

# AQUASPEC<sup>®</sup> FAUCETS

MODEL - Z86700 SERIES  
WIDESPREAD METERING



## TECHNICAL INFORMATION

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**FLOW:** 0.25 GPC MAXIMUM; PRESET AT FACTORY TO 10 SECOND @ 80 PSI ADJUSTABLE

**MAXIMUM PRESSURE:** 125 PSI

**MAXIMUM TEMPERATURE:** 180° F

- CAN USE QUARTER TURN CERAMIC DISK CARTRIDGE

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**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

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**IMPORTANT** THE IN-LINE FILTER ASSEMBLY INCLUDED WITH THIS FAUCET MUST BE INSTALLED AS INSTRUCTED TO FURTHER PREVENT FOREIGN MATTER AND DEBRIS FROM DAMAGING THE FAUCET AND TO ENSURE PROPER FUNCTIONING.

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## \* INSTALLATION INSTRUCTIONS

1. THE WATER SUPPLY LINE MUST BE THOROUGHLY FLUSHED BEFORE FAUCET INSTALLATION.
2. PLACE RUBBER GASKET (ITEM #6D) ONTO SHANK OF BASE (ITEM #4). PLACE SHANK THROUGH CENTER HOLE OF SINK AND SECURE TO SINK USING WASHER (ITEM #6E), LOCKWASHER (ITEM #6F) AND MOUNTING NUT (ITEM #6G).
3. REMOVE BODY (ITEMS #7, #8, #8A & #9) FROM PACKAGING AND PLACE BRASS WASHER (ITEM #6C) ONTO END FITTINGS. SCREW NUTS ALL THE WAY DOWN ON THREADS.
4. TIGHTEN NUTS (ITEM #8A) TO SECURE ASSEMBLY TO SINK. **DO NOT OVERTIGHTEN.**
5. PLACE GASKET (ITEM #7A) BETWEEN TEE (ITEM #7D) & SHANK. SECURE TEE TO SHANK WITH NUT (ITEM #7C).
6. THIS STEP ONLY NECESSARY FOR FAUCETS WITH SEPARATE SPOUT/BASE ASSEMBLIES. INSTALL SPOUT INTO BASE AND TIGHTEN NUT (SEE VIEWS FOR SWING/RIGID CONNECTION).
7. INSTALL CAP (ITEM #2G) ONTO BODY (ITEM #8) (**DO NOT OVERTIGHTEN**). UNSCREW ADJUSTMENT NUT (ITEM #2F) FROM CAP (ITEM #2G). INSTALL ESCUTCHEON (ITEM #5) ONTO CAP (ITEM #2G). INSTALL ADJUSTMENT NUT (ITEM #2F) INTO CAP (ITEM #2G). REPEAT FOR OTHER SIDE.
8. ATTACH LAVATORY SUPPLY TO THE OUTLET OF THE FILTER ASS'Y. (#11) AND CONNECT TO FAUCET WITH RISER NUT (#10).
9. OPTIONAL - POP-UP (-P)/ GRID STRAINER (-G)/HANDICAP OFFSET GRID DRAIN (-GH):  
INSTALL POP-UP OR GRID STRAINER IN SINK OUTLET AND PLUMB WASTE CONNECTION.
10. IT IS RECOMMENDED THAT THE METERING CARTRIDGE (#3) IS REMOVED AND THE SUPPLY LINE AND FAUCET FLUSHED PRIOR TO OPERATING FAUCET. REMOVE METERING CARTRIDGE (#3) PER INSTRUCTIONS IN MAINTENANCE SECTION 2. REPLACE HANDLE NUT ASSEMBLY (#2) WITHOUT THE METERING CARTRIDGE INSTALLED. TURN ON SUPPLY TO FLUSH LINES.
11. TURN SUPPLY WATER ON AND OPERATE THE FAUCET WHILE CHECKING FOR LEAKS
12. REPLACE METERING CARTRIDGE (#3) PER INSTRUCTIONS IN MAINTENANCE SECTION 2.
13. INSTALL AERATOR (#5) INTO FAUCET AND HAND TIGHTEN.
14. METERING CARTRIDGE IS FACTORY PRESET FOR A 10 SECOND CYCLE AT 80 PSI, IF ADJUSTMENT IS NECESSARY, SEE "ADJUSTING THE FLOW" SECTION (PAGE 2).

