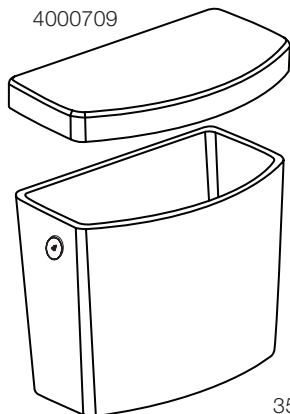
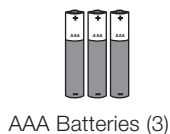


INSIDE THE BOX

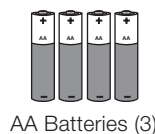
TANK
4000709



KIT INCLUDED WITH TANK



AAA Batteries (3)



AA Batteries (3)



Hand
Sensor



Tank to Bowl
Gasket



Attachment
Handle



Plastic
Washers (2)



Nuts (2)

3517A101
CHAIR HEIGHT
ELONGATED BOWL



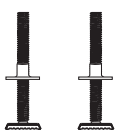
NOTE: Retail Models
780AA.709 and 580AA.709
include tank and bowl kits in
single carton box.

3075000 / 3075120 / 3193A100
CHAIR HEIGHT
ELONGATED BOWLS



KIT INCLUDED WITH 3517A.101 BOWL ONLY

BOWL WITH EXPOSED TRAPWAY



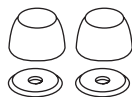
T-Bolts with
Retainer (2)



Bolt
Caps (2)



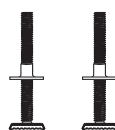
Bowl-to-Floor
Knobs (2)



Also includes
Standard Bolt
Caps (2)

KIT INCLUDED WITH BOWLS

BOWLS WITH CONCEALED TRAPWAY



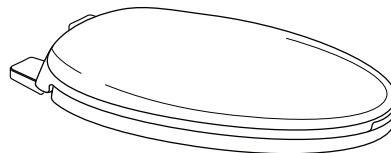
T-Bolts with
Retainer (2)



Bowl-to-Floor
Knobs (2)



Bolt Covers (2)



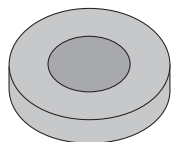
Slow Close
Toilet Seat

For seat installation, see instructions included with seat.

SOLD SEPARATELY

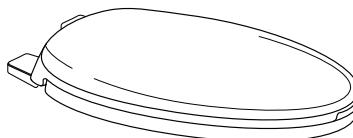


Water Supply Line



Wax Ring

(Included with retail models 780AA709 / 580AA709)



Slow Close Toilet Seat
(Included with concealed
trap toilets and retail
models 780AA709 and
580AA709 only)

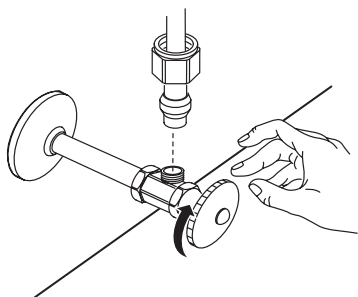


BEFORE INSTALLING YOUR TOILET

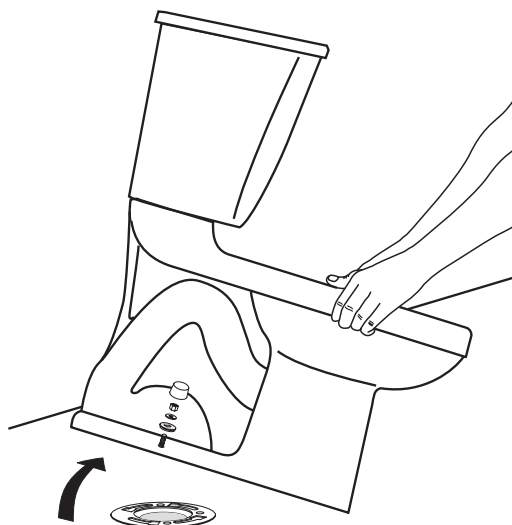
please see your product spec page to verify the dimensions and water supply connections. Visit our website where you can search by Model number for the product spec page at: <http://www.americanstandard-us.com>

IF REMOVING AN EXISTING TOILET

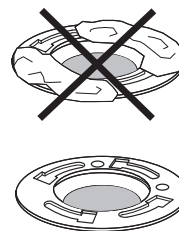
- 1** Turn off water supply



- 2** Flush to remove water from tank; sponge remaining water from bowl before removing toilet



- 3** Clean flange



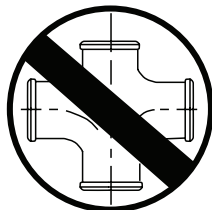
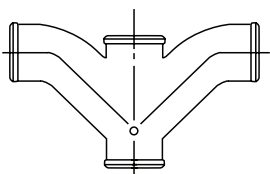
CAUTION

If leaving floor flange open for more than 1-2 hours, cover flange to prevent escaping sewer gasses.

