AQUASPEC® FAUCETS

TempReady® - Z83100-XL-TR Widespread Series
Patented and Patents Pending

Technical Information

Flow: 2.2 GPM [8.3 L] Pressure Compensating Aerator *
Outlet Temp Range 80°-120°F (27-49°C)
Hot Supply Temp 120-180°F (49-82°C)
Cold Supply Temp 40-75°F (4-24°C)
Set Temp Accuracy +/- 3°F (+/- 1.7°C)
Max Working Pressure 125 psi (860 kPa)
Max H/C Pressure Differential 20%
Handle Nut Torque: 15-20 FT - LBS.
Cartridge Style: Quarter Turn Ceramic Disk
Inlet check valves to protect against cross flow
**OTHER AERATORS AVAILABLE BY REQUEST*

Installation Instructions

Z83100-XL-TR (See figure 1)

1. Place gasket (Item #3D) onto shank of base (Item #4). Place base through center hole of sink and secure to sink using washer (Item #3E), lockwasher (Item #3F) and flanged mounting nut (Item #3G).
2. Remove valve bodies (Items #8 & #9) from shrink-wrap. Place washer (Item #3C) onto end fittings, adjust nuts (item 12) on threads to accommodate sink thickness.
3. Place bodies (Item #8 & #9) into sink from underside and place washer (Item #3B) and retaining ring (Item #3A) onto shanks above sink top.
4. Hand tighten nuts (Item #12) 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. Tighten escutcheons (Item #1) onto cartridge cap (Item #2) to secure body to sink.
7. Proceed to “Finishing Installation” All Models section.

Z83100-XL-ICT-TR (See figure 2)

1. Place gasket (Item #3D) onto shank of base (Item #4). Place base through center hole of sink and secure to sink using washer (Item #3E), lockwasher (Item #3F) and flanged mounting nut (Item #3G).
2. Remove body (Item #9) from shrink-wrap. Place washer (Item #3C) onto end fittings, adjust nuts (item 12) on threads to accommodate sink thickness.
3. Place shank nut (Item #3J) onto center post of body (Item #9). Place friction washer (Item #3I) into nut (Item #3J). Insert shank seal (Item #3H) around center post with large diameter first until seal bottoms out.
4. Place body (Item #9) into sink from underside and place washer (Item #3B) and retaining ring (Item #3A) onto shanks above sink top.
5. Hand tighten nuts (Item #9A) to secure assembly to sink. **DO NOT OVERTIGHTEN.**
6. Tighten escutcheons (Item #1) onto cartridge cap (Item #2) to secure body to sink. Also tighten shank nut (Item #3J) onto threads of base (Item #4)
7. Proceed to “Finishing Installation” All Models section.

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Z83103-XL-TR (See figure 3)

1. Place gasket (Item #3D) onto shank of base (Item #4). Place base through center hole of sink and secure to sink using washer (Item #3E), lockwasher (Item #3F) and flanged mounting nut (Item #3G).
2. Remove valve bodies (Items #8 & #9) from shrink-wrap. Place washer (Item #3C) onto end fittings, adjust on threads to accommodate sink thickness
3. Place bodies (Items #8 & #9) into sink from underside and place washers (Items #3B) and retaining ring (Item #3A) onto shanks above sink top.
4. Hand tighten nuts (Item #12) 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. Tighten escutcheons (Item #1) onto cartridge cap (Item #2) to secure body to sink.
7. Proceed to "Finishing Installation" All Models section.

"Finishing Installation" All Models

1. Attach lavatory supplies to faucet using inlet tee (Item #10). Attach hose (item #11) from side port on inlet tee to cold port of TR body. This port is marked with a "C".
2. Optional: Pop-up (-P)
   Grid Strainer (-G)
   ADA Offset grid drain (-GH)
   Install pop-up or grid strainer in sink outlet and plumb waste connection.
3. It may be necessary to unscrew and clean aerator at start-up.
4. Turn water supply on and operate faucet checking for leaks above and below the deck.
5. Temperature adjustment
   5.1. This TempReady® faucet has been preset with a tempered hot water supply of 100°F (38°C). Temperature may be adjusted within the range of 80°F - 120°F (27°C - 49°C).
   5.2. Remove the locking cap (item #8D).
   5.3. Turn on the hot side of the faucet. Allow water to run for a few minutes to reach a stable temperature.
   5.4. Using a flathead screwdriver, carefully turn the adjustment stem on the mixing cartridge (item #8B). Rotate CW (colder) or CCW (hotter) as needed. Take care not to rotate the stem beyond the hot/cold limits.
   5.5. Verify the outlet temperature using a thermometer.
   5.6. Replace the locking cap (item #8D).