# MAINTENANCE

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1. 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.
2. METERING CARTRIDGE (#3) REMOVAL AND REPLACEMENT
  - 2.1. REMOVE COLORED INDEX BUTTON (#1C) FROM HANDLE (#1A)
  - 2.2. LOOSEN SET SCREW (#1B) IN HANDLE WITH 3/32" ALLEN WRENCH
  - 2.3. PULL UP ON HANDLE TO REMOVE FROM STEM (#2C) OF HANDLE NUT ASSEMBLY (#2)
  - 2.4. REMOVE HANDLE NUT ASSEMBLY (#2) USING 1-1/8" HEX 6-POINT SOCKET
  - 2.5. REMOVE METERING CARTRIDGE (#3) BY LIFTING OUT OF FAUCET BODY (#4). IT MAY BE NECESSARY TO OPEN THE SUPPLY STOP SLIGHTLY TO ALLOW WATER PRESSURE TO PUSH THE METERING CARTRIDGE UPWARD.
  - 2.6. INSPECT 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 1.1 THROUGH 1.5 FOR RE-ASSEMBLY. METERING CARTRIDGE (#3) WILL SIT SLIGHTLY ABOVE BODY (#4) PRIOR TO MOUNTING OF HANDLE NUT ASSEMBLY. TIGHTEN CAP (#2G) WITH 1-1/8" HEX 6-POINT SOCKET UNTIL NO WATER IS LEAKING FROM UNDER THE HANDLE NUT ASSEMBLY WHEN THE FAUCET IS RUNNING. HOLD DOWN HANDLE (#1) WHILE TIGHTENING SET SCREW (#1B) TO ENSURE PROPER SEATING
3. IT MAY BE NECESSARY TO REPLACE OR BACK FLUSH THE IN-LINE FILTER CARTRIDGE AND AERATOR PERIODICALLY TO REMOVE COLLECTED SEDIMENT AND DEBRIS

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## ADJUSTING THE FLOW ON ZURN METERING FAUCET

1. METERING FAUCETS ARE FACTORY PRESET FOR A 10 SEC. CYCLE AT 80 PSI.
2. ACTUATE FAUCET 3 TO 5 TIMES TO REMOVE ANY TRAPPED AIR IN THE SUPPLY LINE OR FAUCET
3. REMOVE HANDLE (#1) PER INSTRUCTIONS IN MAINTENANCE SECTION 2.1 THROUGH 2.3 TO EXPOSE ADJUSTMENT NUT (#2F)
4. INCREASE CYCLE TIME BY TIGHTENING ADJUSTMENT NUT (#2F) 1/2 TURN CLOCKWISE. DECREASE CYCLE TIME BY LOOSENING ADJUSTMENT NUT 1/2 TURN COUNTERCLOCKWISE. CHECK FOR DESIRED CYCLE TIME BY ACTUATING FAUCET WITH HANDLE (#1) IN PLACE ON STEM (#2C)

