

AQUASPEC[®] FAUCETS

MODEL - Z86500 SERIES
CENTERSET METERING



TECHNICAL INFORMATION

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

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

1. THE WATER SUPPLY LINE MUST BE THOROUGHLY FLUSHED BEFORE FAUCET INSTALLATION.
2. REMOVE FAUCET BODY FROM CARTON AND PLACE FAUCET ON SINK.
3. ATTACH MOUNTING NUTS (#7A) ONTO SHANKS FROM UNDER SINK.
4. HAND TIGHTEN MOUNTING NUTS (#7A). DO NOT OVER TIGHTEN, YOU COULD DAMAGE THE FIXTURE.
5. ATTACH LAVATORY SUPPLY TO THE OUTLET OF THE SUPPLY STOP AND CONNECT TO FAUCET WITH RISER NUT (#7B).
6. 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.
7. TURN SUPPLY WATER ON AND OPERATE THE FAUCET WHILE CHECKING FOR LEAKS
8. INSTALL SPRAY OUTLET (#6) INTO FAUCET AND HAND TIGHTEN.
9. 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

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 (#1D) FROM HANDLES (#1A + #1B)
 - 2.2. LOOSEN SET SCREWS (#1C) 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 2.1 THROUGH 2.5 FOR RE-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 HANDLES (#1A + #1B) WHILE TIGHTENING SET SCREW (#1C) TO ENSURE PROPER SEATING
3. IT MAY BE NECESSARY TO REPLACE OR BACK FLUSH THE INTEGRAL SHANK FILTER AND AERATOR PERIODICALLY TO REMOVE COLLECTED SEDIMENT AND DEBRIS
 - 3.1. INTEGRAL SHANK FILTER (#4) IS REMOVED USING A 1/4" ALLEN WRENCH.

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)

