

## Installation

## Aerada<sup>™</sup> 1200 Series CS Faucet

S53-315 Battery Operated Capacitive Sensing Faucet Centershank with 4-inch Trim Plate (Optional: 8-inch or no Trim Plate)





Installation	

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



Pressurized plumbing fixtures must be installed in accordance with manufacturer's recommendations. The supply piping to these devices must be securely anchored to the building structure to prevent unnecessary movement of the installed device when operated by the user. Use extreme caution when installing the device to prevent damage to the exposed significant surface.



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



Flush water supply lines before making connections. DO NOT use pipe dope on any faucet or supply connections. Possible valve contamination could occur which will void any warranty. Teflon tape is the recommended sealant.



Product warranties may be found in the "Products" section of our web site at www.bradleycorp.com.

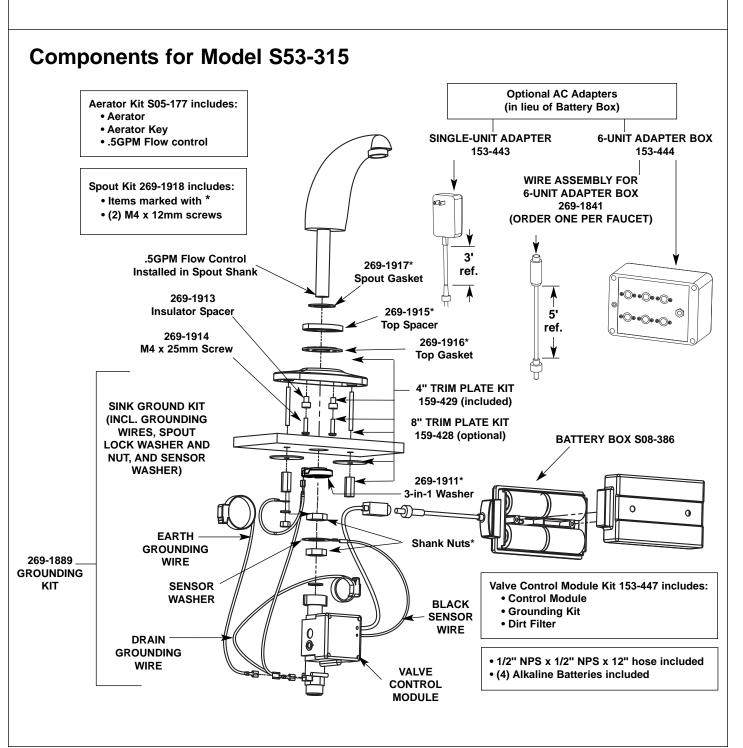
215-1582 Rev. G; EN 10-02-011 © 2010 Bradley Corporation Page 1 of 7 7/6/2010