INSTALLATION INSTRUCTIONS

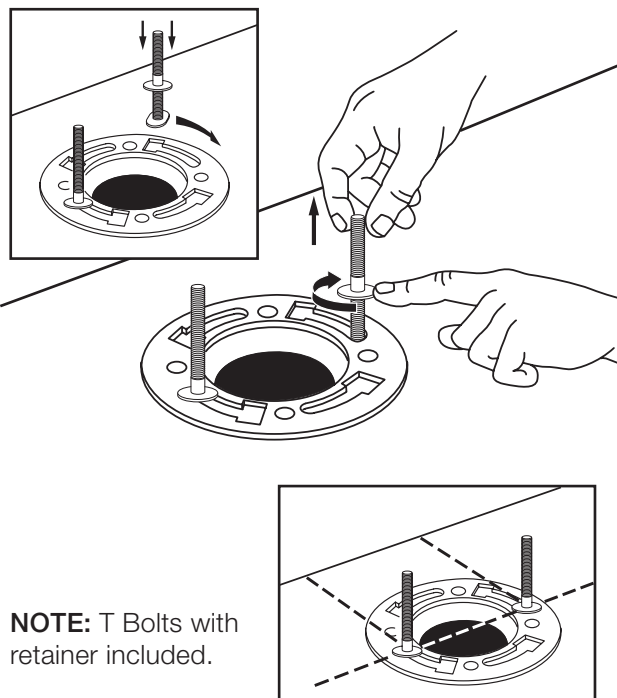
BACK-TO-BACK INSTALLATION

Depending upon your plumbing and venting conditions, the flow from this toilet in a back-to-back installation may create a vacuum on the system and draw water from the opposing bowl. The National Standards Plumbing Code prohibits the use of a cross fitting for drainage as throw over is possible. The code does approve a directional "Y" style fitting with proper venting to direct the water downward and away from the other toilet.

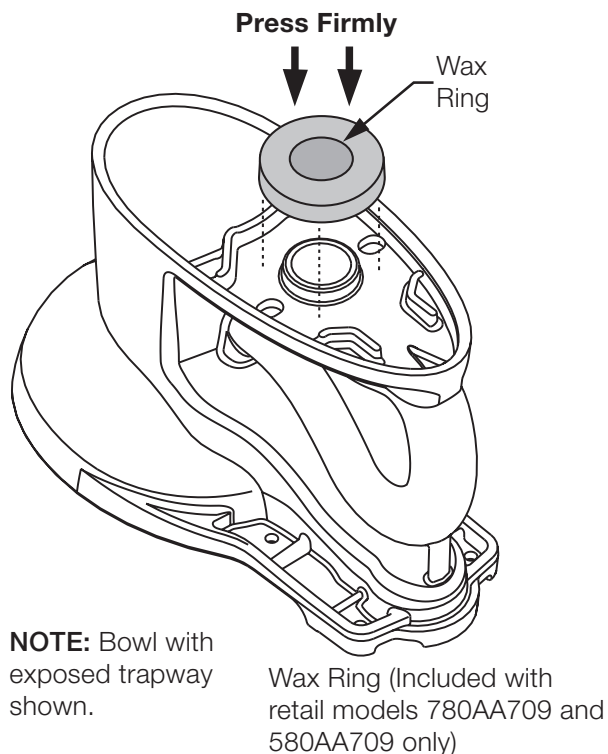


Recommended fitting type for back-to-back installations.

