

AQUASPEC® FAUCETS

MODEL - G66678, G66679, G66680
"IN" INSTITUTIONAL METERING HANDLE



TECHNICAL INFORMATION

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 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.

* INSTALLATION INSTRUCTIONS

1. REMOVE COLORED INDEX BUTTON (#1C) FROM HANDLE (#1A)
2. LOOSEN SET SCREW (#1B) IN HANDLE WITH 3/32" ALLEN WRENCH
3. PULL UP ON HANDLE TO REMOVE FROM STEM (#2C) OF HANDLE NUT ASSEMBLY (#2)
4. REMOVE HANDLE NUT ASSEMBLY (#2) USING 1-1/8" HEX 6-POINT SOCKET
5. ASSEMBLING HANDLE WITH OLD STYLE METERING CARTRIDGE(#6) WITH STAINLESS STEEL SLEEVE.
 - 5.1 PLACE CAP SEALING WASHER ASSEMBLY(#5) ONTO FAUCET BODY WITH O-RING FACING DOWN.
 - 5.2 FOR Z86700-IN INSTALLATION REFERENCE PAGE 3 OF 4, REMOVE ESCUTCHEON (#7) AND RETAINING RING (#8A). INSTALL ESCUTCHEON (#11) AND SLEEVE (#10).
 - 5.3 INSTALL "IN" HANDLE(#4) ONTO FAUCET BODY. TIGHTEN WITH ADJUSTABLE WRENCH TO CREATE SEAL WITH FAUCET BODY. DO NOT OVERTIGHTEN.
6. ASSEMBLING HANDLE WITH NEW STYLE METERING CARTRIDGE(#3) WITH BLUE POLYMER SLEEVE.
 - 6.1 DISCARD CAP SEALING WASHER ASSEMBLY(#5)
 - 6.2 FOR Z86700-IN INSTALLATION REFERENCE PAGE 3 OF 4, REMOVE ESCUTCHEON (#7) AND RETAINING RING (#8A). INSTALL ESCUTCHEON (#11) AND SLEEVE (#10).
 - 6.3 ENSURE O-RING(#3A) AND WASHER(#3B) ARE POSITIONED ON BLUE POLYMER SLEEVE AS SHOWN.
 - 6.4 INSTALL "IN" HANDLE(#4) ONTO FAUCET BODY. TIGHTEN WITH ADJUSTABLE WRENCH TO CREATE SEAL WITH FAUCET BODY. DO NOT OVERTIGHTEN.
7. CYCLE TIME ADJUSTMENT
TURN ADJ. RING(#4D) UP (CCW) FOR SHORTER CYCLE
TURN ADJ. RING(#4D) DOWN (CW) FOR LONGER CYCLE

ADJUSTING THE CYCLE TIME ON ZURN METERING FAUCET

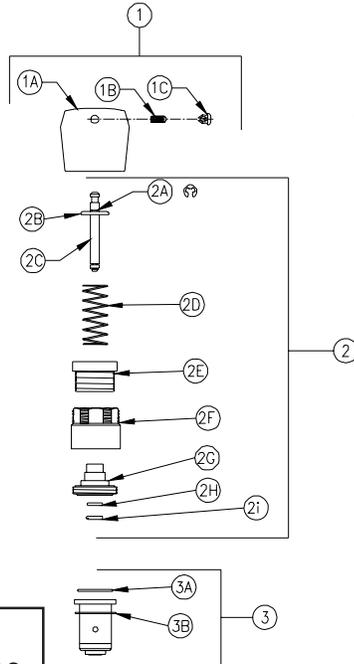
1. METERING FAUCETS ARE FACTORY PRESET FOR A 10 SEC. CYCLE AT 80 PSI.
2. ACTUATE FAUCET 3 TO 5 TIMES TO REMOVE ANY TRAPPED AIR IN THE SUPPLY LINE OR FAUCET
3. INCREASE CYCLE TIME BY ROTATING COLORED (RED, BLUE, BLACK) TIMING RING(#4D) CLOCKWISE. DECREASE CYCLE TIME BY ROTATING COLORED (RED, BLUE, BLACK) TIMING RING(#4D) COUNTERCLOCKWISE.