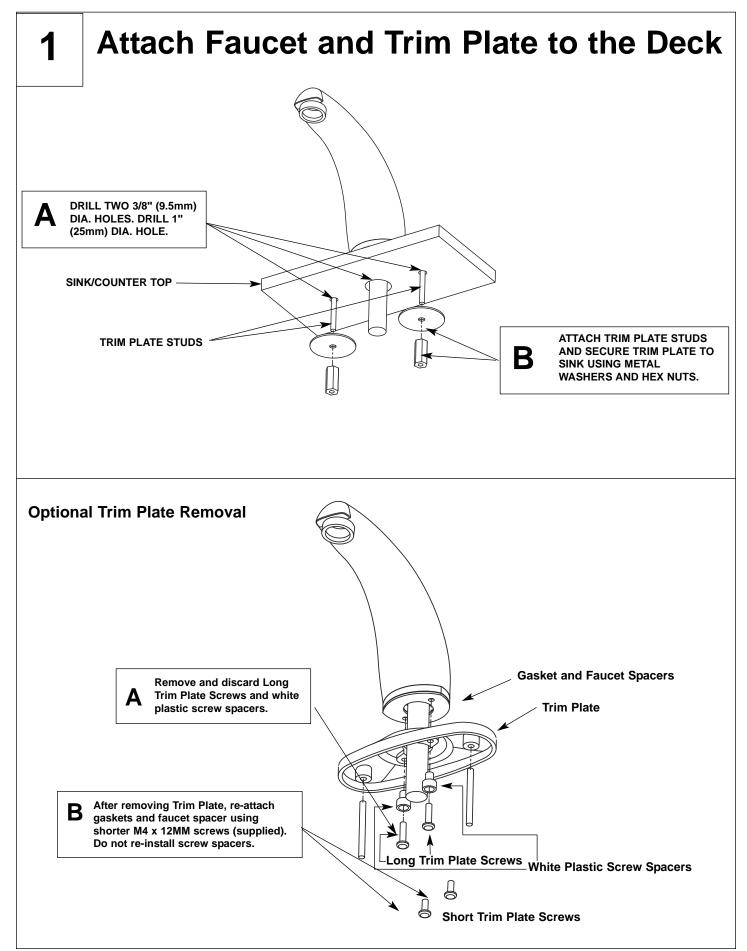


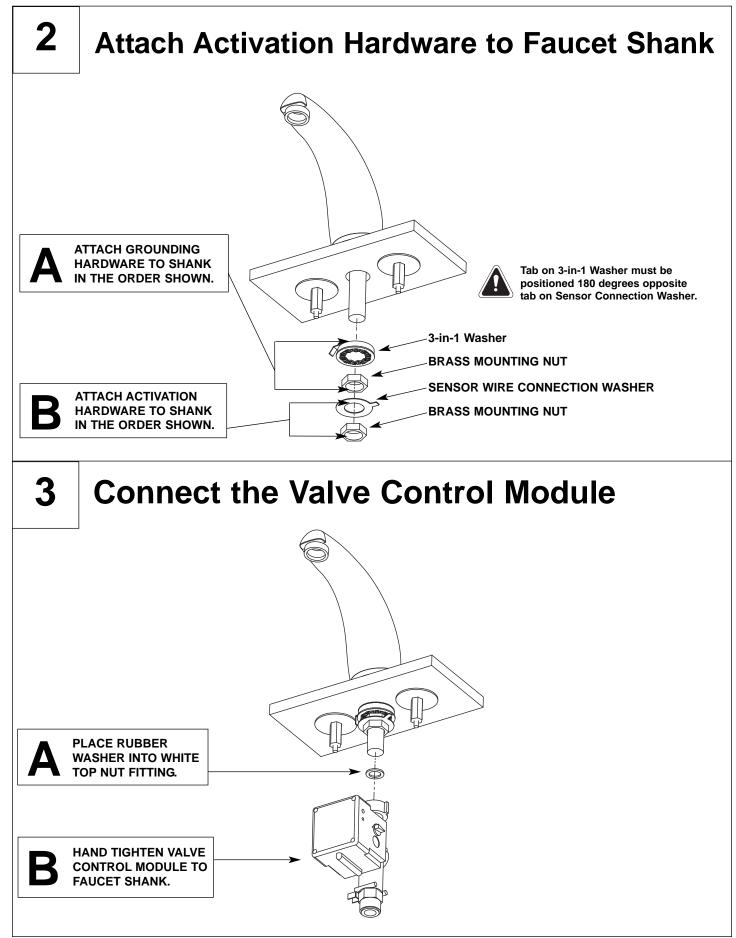
P.O. Box 309, Menomonee Falls, WI USA 53052-0309 PHONE 1-800-BRADLEY FAX (262) 251-5817 http://www.bradleycorp.com