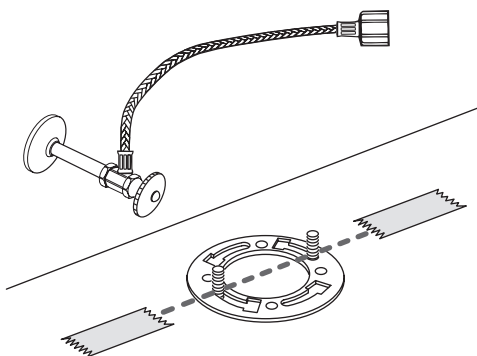
1

SECURE FLANGE

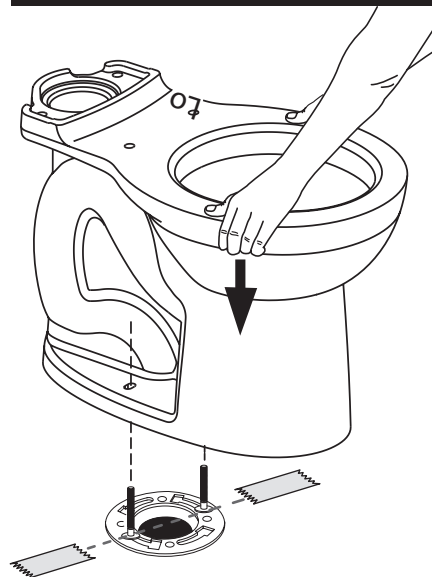
2

ATTACH WAX RING

3

CONNECT SUPPLY HOSE

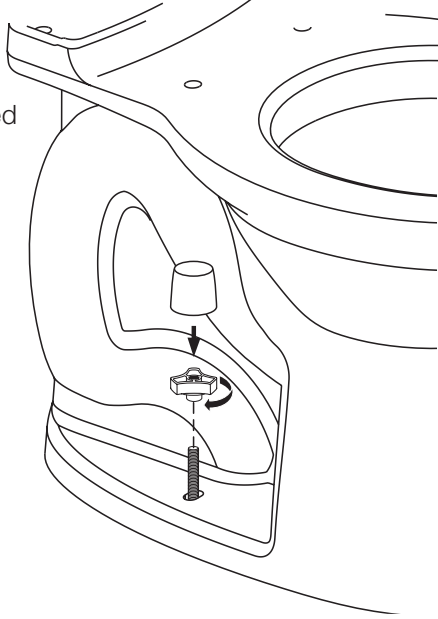
4

PLACE TOILET ON FLANGE

5

ATTACH BOWL TO FLOOR KNOBS

NOTE: Exposed trap shown. Bolt caps not used for Concealed Trap models.



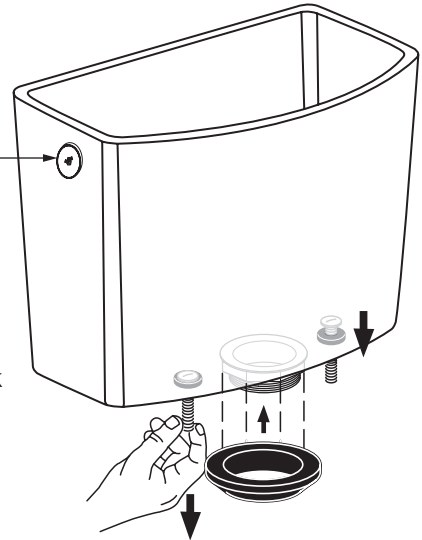
**Hand tighten only.
Do not over-tighten.**

6

ATTACH TANK TO BOWL GASKET

**MANUAL
FLUSH
BUTTON**

Install tank grommets and tank bolts in bottom of tank as shown.



Place the tank gasket over the tank nut ensuring there are no gaps between the gasket and the chinaware.

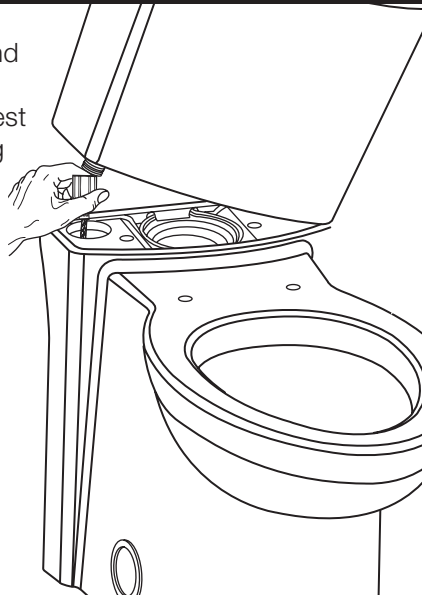


**Tank
to Bowl
Gasket**

7

CONNECT WATER SUPPLY

Thread, then hand tighten water supply. This is best done when using Concealed Trap Bowl.

