

Installation

Aerada™ 900 Series

With Accu-Zone® (AZ) Infrared Control

Table of Contents

Supplies Required	2
Dimensions and Configurations.	2
Installation	3
Multi-Faucet Wiring	4
Replacing the Sensor	5
Troubleshooting	5

- S53-341TL - 4" Centerset
- S53-341TMA - 4" Centerset w/ TMV
- S53-343TL - Centershank
- S53-343TMA - Centershank w/TMV
- S53-345TL - 4" Centershank w/8" Trim Plate
- S53-345TMA - 4" Centershank w/ 8" Trim Plate, TMV

WARNING

Make sure that all water supply lines have been flushed and then completely turned off before beginning installation. Debris in supply lines can cause valves to malfunction.

CAUTION

A DC plug-in adapter (supplied by Bradley) should be used in conjunction with the 900 Series Futura (AZ) Faucets. The DC plug-in adapter supplied by Bradley is 12V DC regulated. Direct connection to 120V/220V 50/60Hz could result in personal injury and will damage the sensor.

IMPORTANT

Read this entire installation manual to ensure proper installation. When finished with the installation, file this manual with the owner or maintenance department. Compliance and conformity to local codes and ordinances is the responsibility of the installer.

Separate parts from packaging and make sure all parts are accounted for before discarding packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

When the faucet is mounted on a fixture with a stainless steel bowl, it is recommended that the bowl have a satin finish rather than a mirrored or highly polished finish.

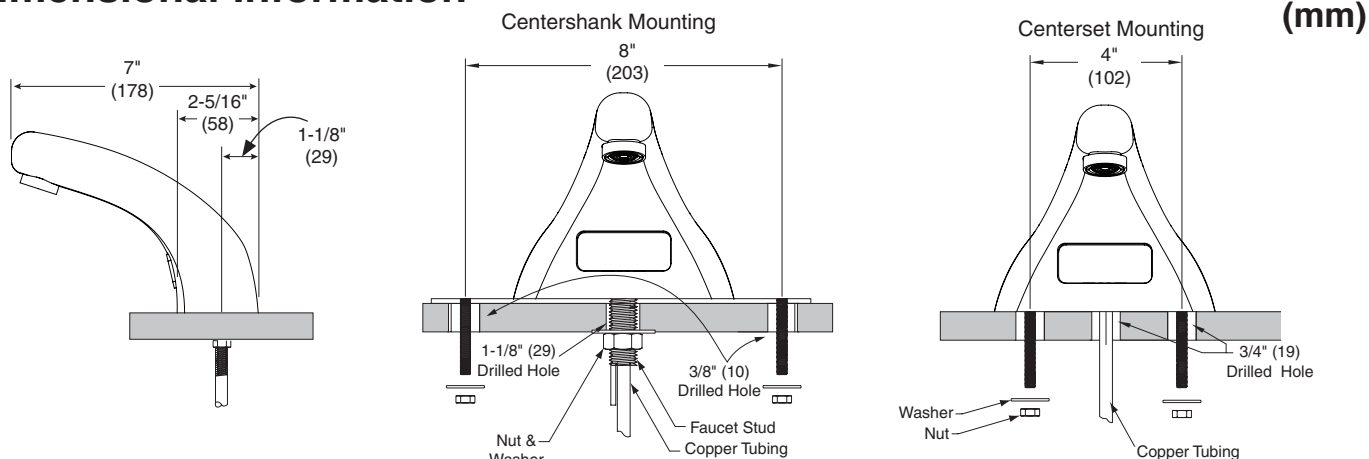
Product warranties may be found under “Products” on our web site at bradleycorp.com.