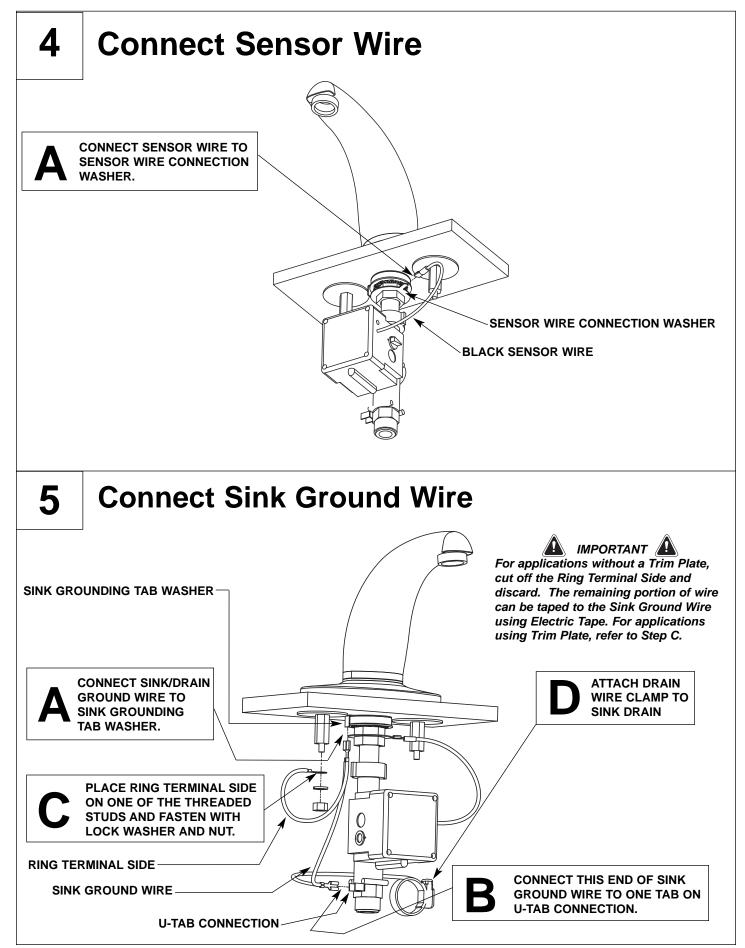
## **Table of Contents**

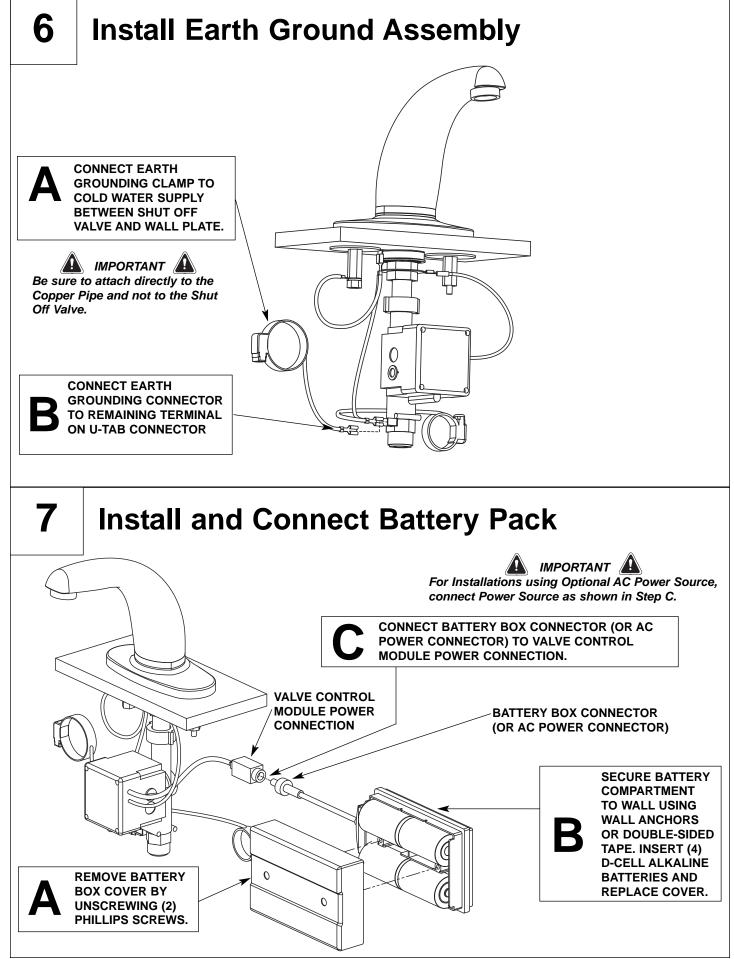
Faucet Components	2
Installation	
Spout Isolation	3
Mount the Faucet	4
Connect Valve Control Module	5
Faucet Grounding	6
Connect Drain Ground	7
Troubleshooting	8