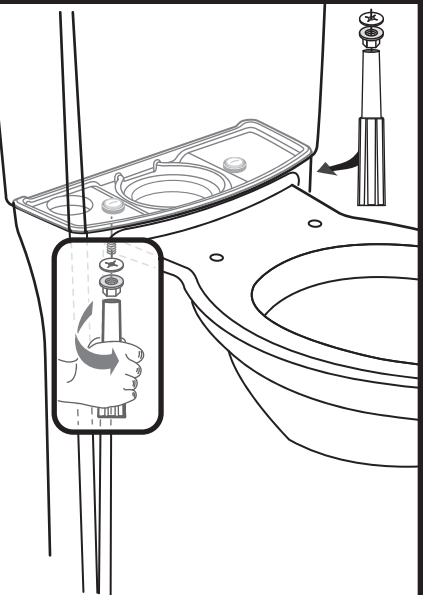


8

CONNECT TANK AND BOWL

Tighten handles alternately until tank contacts bowl.
HAND TIGHTEN ONLY!

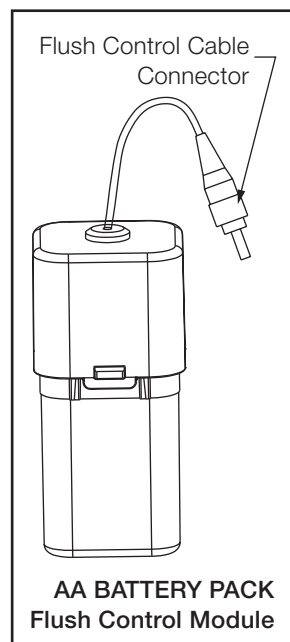
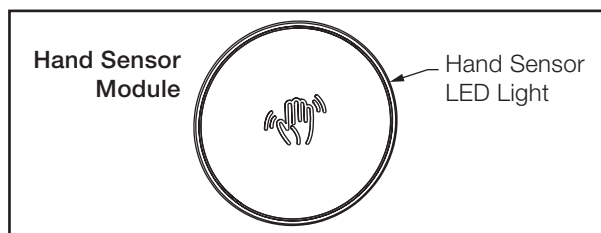
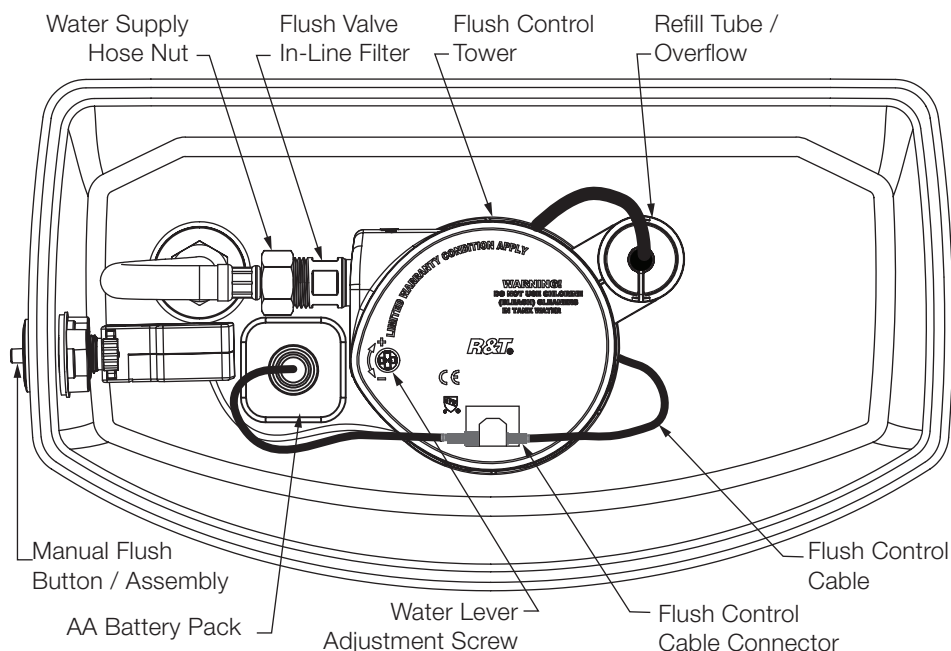
For seat installation, see instructions included with seat.



WARNING: Over-tightening of water supply line nuts could result in breakage and potential flooding.

