMUM PRESSURE: 125 PSI
MAXIMUM TEMPERATURE: 180° F

IMPORTANT THE WATER SUPPLY LINES MUST BE THOROUGHLY FLUSHED BEFORE INSTALLATION TO PREVENT FOREIGN MATTER AND DEBRIS FROM CLOGGING AND/OR DAMAGING INTERNAL COMPONENTS AND THEREBY PREVENTING THE FAUCET FROM FUNCTIONING PROPERLY

IMPORTANT THE FAUCET HAS AN INTEGRAL SHANK FILTER ASSEMBLY INSTALLED IN THE BODY UNDER THE METERING CARTRIDGE TO PREVENT FOREIGN MATTER AND DEBRIS FROM DAMAGING THE FAUCET. THE INTEGRAL FILTER MAY BE REMOVED TO BE BACK-FLUSHED AND CLEANED IF INSUFFICIENT FLOW IS DETECTED. THE INTEGRAL SHANK FILTER ASSEMBLY MUST BE RE-INSTALLED AFTER SERVICING TO ENSURE PROPER FUNCTIONING OF THE METERING CARTRIDGE.

* INSTALLATION INSTRUCTIONS

NEW FAUCET INSTALLATION

1. THE WATER SUPPLY LINES MUST BE THOROUGHLY FLUSHED BEFORE FAUCET INSTALLATION.
2. REMOVE FAUCET ASSEMBLY FROM PACKAGING.
3. PLACE FAUCET ASSEMBLY ONTO SINK THROUGH PRE-DRILLED MOUNTING HOLES IN SINK.
4. INSTALL BRASS MOUNTING NUTS (#6A) ONTO SHANKS. DO NOT OVER TIGHTEN.
5. ATTACH LAVATORY SUPPLIES TO SHANKS OF FAUCET BODY (#5F) USING RISER NUTS (#6B).
6. INSTALL SPRAY OUTLET (#7) ON TO FAUCET BODY SPOUT OUTLET (#5F). A SUFFICIENT SEAL WILL BE OBTAINED THROUGH HAND TIGHTENING TO AVOID DAMAGING SPRAY OUTLET FINISH.
7. TURN ON SUPPLY AND CHECK CONNECTIONS FOR LEAKS.
8. THE METERING FAUCET IS FACTORY PRESET FOR A 10 TO 15 SECOND CYCLE AT 80 PSI. IF CYCLE TIME ADJUSTMENTS ARE NECESSARY, SEE "ADJUSTING THE FLOW" SECTION (PAGE2).

NOTE: A 1.0 GPM OR LOWER SPRAY OUTLET MUST BE INSTALLED TO PROVIDE BACK PRESSURE AND ENSURE PROPER FUNCTIONING OF METERING FAUCET).

IMPORTANT YOUR ZURN AQUASPEC FAUCET HAS A HIGHLY POLISHED NICKEL CHROME PLATED FINISH. CLEAN WITH SOAP AND WATER OR A MILD CLEANER WHICH IS SAFE FOR CHROME PLATING. DO NOT USE ACIDS OR TOILET BOWL CLEANER AS THEY WILL DAMAGE THE FINISH.

MAINTENANCE

1.0 ADJUSTING THE FLOW ON ZURN METERING FAUCET

- 1.1. METERING FAUCETS ARE FACTORY PRESET FOR A 10 TO 15 SECOND CYCLE AT 80 PSI.
- 1.2. ACTUATE FAUCET 3 TO 5 TIMES TO REMOVE ANY TRAPPED AIR IN THE SUPPLY LINE.
- 1.3. REMOVE HANDLE ASSEMBLY (#1) USING INTRUCTIONS 2.1 THROUGH 2.3.
- 1.4. ROTATE ADJUSTMENT NUT (#1D) CLOCKWISE TO LENGTHEN THE CYCLE TIME AND COUNTER CLOCKWISE TO SHORTEN THE CYCLE TIME. NOTE THAT A SHORTER HANDLE STROKE WILL RESULT IN A SHORTER METERING CYCLE TIME.
- 1.5. ALWAYS CHECK DURATION OF METERING CYCLE BY PRESSING DOWN ON HANDLE (#1C) WHILE INSTALLED ON STEM (#2F).
- 1.6. RE-INSTALL HANDLE ASSEMBLY (#1) USING INSTRUCTIONS 2.8 THROUGH 2.10.