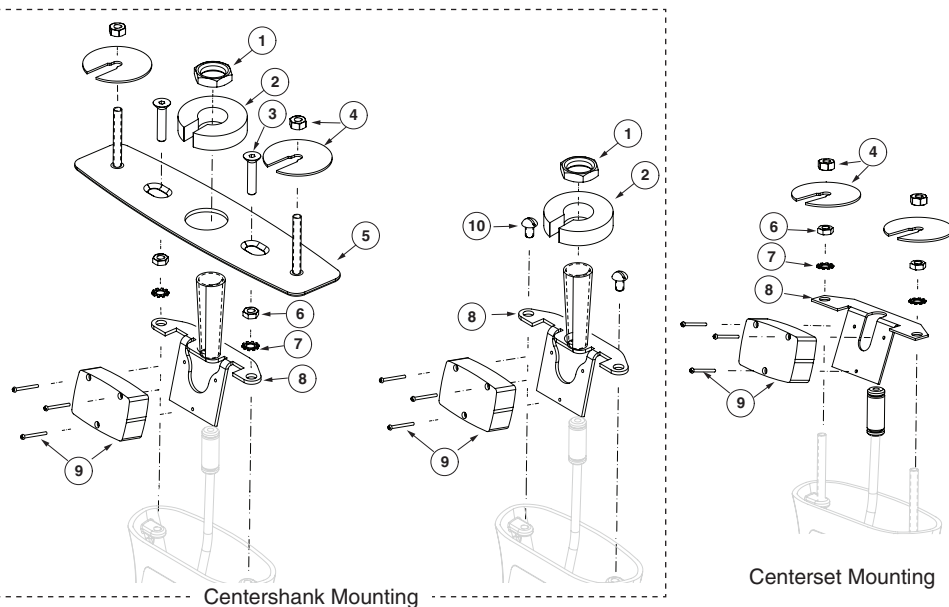
Supplies Required

- 120V/220V 50/60Hz power source using Bradley supplied 120VAC/12V DC plug-in adapter
- Tempered hot and cold supply piping and fittings to solenoid valve (1/2" NPT)
- 1/4" O.D. tubing
- Pipe fittings, pipe sealant as required

Dimensional Information



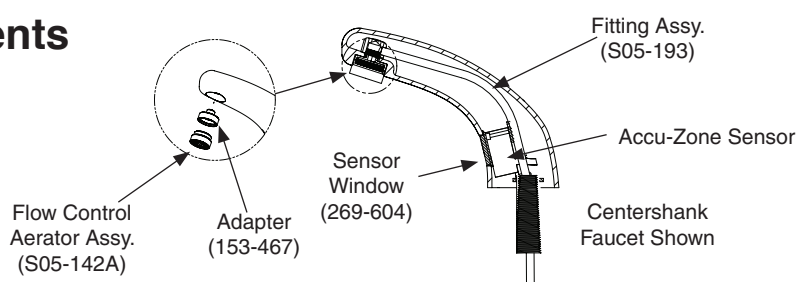
Mounting Configurations



Parts List

Ref.	Part No.	Description
1	110-115	Mounting Nut
2	124-110	Slotted Mounting Washer
3	161-151	8" Trimplate Mounting Screw
4	S27-224	Mounting Prepack
5	159-399	8" Trimplate
6	161-078	Sensor Bracket Nut
7	142-002BS	Sensor Bracket Washer
8	-	Sensor Bracket
9	269-1184-DCE	Accu-Zone Sensor
10	160-169	Sensor Mounting Screw