If the connection leaks after hand tightening, replace the supply line. If the connection continues to leak with the new supply line, replace the fill valve. Do not use plumber's putty, pipe dope or any other sealant on the water supply connection. Use of plumber's putty, pipe dope, or any other type of sealant will void the warranty.

FLUSH VALVE

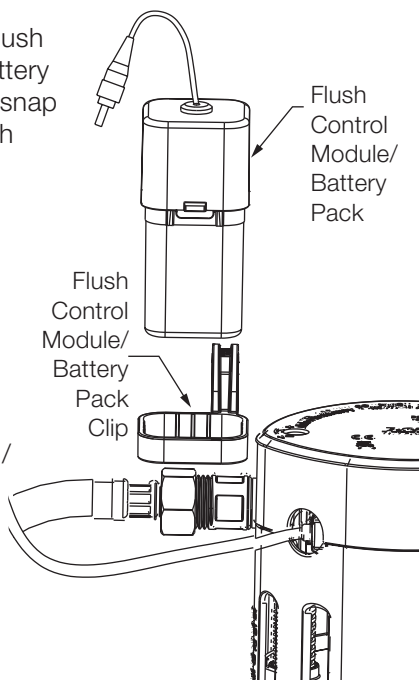


9

FLUSH CONTROL MODULE

A. Remove plastic Flush Control Module / Battery Pack Clip from box, snap and place over "Flush Valve In-Line Filter" area.

B. Remove Flush Control Module / Battery Pack from procedure in "Operational Guide", steps 4 to 9 under "Changing Batteries / Flush Control Module in Tank to add batteries to module. (ref illustration from attached drawing)

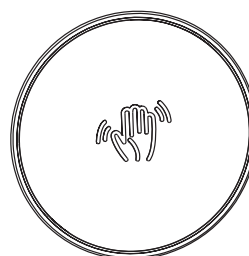


10

HAND SENSOR MODULE

Remove Hand Sensor Module from box and follow procedure in "Operational Guide", steps 1 to 3 under "Changing Batteries / Hand Sensor Module", while also referencing the **NOTES** portion at the end.

Also reference under the "Operational Guide", "Installation of Hand Sensor Module", for preferable locations to mount the Hand Sensor Module.