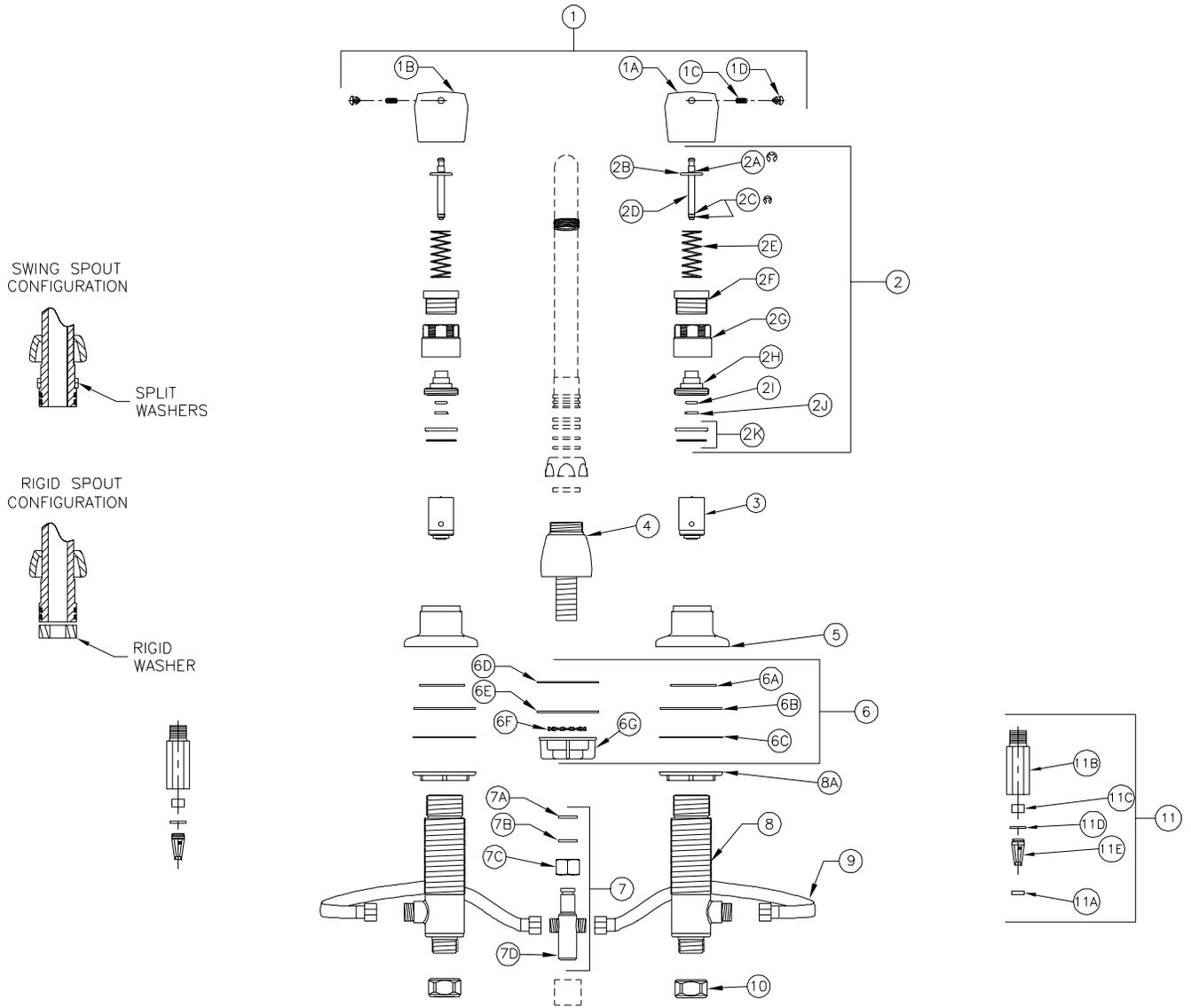
## REPLACEMENT PARTS

HANDLE NUT ASSEMBLY	G60561
METERING CARTRIDGE ASSEMBLY	G61754
HANDLE ASSEMBLY	G61830
FILTER ASSEMBLY	G66616

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



Z867B0 PICTURED

ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QTY
1	G61830	METERING HANDLE ASSEMBLY	1	5	60816001	ESCUTCHEON	2
1A	60601002	COLD METERING HANDLE	1	6	G61859	MOUNTING HARDWARE BAG	1
1B	60601001	HOT METERING HANDLE	1	6A	60383002	"E" RETAINING RING	2
1C	62705001	SET SCREW	2	6B	60382001	STAINLESS STEEL WASHER	2
1D	G60562	METERING INDEX BUTTONS - H, C	1	6C	60444001	BRASS WASHER	2
	60460001	HOT INDEX	1	6D	60148001	RUBBER GASKET	1
	60460002	COLD INDEX	1	6E	65340001	WASHER	1
2	G60561	HANDLE NUT ASSEMBLY	1	6F	61613019	LOCKWASHER	1
2A	60465001	E-RING	1	6G	59530003	FLANGED MOUNTING NUT	1
2B	60450001	SPRING SEAT	1	7	G65335	TEE ASS'Y.	1
2C	60464001	E-RING	2	7A	60455001	GASKET	1
2D	60451003	STEM	1	7B	63982001	RETAINING RING	1
2E	60447001	SPRING	1	7C	60145002	SHANK NUT	1
2F	60446001	ADJUSTMENT NUT	1	7D	61283001	TEE	1
2G	60452001	CAP	1	8	61273001	SINGLE BODY ASS'Y.	2
2H	60456001	STEM HOUSING	1	8A	60445001	NUT	1
2I	62499107	O-RING	1	9	60249332	FLEX HOSE	2
2J	60458001	O-RING RETAINER	1	10	59532001	1/2" NPSM Riser Nut	2
2K	G65503	CAP SEALING WASHER ASS'Y	1	11	G66616	FILTER ASS'Y.	1
	65431002	PLASTIC RING	1	11A	63982004	WASHER	1
	65432001	O-RING	1	11B	66241001	HOUSING	1
3	G61754	METERING CARTRIDGE ASS'Y	2	11C	92147001	FLOW CONTROL	1
4	61276003	BASE ASS'Y	1	11D	92149001	GASKET	1
				11E	60475001	FILTER	1

## Metering Faucet Trouble Shooting Guide

Problem	Cause	Solution
No water is coming out faucet & all supply stops are on.	Clogged aerator.	Clean aerator screen
	Clogged filter assembly.	Shut off water. Remove filter assembly (#11) from lavatory supply stop and rinse debris from filter. Replace filter assembly and turn on water to faucet.
Faucet is shutting off too quickly.	Timing nut needs to be adjusted.	See "ADJUSTING THE FLOW ON ZURN METERING FAUCET" (page 2)