2.0 METERING CARTRIDGE (G61754) REPLACEMENT

- 2.1. REMOVE HOLE PLUG (#1A).
- 2.2. LOOSEN AND REMOVE SCREW (#1B) USING 1/8" ALLEN WRENCH.
- 2.3. PULL UP ON HANDLE (#1C) TO REMOVE FROM STEM (#2F).
- 2.4. REMOVE THE HANDLE NUT ASSEMBLY (#2) BY TURNING COUNTER CLOCKWISE USING AN ADJUSTABLE WRENCH.
- 2.5. REMOVE THE METERING CARTRIDGE (#3) BY LIFTING OUT OF THE FAUCET BODY (#5). IT MAY BE NECESSARY TO OPEN THE SUPPLY STOP SLIGHTLY TO ALLOW WATER PRESSURE TO PUSH THE METERING CARTRIDGE UPWARD.
- 2.6. INSPECT THE METERING CARTRIDGE (#3) FOR WORN PARTS, DAMAGED PARTS AND ANY CONTAMINATION THAT MAY BE PREVENTING THE METERING CARTRIDGE FROM MOVING FREELY OR SEATING. OTHER THAN CLEANING ANY TRAPPED DEBRIS, THERE ARE NO SERVICEABLE PARTS IN THE METERING CARTRIDGE. CONTAMINATED OR DAMAGED METERING CARTRIDGE ASSEMBLIES SHOULD BE REPLACED.
- 2.7. REVERSE STEPS 2.1 THROUGH 2.5 FOR RE-ASSEMBLY. TIGHTEN HANDLE NUT ASSEMBLY (#2) WITH ADJUSTABLE WRENCH UNTIL NO WATER IS LEAKING FROM UNDER THE HANDLE NUT WHEN THE FAUCET IS RUNNING.
- 2.8. RE-INSTALL HANDLE (#1C) ONTO STEM (#2F).
- 2.9. TIGHTEN SCREW (#1B) USING 1/8" ALLEN WRENCH.
- 2.10. PRESS HOLE PLUG (#1A) INTO HANDLE (#1C).

3.0 REPLACING THE INTEGRAL SHANK FILTER

- 3.1. THE INTEGRAL SHANK FILTER (#4) IS LOCATED WITHIN THE BODY INLET (#5B). IT MAY BE NECESSARY TO REMOVE THE INTEGRAL SHANK FILTER PERIODICALLY TO BACK FLUSH BUILT UP CONTAMINATION.

NOTE: THE INTEGRAL SHANK FILTER MUST BE INSTALLED TO PREVENT FOREIGN MATTER AND DEBRIS FROM DAMAGING THE METERING CARTRIDGE.

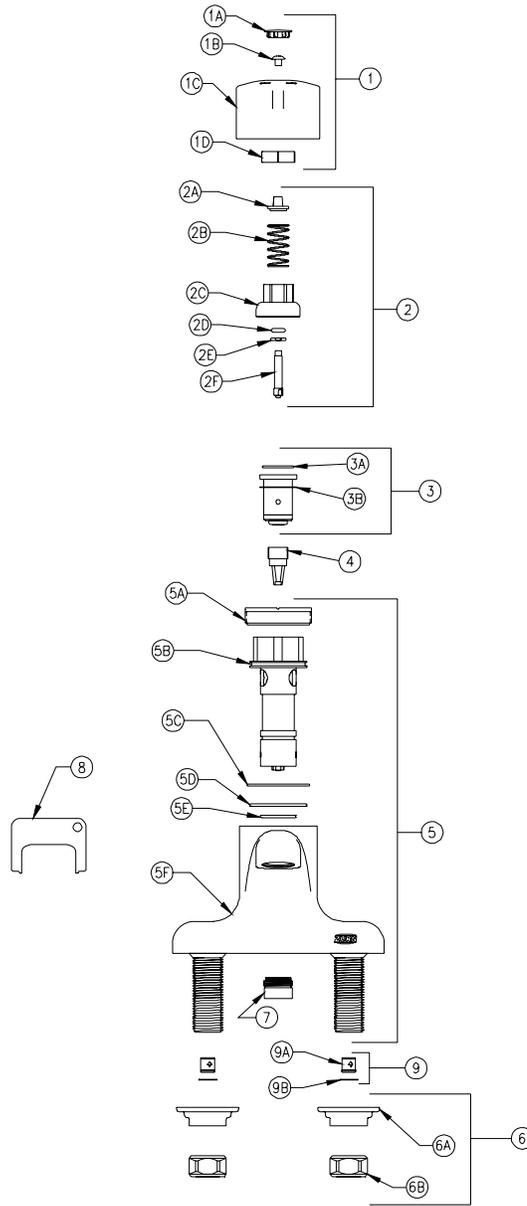
- 3.2. REMOVE HANDLE ASSEMBLY (#1), THE HANDLE NUT ASSEMBLY (#2) AND METERING CARTRIDGE (#3) PER INSTRUCTION #2 ABOVE.
- 3.3. REMOVE THE INTEGRAL SHANK FILTER (#4) USING A 1/4 INCH ALLEN WRENCH. THE FILTER BODY SHOULD REMAIN ATTACHED TO THE ALLEN WRENCH. THE FILTER BODY ASSEMBLY WILL ALSO FLOAT IN THE REMAINING WATER FOR EASY REMOVAL.
- 3.4. BACK FLUSH THE INTEGRAL SHANK FILTER (#4) TO REMOVE CONTAMINANTS.
- 3.5. INSTALL INTEGRAL SHANK FILTER (#4) USING A 1/4 INCH ALLEN WRENCH. START THREADS CAREFULLY TO AVOID CROSS THREADING.
- 3.6. INSTALL THE METERING CARTRIDGE (#3), HANDLE NUT ASSEMBLY (#2) AND THE HANDLE ASSEMBLY (#1) PER INSTRUCTION #2 ABOVE.