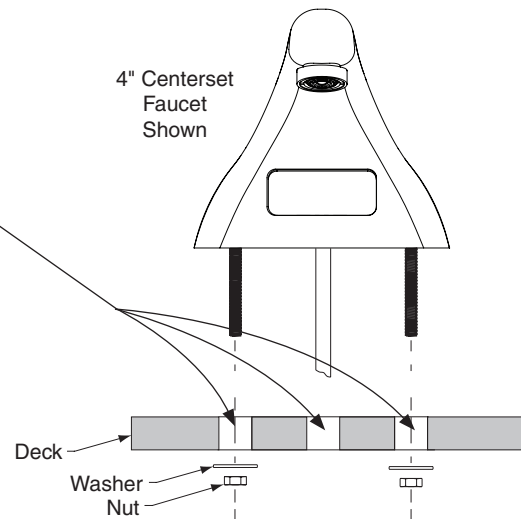
Faucet Components



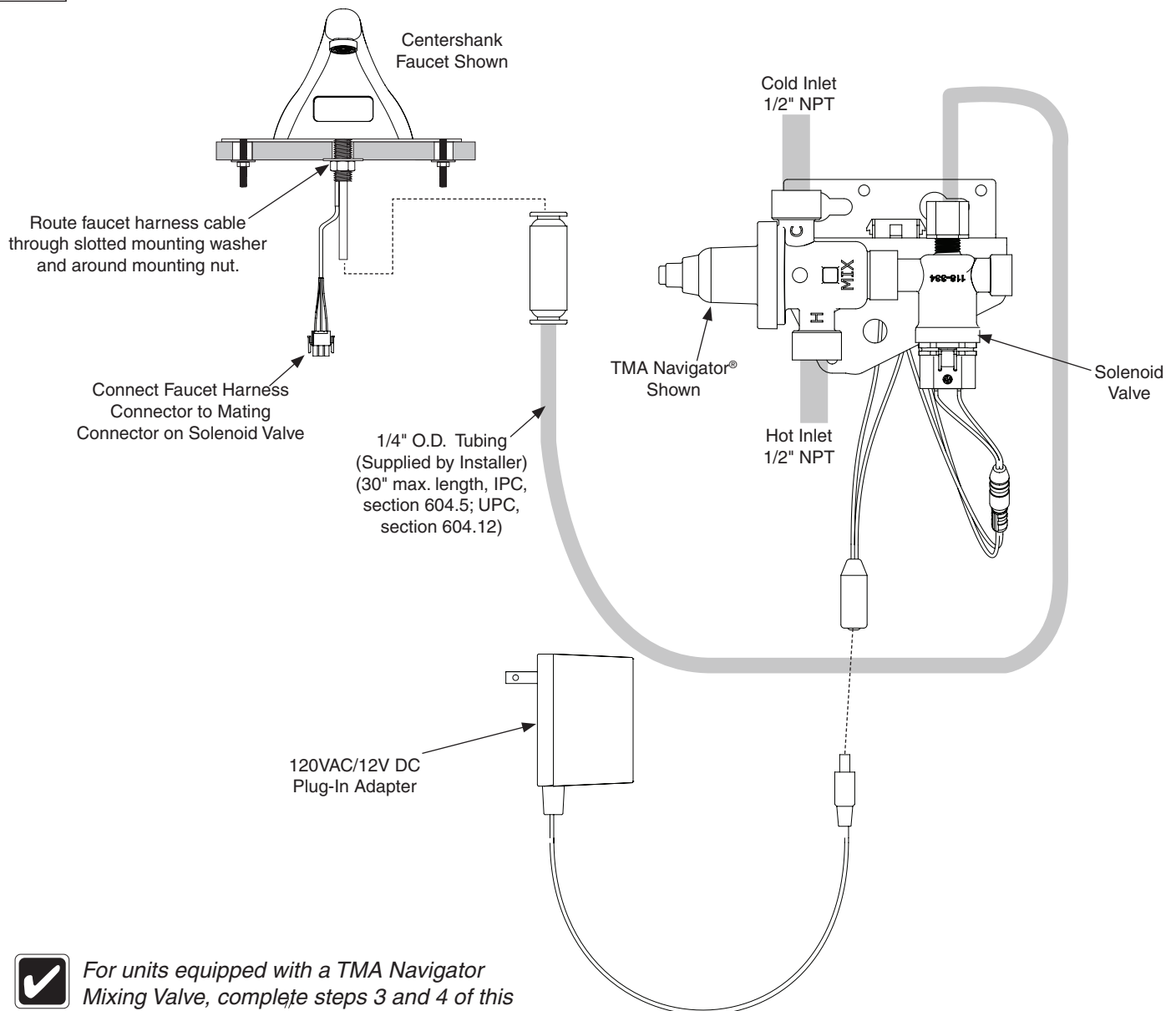
1 Mount Faucet on Deck

A Drill holes in deck to the size and position for your faucet configuration, as shown on previous page.

B Attach faucet and trim plate (if applicable) securely to deck. Seal around faucet and trim plate with plumber's putty.



2 Connect Water and Electrical Supply



For units equipped with a TMA Navigator Mixing Valve, complete steps 3 and 4 of this installation manual.

3 Adjust Temperature with Running Water



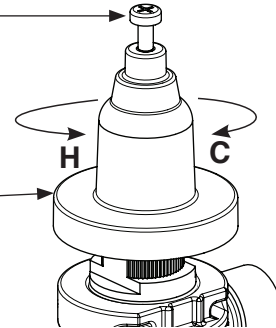
This step only applies for units equipped with a TMA Navigator Mixing Valve.



This valve is NOT factory preset. Upon installation, the temperature of this valve must be checked and adjusted to ensure delivery of a safe water temperature. Water in excess of 110°F (43°C) may cause scalding.

A Loosen cap screw about 1/4" (4-6 turns) and lift up cover (do not remove).

B Using cover, turn cartridge gently until desired water temperature is reached. Do not turn past stops as this may damage unit. Push cover down and tighten screw.



4 Test Unit



DO NOT SKIP THIS STEP!!!



This step only applies for units equipped with a TMA Navigator Mixing Valve.

A

Shut the hot water inlet off by closing hot water inlet valve. While the hot water supply is turned off, check to make sure the cold water flow is reduced. If the cold water is reduced properly, reopen the hot water supply.