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. CLEANING THE MIXING CARTRIDGE:

This task should only be completed if troubleshooting a problem above.

2.1. Turn off the water supply.
2.2. Open hot and cold handles to bleed off any water pressure.
2.3. Use an adjustable wrench to remove the cartridge cap (item #8C).
2.4. Grab the mixing cartridge (item #8B) and pull straight down. Use hands, not pliers or other tools. Take care not to turn the adjustment stem.
2.5. Rinse any debris off the filter screens and o-rings.
2.6. Inspect all three sealing o-rings for damage or debris.
2.7. Lubricate o-rings with NSF61 approved silicone grease.
2.8. Carefully replace the cartridge back into the body. It is not necessary to fully seat the cartridge, as the cartridge cap will press it into place.
2.9. Thread the cartridge cap back into the body by hand. Snug with a wrench to 10 ft-lbs (13.5 Nm).
2.10. Turn on the water supply.

Replacement Parts

COLD WATER CARTRIDGE	59517007
HOT WATER CARTRIDGE	59517008
INDEX BUTTONS	G60500

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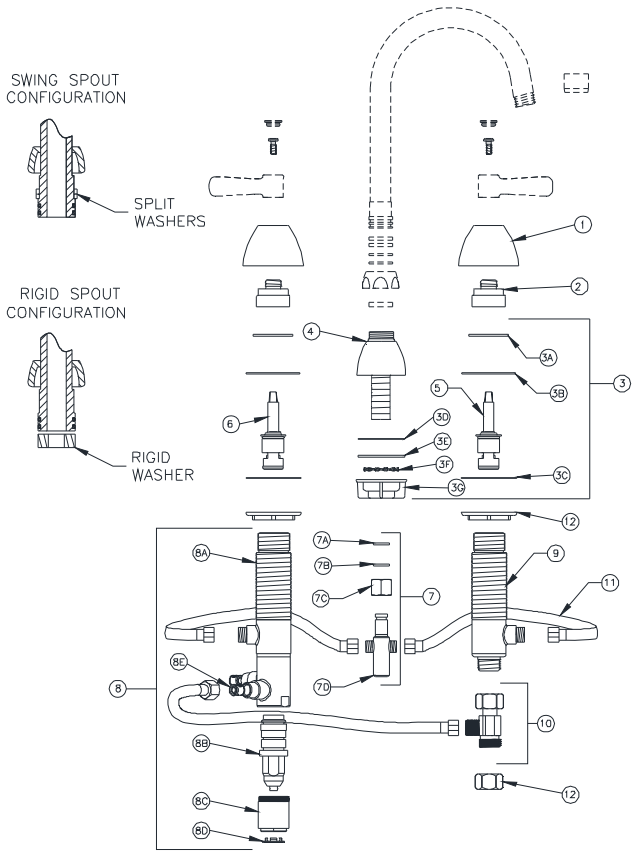
FIGURE 1