4.0 CHECK STOP REPLACEMENT

- 4.1. THE Z86000 METERING MIXING FAUCET HAS INTEGRAL CHECK STOPS (#9) TO PREVENT HOT/COLD CROSS CONTAMINATION WHERE THE HOT/COLD SUPPLY PRESSURES ARE NOT EQUAL.
- 4.2 THE INTEGRAL CHECK STOPS MAY BE REMOVED, INSPECTED AND REPLACED AS REQUIRED USING AN INTERNAL RETAINING RING INSTALLATION TOOL.

REPAIR PARTS

G67779	HANDLE NUT ASSEMBLY
G61754	METERING CARTRIDGE
G67787	SHANK FILTER ASSEMBLY
G67802	CHECK VALVE KIT – 2 CHECK VALVES AND RETAINING RINGS
G67803	HANDLE ASSEMBLY KIT - SCREW, PLUG AND ADJUSTMENT NUT
G67804	BODY ASSEMBLY KIT - RET RING, GASKET, QUAD-RINGS, WRENCH



Z86000 PICTURED

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
1	G67780	Metering Handle Assembly	1	3B	81241001	Washer	1
1A	92281001	Hole Plug	1	4	G67787	Integral Shank Filter	1
1B	92278001	10-32 Screw	1	5	G67784	Body Aqua-Mixing Sub Assembly	1
1C	92275001	Handle	1	5A	92326001	Retaining Ring	1
1D	92327001	Adjusting Nut	1	5B	92325001	Inlet	1
2	G67779	Handle Nut Assembly	1	5C	92470001	Gasket	1
2A	92235001	Stem End	1	5D	92328002	Quad Ring	1
2B	92286001	Spring	1	5E	92328001	Quad Ring	1
2C	92277001	Handle Nut	1	5F	92227001	Body	1
2D	62499107	O-Ring	1	6	G60502	Mounting Hardware	1
2E	60458001	Retainer	1	6A	59530002	Mounting Nut	2
2F	92274001	Stem	1	6B	59532001	1/2" NPSM Riser Nut	2
3	G61754	Cartridge Sleeve	1	7	G63561	13/16"-27 Male Spray Outlet - 0.25 GPC	1
3A	81121001	O-Ring	1	8	92421001	Wrench	1
				9	G67802	Check Valve Repair Kit	1
				9A	59192001	Check Valve	2
				9B	63230001	Retaining Ring	2

AQUASPEC FAUCETS

Z86000 TROUBLE SHOOTING GUIDE

<u>PROBLEM</u>	<u>CAUSE</u>	<u>SOLUTION</u>
No water dispensing from faucet.	Supply stops not open.	Open supply stops.
	Aerator contaminated.	Remove aerator to clean and/or replace.
	Filter assembly contaminated.	Shut off water supply. Remove filter assembly to clean and/or replace per Installation Instructions. Step #3
Faucet is shutting off to quickly	Timing nut requires adjustment.	Adjusting timing per Installation Instructions. Step #1
	Damaged Schrader valve stem in center of metering cartridge.	Replace metering cartridge G61754 per Installation Instructions. Step #2
	Metering cartridge is overly contaminated or damaged.	Replace metering cartridge G61754 per Installation Instructions. Step #2
Faucet is running too long.	Timing nut requires adjustment.	Adjusting timing per Installation Instructions. Step #1
	Aerator is not installed or incorrect aerator installed.	Install 1.0 GPM or 0.5 GPM aerator. Cycle time may be too long with aerator's > 1.0 GPM.
	Metering cartridge is overly contaminated or damaged.	Replace metering cartridge G61754 per Installation Instructions.
Faucet will not shut off.	Aerator is not installed or incorrect aerator installed.	Install 1.0 GPM or 0.5 GPM aerator. Facuet may not shut off with aerator's > 1.0 GPM.
	Handle nut is not adequately tightened	Tighten handle nut using 3/4" hex 6 point socket to create seal and seat metering cartridge. Do not over tighten.
	Timing nut requires adjustment.	Adjust timing per Installation Instructions. Step #1
	Metering cartridge is overly contaminated or damaged	Replace metering cartridge G61754 per Installation Instructions. Step #2
Faucet is making noise at shutoff.	Water hammer due to pressure and piping configuration	Purge trapped air from faucet by cycling 3 to 5 times.
	Excessively high water pressure (> 80 psi)	Gradually back off flow rate on supply to reduce pressure at metering cartridge until noise has been eliminated.

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* Installation Instructions are revised frequently.
 Please access website for the latest revision.