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

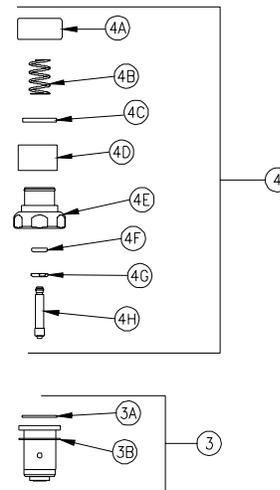
REPLACEMENT PARTS

| | |
|--------------------------------------|----------|
| HOT(RED) INSTITUTIONAL HANDLE | G66678 |
| METERING CARTRIDGE ASSEMBLY | G61754 |
| COLD(BLUE) INSTITUTIONAL HANDLE | G66679 |
| TEMPERED(BLACK) INSTITUTIONAL HANDLE | G66680 |
| CAP SEALING WASHER ASS'Y | G65503 |
| ESCUTCHEON (REQUIRED FOR Z86700) | 61406001 |
| SLEEVE (REQUIRED FOR Z86700) | 92503002 |

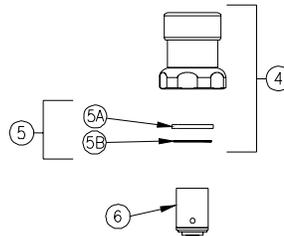
HANDLE ASS'Y-STANDARD



HANDLE ASS'Y-INSTITUTIONAL



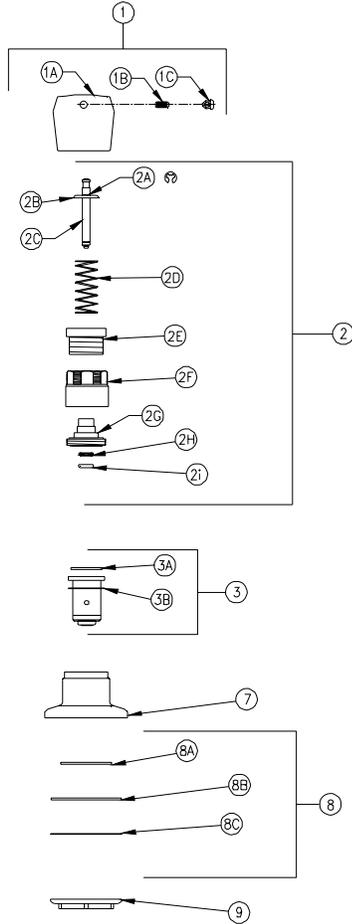
Replacement Instructions for:
Z86100, Z86300, Z86500, Z86600,
Z83600 AND Z80300



HANDLE ASS'Y-INSTITUTIONAL W/ OLD CARTRIDGE

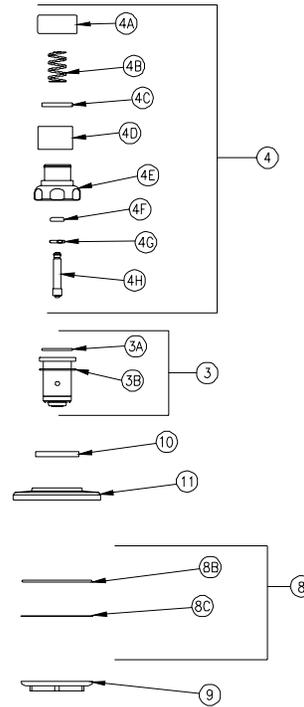
| Item | Part Number | Description | Qty. | Item | Part Number | Description | Qty. |
|------|-------------|------------------------------|------|------|-------------|--------------------------------------|------|
| 1 | G60522 | Metering Handle Assembly | 1 | 3 | G61754 | Metering Cartridge Ass'y | 1 |
| 1A | 60601003 | Cold Metering Handle | 1 | 3A | 58155020 | O-Ring | 1 |
| 1B | 62705001 | Set Screw | 1 | 3B | 81241001 | Washer | 1 |
| 1C | G60558 | Metering Index Buttons-H,C,T | 1 | 4 | G66678 | "IN" Handle Assembly (Hot) | 1 |
| | 60460001 | Hot Index | 1 | 4A | 92132001 | Push Button Handle | 1 |
| | 60460002 | Cold Index | 1 | 4B | 61059001 | Spring | 1 |
| | 60460003 | Tempered Index | 1 | 4C | 92146001 | Index Retaining Ring | 1 |
| 2 | G60561 | Handle Nut Assembly | 1 | 4D | 92134001 | Push Button Sleeve (Timing Ring) | 1 |
| 2A | 60465001 | "E" Ring | 1 | 4E | 92127001 | Push Button Body | 1 |
| 2B | 60450001 | Spring Seat | 1 | 4F | 62499107 | O-Ring | 1 |
| 2C | 60451001 | Stem | 1 | 4G | 60458001 | Retainer, O-Ring | 1 |
| 2D | 60447001 | Spring | 1 | 4H | 92131001 | Push Button Handle Stem | 1 |
| 2E | 60446001 | Adjustment Nut | 1 | 5 | G65503 | Cap Sealing Washer Assembly | 1 |
| 2F | 60452001 | Cap | 1 | 5A | 65431002 | Plastic Washer | 1 |
| 2G | 60456001 | Stem Housing | 1 | 5B | 65432001 | Plastic Washer | 1 |
| 2H | 62499107 | O-Ring | 1 | 6 | G61754 | Metering Cartridge Ass'y (Old Style) | 1 |
| 2i | 60458001 | O-Ring Retainer | 1 | | | | |