Z831B1-XL-TR PICTURED

Item	Part Number	Description	Qty.
1	60078-001	Escutcheon	2
2	60077-001	Cartridge Cap	2
3	G61859	Mounting Hardware	1
3A	60383-002	Retaining Ring	2
3B	60382-001	Washer	2
3C	60444-001	Washer	2
3D	60148-002	Gasket	2
3E	65340-001	Washer	1
3F	61613-019	Toothed Lockwasher	1
3G	59530-003	Flanged Mounting Nut	1
4	G67871	Base	1
5	59517-007	Long Cold Cartridge	1
6	59517-008	Long Hot Cartridge	1
7	G67898	Tee Assembly	1
7A	60455-001	Gasket	1
7B	63982-001	Retaining Ring	1
7C	60145-002	Shank Nut	1
7D	61283-005	Tee	1
8	315044-001	TMV Valve Body Assembly	1
8A	G68078	TMV Valve Body SubAss	1
8B	313841-001	TMV Cartridge	1
8C	313820-001	TMV Cartridge Cap	1
8D	314006-001	Locking Cover	1
8E	59192-001	Check Valve	2
9	93039-001	Valve Body Assembly	1
10	316260-001	Tee	1
11	93317-332	S. S. Flexible Hose	4
12	60445-001	Nut	2
13	59532-001	Riser Nut	1

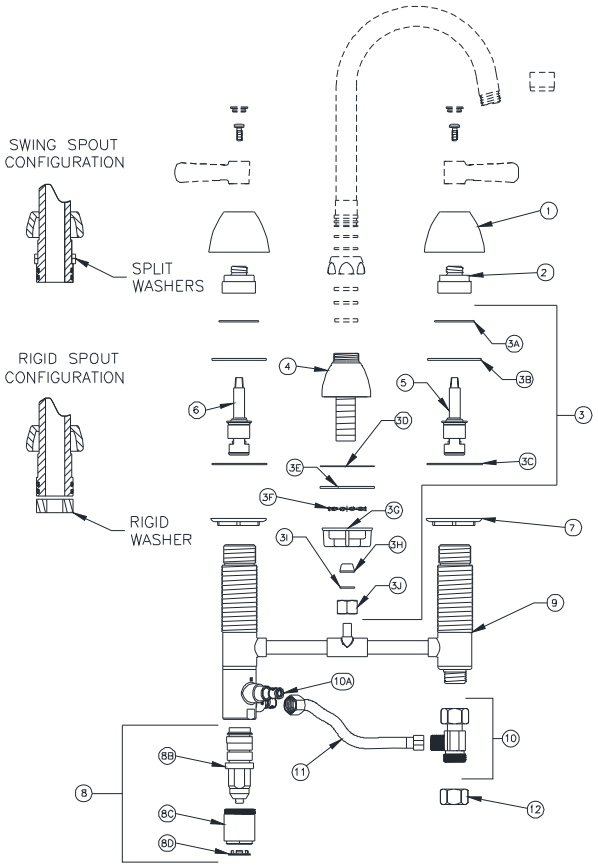


Note: Aerators and internal flow controls must be replaced with genuine Zurn parts, suitable for this faucet model. Please contact customer service for more information.

FIGURE 2

Z831B1-XL-ICT-TR PICTURED

Item	Part Number	Description	Qty
1	60078-001	Escutcheon	2
2	60077-001	Cartridge Cap	2
3	G61080	Mounting Hardware	1
3A	60383-002	Retaining Ring	2
3B	60382-001	Washer	2
3C	60444-001	Washer	2
3D	60148-002	Gasket	1
3E	65340-001	Washer	1
3F	61613-019	Lockwasher	1
3G	59530-003	Flanged Mounting Nut	1
3H	60144-001	Shank Seal	1
3I	60399-001	Friction Washer	1
3J	60145-001	Shank Nut	1
4	G67871	Base Ass'y.	1
5	59517-007	Long Cold Cartridge	1
6	59517-008	Long Hot Cartridge	1
7	60445-001	Nut	2
8	315044-001	TMV Valve Body Assembly	1
8B	313841-001	TMV Cartridge	1
8C	313820-001	TMV Cartridge Cap	1
8D	314006-001	Locking Cover	1
8E	59192-001	Check Valve	2
9	G68077	Valve Body Assembly	1
10	316260-001	Tee	1
11	93317-332	S. S. Flexible Hose	2
12	59532-001	Riser Nut	1