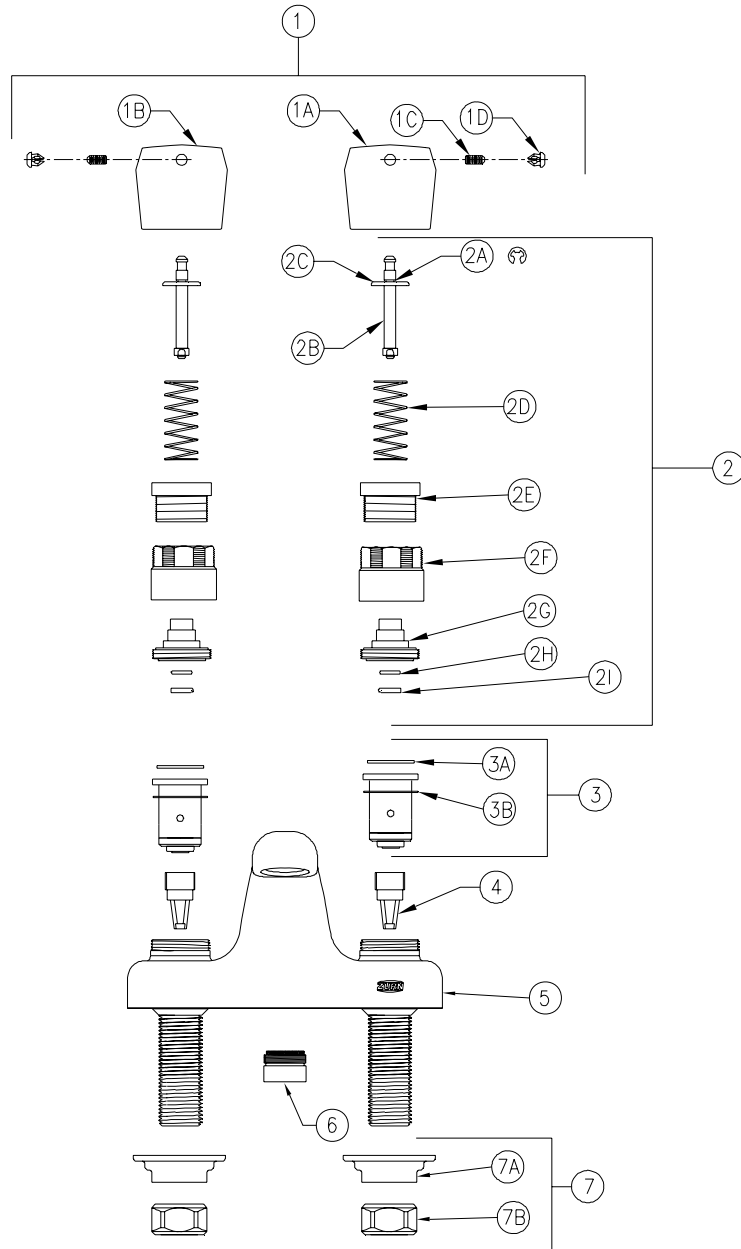
REPLACEMENT PARTS

HANDLE NUT ASSEMBLY	G60561
METERING CARTRIDGE ASSEMBLY	G61754
HANDLE ASSEMBLY	G61830
INTEGRAL SHANK FILTER	G67787

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



Z86500 PICTURED

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
1	G61830	Dual Metering Handle Assembly	1	2F	60452001	Cap	1
1A	60601002	Cold Metering Handle	1	2G	60456001	Stem Housing	1
1B	60601001	Hot Metering Handle	1	2H	62499107	O-Ring	1
1C	62705001	Setscrew	2	2I	60458001	O-Ring Retainer	1
1D	G60562	Metering Index Buttons - H, C	1	3	G61754	Metering Cartridge Ass'y	2
	60460001	Hot Index	1	3A	81121001	O-Ring	1
	60460002	Cold Index	1	3B	81241001	Washer	1
2	G60561	Handle Nut Assembly	2	4	G67787	Integral Shank Filter	2
2A	60465001	E-Ring	1	5	92109001	4" [102mm] Centerset Body	1
2B	60451003	Stem	1	6	G63561	13/16"-27 Male Spray Outlet - 0.25 GPC	1
2C	60450001	Spring Seat	1	7	G60502	Mounting Hardware	1
2D	60447001	Spring	1	7A	59530002	Mounting Nut	2
2E	60446001	Adjustment Nut	1	7B	59532001	1/2" NPSM Riser Nut	2

Metering Faucet Trouble Shooting Guide

Problem	Cause	Solution
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. Filter may be located externally on supply stops, or internally within faucet body under metering cartridge. Reference parts list included with faucet for filter style.
Faucet is shutting off too quickly	Timing nut requires adjustment.	Remove handle using 3/32" Allen wrench. Rotate timing nut down (CW) to lengthen handle stroke and increase cycle time.
	Damaged Schrader valve stem in center of metering cartridge.	Replace metering cartridge G61754 per Installation and Maintenance guide.
	Metering cartridge is overly contaminated or damaged.	Replace metering cartridge G61754 per Installation and Maintenance guide.
Faucet is running too long.	Timing nut requires adjustment.	Remove handle using 3/32" Allen wrench. Rotate timing nut up (CCW) to shorten handle stroke and decrease cycle time.
	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 and Maintenance guide.
Faucet will not shut off.	Aerator is not installed <u>or</u> incorrect aerator installed.	Install 1.0 GPM or 0.5 GPM aerator. Faucet may not shut off with aerator's > 1.0 GPM.
	Handle nut is not adequately tightened	Tighten handle nut using 1-1/8" hex 6 point socket to create seal and seat metering cartridge. Do not over tighten.
	Timing nut requires adjustment.	Remove handle using 3/32" Allen wrench. Rotate timing nut up (CCW) to shorten handle stroke and decrease cycle time.
	Metering cartridge is overly contaminated or damaged.	Replace metering cartridge G61754 per Installation and Maintenance guide.
Faucet is making noise at shutoff.	Water hammer due to pressure and piping configuration.	Ensure filter assembly with flow control orifice is installed. Shut off water supply. Remove filter assembly to clean and/or replace. Filter may be located externally on supply stops, or internally within faucet body under metering cartridge. Reference parts list included with faucet for filter style.
	Excessively high water pressure (> 80 psi).	Gradually back off flow rate on supply stops to reduce pressure at metering cartridge until noise has been eliminated.
Handles becoming loose with normal usage.	Handle not seated properly when installed.	Loosen set screw in handle with 1/8" Allen wrench. While pressing down on handle to seat on handle nut stem, retighten set screw in handle.