	Sealing washer assy (#2K) could be damaged.	Shut off water, remove handle per maintenance instruction 2. Clean any debris around sealing washer assy (#2K). Replace and test faucet.
	Pin / Orifice area of cartridge has been damaged.	Shut off water, remove metering cartridge per maintenance instruction 2. Clean any debris around pin & orifice assembly by pressing down multiple times on the pin with the small spring on top of metering cartridge. Replace and test faucet.
	Schraeder valve is damaged (valve in center of cartridge).	Replace metering cartridge G61754.
Faucet is running too long.	Timing nut needs to be adjusted.	See "ADJUSTING THE FLOW ON ZURN METERING FAUCET" (page 2).
	Pin / Orifice area of cartridge is partially clogged.	Shut off water, remove metering cartridge per maintenance instruction 2. Clean any debris around pin & orifice assembly by pressing down multiple times on the pin with the small spring on top of metering cartridge. Replace and test faucet.
Faucet will not shut off.	Handle nut has been over torqued.	Shut off water, remove handle, and loosen handle nut. Tighten hand tight, plus 1/2 - 1 turns with wrench. Replace and test faucet
	Timing nut needs to be adjusted.	See "ADJUSTING THE FLOW ON ZURN METERING FAUCET" (page 2).
	Pin / Orifice area of cartridge is clogged.	Shut off water, remove metering cartridge per maintenance instruction 2. Clean any debris around pin & orifice assembly by pressing down multiple times on the pin with the small spring on top of metering cartridge. Replace and test faucet.
	Cartridge is damaged.	Replace metering cartridge G61754
Faucet is making noise at shutoff.	Air in lines during new construction.	Air in the lines should naturally work its way out over time. Cycle the valve repeatedly to expedite process.
	Continuous air in plumbing lines.	Reduce closing noise by slightly turning down (closing) the lavatory supply stops.