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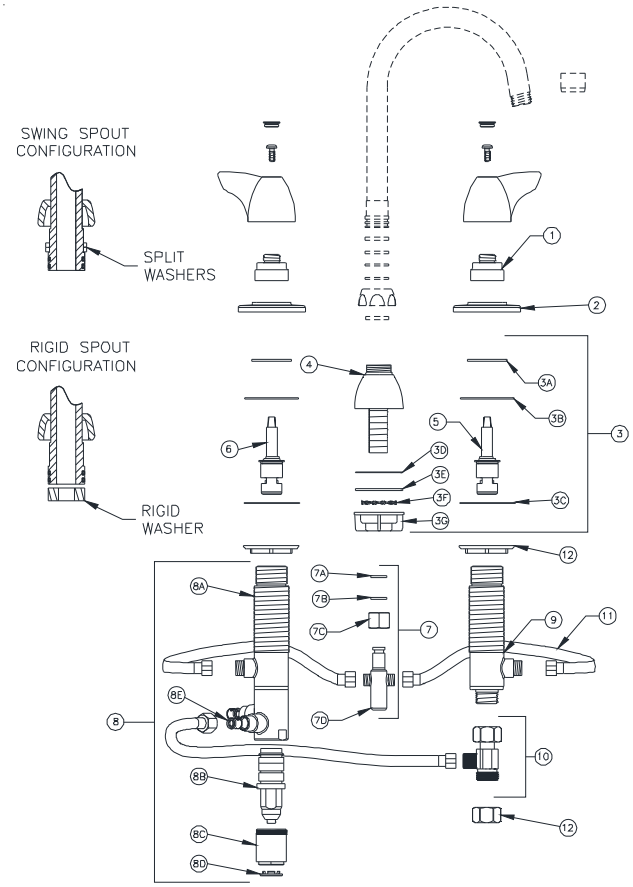
Z831B3-XL-TR PICTURED

FIGURE 3

Item	Part Number	Description	Qty.
1	60077001	Cartridge Cap	2
2	60078001	Escutcheon	2
3	G61859	Mounting Hardware	1
3A	60383002	Retaining Ring	2
3B	60382001	Washer	2
3C	60444001	Washer	2
3D	60148002	Gasket	2
3E	65340001	Washer	1
3F	61613019	Toothed Lockwasher	1
3G	59530003	Flanged Mounting Nut	1
4	G67871	Base	1
5	59517005	Long Cold Cartridge	1
6	59517006	Long Hot Cartridge	1
7	G67898	Tee Assembly	1
7A	60455001	Gasket	1
7B	63982001	Retaining Ring	1
7C	60145002	Shank Nut	1
7D	61283005	Tee	1
8	315044-001	TMV Valve Body Assembly	1
8A	G68078	TMV Valve Body SubAss	1
8B	313841-001	TMV Cartridge	1
8C	313820-001	TMV Cartridge Cap	1
8D	314006-001	Locking Cover	1
8E	59192-001	Check Valve	2
9	93039-001	Valve Body Assembly	1
10	316260-001	Tee	1
11	93317-332	S. S. Flexible Hose	4
12	60445-001	Nut	2
13	59532-001	Riser Nut	1

Note: Aerators and internal flow controls must be replaced with genuine Zurn parts, suitable for this faucet model. Please contact customer service for more information.



Troubleshooting

Problem	Cause	Solution
The desired mixed water temp cannot be obtained or the mixing cartridge is difficult to set.	Hot and cold supplies are reversed.	Reattach supplies so H & C are correct.
	The mixing cartridge is full of debris.	See Maintenance Guide for instructions on cleaning the mixing cartridge.
Mix temperature is unstable or changes over time.	Fluctuating supply pressure.	Install a pressure reducing valve.
Either full hot or cold water flowing	Mixing cartridge is set incorrectly.	Adjust mix.
No flow from the faucet.	Hot or cold water supply failure.	Restore inlet supply and check mix temperature.
Flow rate reduced or fluctuating.	The mixing cartridge is full of debris.	See Maintenance Guide for instructions on cleaning the mixing cartridge.
Mixed water temp too hot or too cold.	Mixing cartridge has been tampered with or is set incorrectly.	Readjust to required set temp.
	Inlet temperatures are not within specified limits.	Ensure inlet temperatures are within specified limits.
Hot water flows into the cold water system or vice versa.	A check valve is fouled.	Remove debris.
Valve is noisy	Water velocity is too high.	Reduce water velocity by turning down the supply stop and/or changing the flow control.

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