## **Troubleshooting Guide**

Problem	Cause	Solution
Faucet not working (No flashing red indicator located inside clear cover of valve control box)	Batteries not inserted correctly	Remove cover from battery box and check that the batteries have been inserted to the correct orientation and are making connection to the contacts. Refer to the battery icons located on the base of the battery box tray.
	Improper or poor connection to power supply	Check that the connection from the battery box is fully inserted into the female connector on the valve control box and assure the connector round thumbnut is fully fastened.
Faucet not working and no water flows when activated (Red indicator is flashing)	Low batteries	If red indicator is flashing 5 times every 4 seconds, replace with new Alkaline batteries.
	Water source valves turned off	Open water source valves and check that there is water flow.
	Sensor shorted to ground or unit unable to calibrate	If red indicator is flashing once or multiple times every 4 seconds, there is a problem with the installation and the sensor is shorted. To verify the control box is working correctly, carefully disconnect the black sensor wire from the connection washer. With the wire disconnected, touch the connector at the end of the black wire with your fingers. The sensor should activate and water should come on. Let go of the connector and the water should shut off. If the unit works as described above and it malfunctions when you reconnect the black sensor wire to the spout assembly, then there is an error in the spout and cover plate installation. If the faucet does not activate as described when touching the sensor connector, then you have a grounding issue or there is a broken sensor wire (see troubleshooting below).
	Improper ground connection	There is improper earth grounding if the faucet activates when you touch any of the steel braided supply hoses, the brass fitting on the valve box, or the mixing valve. Verify that the ground clamp has been installed and recheck the connections. Verify the clamp is tightly fastened directly to the copper pipe for a proper ground connection. Reset the unit following procedure below*.
	Broken or corrupt sensor wire or defective valve box electronics.	If the connector has broken off of the black sensor wire or the valve box appears to be defective please contact Bradley Technical Service. Do not attempt to repair the valve box or sensor wire.
Intermittent cycling and/or water runs on after activation	Poor sensor washer and wire connection	Verify the brass nuts that fasten the connection washer are fully tightened. Reconnect the sensor wire to the washer. Reset the unit following procedure below*.
	Insufficient ground connection	Verify that the earth ground clamp has been installed and recheck the connections. Verify the clamp is tightly fastened directly to the copper pipe for a robust ground connection. Reset the unit following procedure below*.
Intermittent cycling and /or faucet actuation is overly sensitive	Isolation parts are not installed or not installed correctly.	If the faucet activates when you touch the sink, the unit installation is improper. Check that isolation components are used and installed correctly. Verify the sink ground connection is in place and installed properly.
Water stays on or runs on after you pull your hand away	Drain grounding not connected or assembled.	Check that the drain ground is assembled to the threaded portion of the metal drain ring (not on the pipe) and is connected to the tab on the valve control box. Reset the unit following procedure below*.
Water stays on	There is sensor short to ground or unit is not calibrating.	Reset the unit following procedure below*. If water continues to run, there is an error in the installation and grounding scheme (see above).
	Dial set to the "open" position or not turned to the full "auto" position	Turn the knob on the side of the valve control box fully to the "auto" position (until it hits the stop) and actuate the faucet by placing your hand near the spout. Water should stop running and unit will return to the normal idle operation mode once you remove your hand from the spout.
Water is dripping from spout when not actuated	Debris or particulate matter is trapped in valve	Turn off water source valves. Remove aerator from end of the spout and examine for dirt and particulates. Inspect and clean input dirt filter. Reinsert filter and turn water source back on. Actuate faucet several times without the aerator installed to flush any debris from the valve mechanism until dripping has ceased. Reinstall aerator.
	Dial not turned to the full "auto" position	Turn the knob on the side of the valve control box fully to the "auto" position (until it hits the stop) and actuate the faucet several times by placing your hand near the spout. Water should stop running or dripping and unit will return to the normal idle operation mode once you remove your hand from the spout.

\* How to Reset the Unit: Disconnect power source for 10 seconds. The valve will close and the water will stop running. After 10 seconds, reconnect power supply. Let unit recalibrate for another 20 seconds and verify faucet activation.