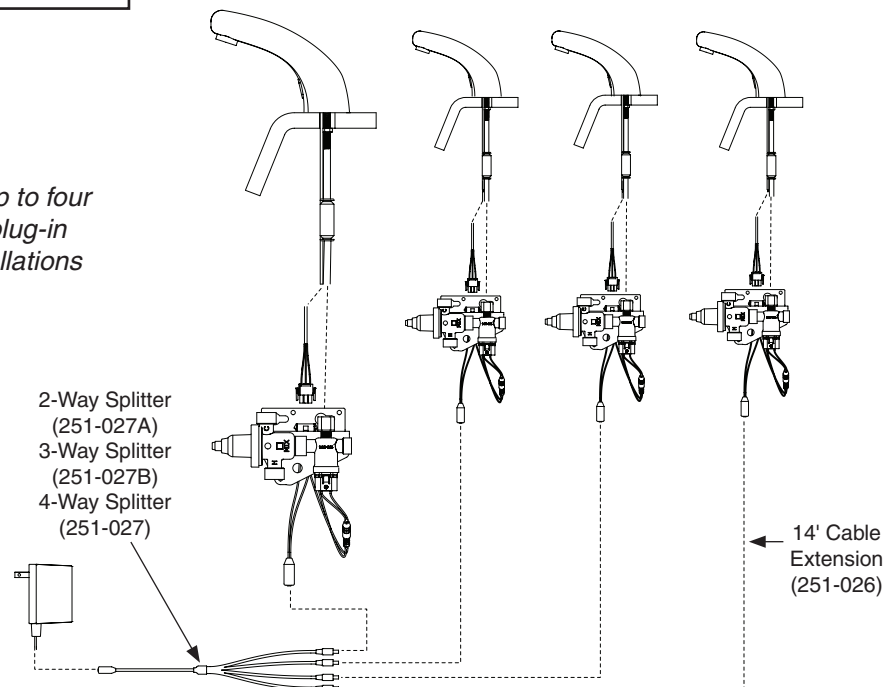
B

Shut the cold water inlet off by closing the cold water inlet valve. While the cold water supply is off, check to make sure that the hot water flow has shut down.

Multi-Faucet Wiring



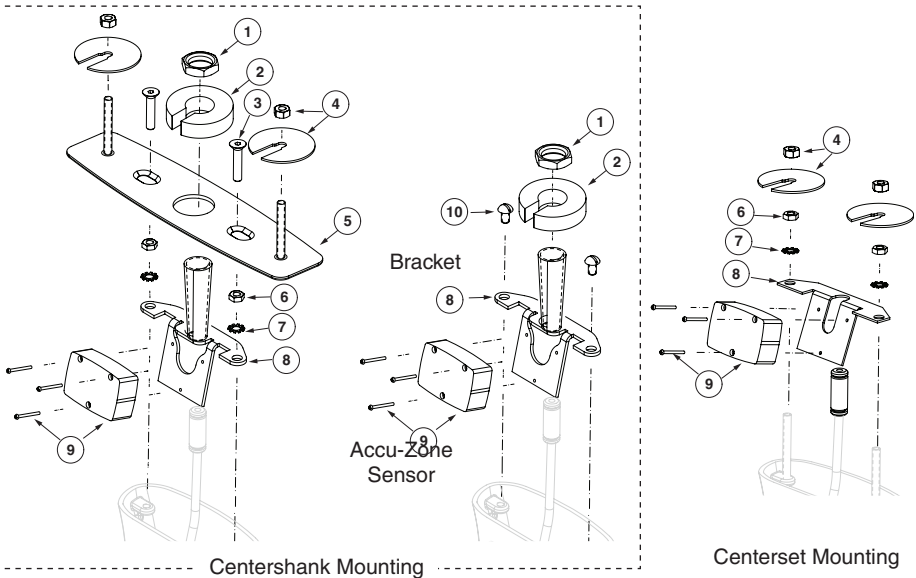
One plug-in adapter operates up to four faucets at one time. Additional plug-in adapter(s) are required for installations with more than four faucets.



Replacing the Sensor

CAUTION To avoid personal injury and/or damage to the faucet, **TURN OFF** the electrical power and water **BEFORE** beginning any cleaning, troubleshooting or maintenance.

- A** Disconnect the faucet harness connector from the solenoid valve and remove the faucet from the deck.
- B** Following the illustrations at right for your faucet configuration, remove the screws and /or nuts holding the bracket, then carefully remove the bracket and sensor assembly from the faucet shell.
- C** Remove screws securing the existing sensor to bracket. Installation of the new sensor is the reverse process.