HANDLE ASS'Y-STANDARD

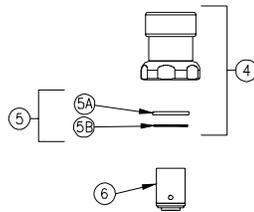


Replacement Instructions for: Z86700

HANDLE ASS'Y-INSTITUTIONAL



HANDLE ASS'Y-INSTITUTIONAL W/ OLD CARTRIDGE



| Item | Part Number | Description | Qty. | Item | Part Number | Description | Qty. |
|------|-------------|------------------------------|------|------|-------------|----------------------------------|------|
| 1 | G60522 | Metering Handle Assembly | 1 | 4 | G66678 | "IN" Handle Assembly (Hot) | 1 |
| 1A | 60601003 | Cold Metering Handle | 1 | 4A | 92132001 | Push Button Handle | 1 |
| 1B | 62705001 | Set Screw | 1 | 4B | 61059001 | Spring | 1 |
| 1C | G60558 | Metering Index Buttons-H,C,T | 1 | 4C | 92146001 | Index Retaining Ring | 1 |
| | 60460001 | Hot Index | 1 | 4D | 92134001 | Push Button Sleeve (Timing Ring) | 1 |
| | 60460002 | Cold Index | 1 | 4E | 92127001 | Push Button Body | 1 |
| | 60460003 | Tempered Index | 1 | 4F | 62499107 | O-Ring | 1 |
| 2 | G60561 | Handle Nut Assembly | 2 | 4G | 60458001 | Retainer, O-Ring | 1 |
| 2A | 60465001 | E-Ring | 1 | 4H | 92131001 | Push Button Handle Stem | 1 |
| 2B | 60450001 | Spring Seat | 1 | 5 | G65503 | Cap Sealing Washer Assembly | 1 |
| 2C | 60451003 | Stem | 1 | 5A | 65431002 | Plastic Washer | 1 |
| 2D | 60447001 | Spring | 1 | 5B | 65432001 | Plastic Washer | 1 |
| 2E | 60446001 | Adjustment Nut | 1 | 6 | G61754 | Metering Cartridge (Old Style) | 1 |
| 2F | 60452001 | Cap | 1 | 7 | 60816001 | Escutcheon | 2 |
| 2G | 60456001 | Stem Housing | 1 | 8 | G61859 | Mounting Hardware | 1 |
| 2H | 62499107 | O-Ring | 1 | 8A | 60383002 | Retaining Ring | 2 |
| 2i | 60458001 | O-Ring Retainer | 11 | 8B | 60382001 | Washer | 2 |
| 3 | G61754 | Metering Cartridge Ass'y | 2 | 8C | 60444001 | Washer | 2 |
| 3A | 58155020 | O-Ring | 1 | 9 | 60445001 | Nut | 2 |
| 3B | 81241001 | Washer | 1 | 10 | 92503002 | Sleeve | 2 |
| | | | | 11 | 61406001 | Escutcheon | 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 to quickly | Timing nut requires adjustment. | Rotate timing ring 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. | Rotate timing ring 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 adjustable wrench to create seal and seat metering cartridge. Do not over tighten. |
| | Timing nut requires adjustment. | Rotate timing ring 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. |

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