NOTICE! Sensor must be flush and parallel with the lens.
Do not force or bend the bracket!

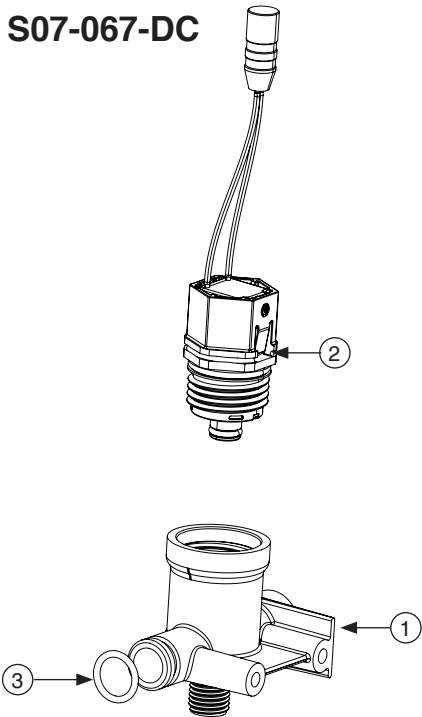
Troubleshooting – Solenoid Valve

Problem	Cause	Solution
Faucet fails to shut off and drips.	The cartridge valve is defective.	Replace cartridge.
Faucet fails to turn on.	A failed valve or loose electrical connection to the connectors.	1. Repair loose connection. 2. If possible, determine whether sensor, power adapter or valve is defective by swapping parts with an adjacent faucet. Replace defective part.

S07-067-DC

Parts List for S07-067-DC

Ref.	Part No.	Description
1	118-334	Valve Body
2	S27-352	Cartridge
3	125-165	O-Ring, #2-013



Troubleshooting – Thermostatic Mixing Valve

Before attempting to troubleshoot the valve or disassemble the components, check for the following conditions:

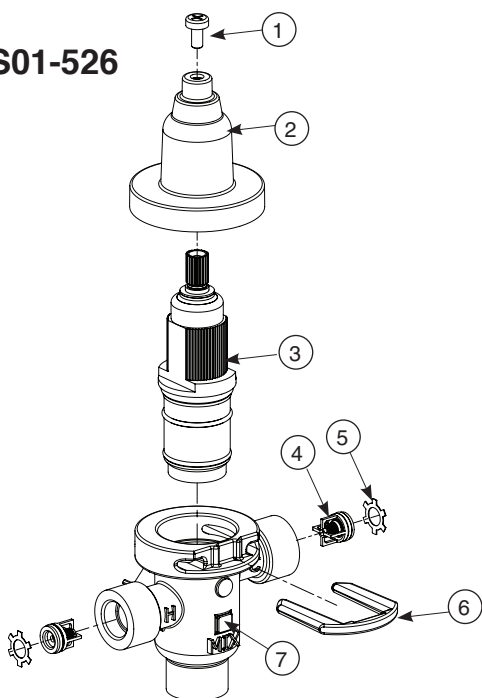
- If stop valves are used, make sure that they are fully open.
- Make sure that the hot and cold inlet pipes are connected properly, and that there are no cross-connections or leaking stop valves.
- Check the hot water heater output to make sure that it is at least 10° F above the set temperature.



Close the appropriate shut-off valves prior to disassembly and reopen valves after inspection and repair is complete.

Problem	Cause	Solution
External leaks.	Damaged cartridge or O-rings.	Replace cartridge with part number 269-1927
Improper water temperature or temperature fluctuation.	Hot water supply is not 10° above desired set point.	Increase hot water supply temperature
	Valve temperature is not properly set.	Adjust the temperature as shown on page 4 step 3.
Limited water flow.	Dirt and debris have built up in the valve or strainer.	1. Check to make sure both hot and cold supplies are connected to the Navigator mixing valve and that they have water flow. 2. Remove cover and U-clip. Remove the cartridge and clean the strainer. It is not required to grease cartridge, however if desired, use silicone grease only. Do not use grease on check valves.

S01-526



Parts List for S01-526

Ref.	Part No.	Description
1	160-463	Cap Screw
2	107-582	Cover
3	269-1927	Thermostatic Cartridge
4	198-014	Check Valve*
5	132-051	Retaining Ring*
6	146-079	U-Clip
7	118-319	Valve Body

* Included with Prepack S65-326

**Tempered Line Adapter Option:
Part no. S39-804**

Strainer
173-028