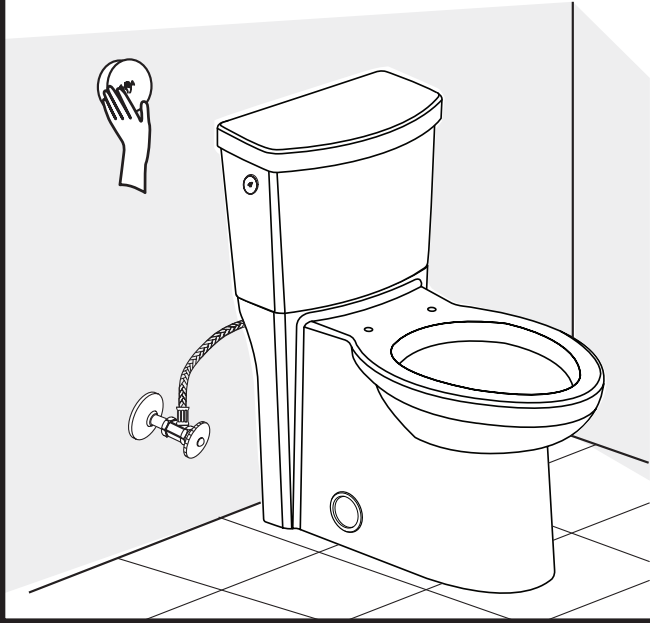


Hand Sensor Module

11

OPERATING THE TOUCHLESS FLUSH

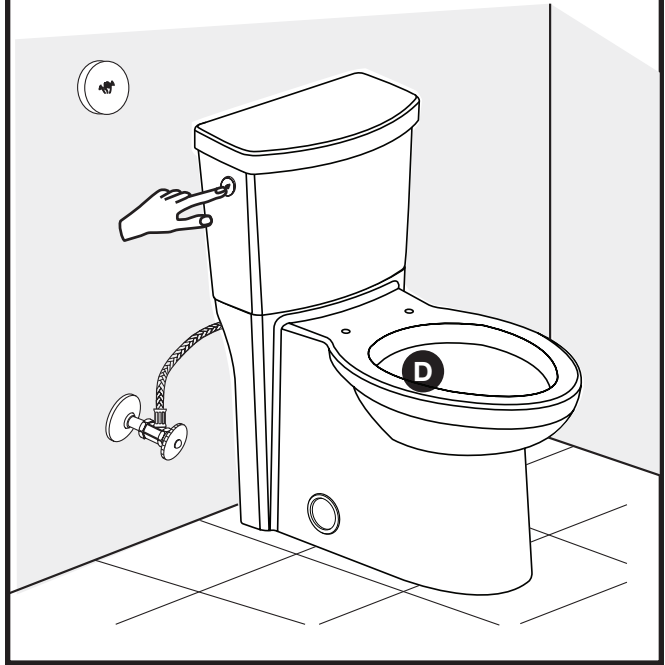
Simple hand wave over sensor face within 1-1/2 inch distance for two seconds triggers a powerful flush for a more hygienic bathroom experience. The 2-1/2 inch diameter, adhesive tape backed sensor module is supplied with mounting screws and can be installed on the wall within 3 feet of the toilet or on top of the toilet tank itself.



12

PRESS AND HOLD PUSH BUTTON

Press and hold push button actuator on left side of tank for two seconds to induce manual flush in the event batteries need replacing.



Please utilize the included signage should you feel it necessary to communicate to users how to activate the hygienic touchless flush. The signage can be affixed to the top of the tank or around the flush actuator.



Example: on tank cover



Example: around the flushing actuator on wall

OPERATIONAL GUIDE

Cadet Touchless Toilet Operational Guide: Follow instructions below for installing batteries in Flush Control Module and Hand Sensor Module.

LOW BATTERY Indication:

FLUSH CONTROL MODULE: When waving hand over the Hand Sensor Module and it starts to slowly flash 12 times, indicates that the batteries in the Flush Control Module within the tank need to be replaced.

HAND SENSOR MODULE: When the batteries are low on the Hand Sensor Module, the module will flash quickly 5 times indicating the batteries need to be replaced.

Changing Batteries / Flush Control Module in Tank:

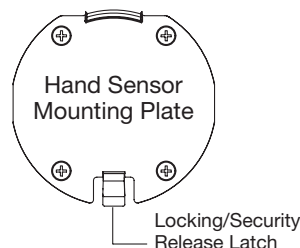
1. Turn OFF water supply to toilet, then flush toilet to remove water from tank.
2. Remove lid from tank and identify "Flush Control Module". (ref. illustration of module on page 5 above)
3. Disconnect connector wires from flush valve to Flush Control Module to separate Control Module from Flush Valve and remove Flush Control Module/AA Battery Pack (ref. illustration on page 5 above).
Note: Ensure wires do not fall into water or get wet.
4. Using a small Phillips Head Screwdriver, remove single screw holding Flush Control Module cover and gently remove cover to reveal AA battery pack.
5. Remove battery pack and remove all 4 AA batteries, then replace with new alkaline batteries.
6. Place battery pack back into Flush Control Module container making note of TOP & BOTTOM and orientation within the container (labeled on battery pack).
7. Snap Flush Control Module cover over battery pack, replace screw and securely tighten.
8. Connect wires from Flush Control Module and flush valve together, replace module back into flush valve holder.
9. Turn On water supply, allow tank to fill with water.

Changing Batteries / Hand Sensor Module:

1. Remove the 2 screws on back of hand sensor module and remove rear cover. Note: There is a rubber O Ring around the rear cover to reduce moisture from getting into the sensor which provides a snug fit and may require some effort to remove. A small flat head screwdriver will make it easier to remove.
2. Remove 3 AAA batteries and replace with new alkaline batteries.
3. Replace rear cover and screw into place.

If Hand Sensor is equipped with a locking/security feature it will be necessary to use a flat head screwdriver of approximately 1/8" (3 mm) wide to press and release the latching mechanism to remove the sensor from the location it is mounted to.

NOTE: Replace Hand Sensor Module batteries within 3 minutes after installing batteries in Flush Control Module to allow codes to match or synchronize to each other. After installing batteries, wave hand over Hand Sensor Module once which will complete code matching. If Hand Sensor Module lights up after battery installation but the toilet does not flush, remove battery, wait 1 minute, then replace battery to match or synchronize codes.



Sensor NOTE I: On hand sensor, hand needs to wave slowly over sensor 2 inches from surface. Also hand sensor needs to be within 3 feet of the toilet. Keep hand sensor at a location where it will not accidentally flush if something comes within close proximity of it.

Sensor NOTE II: When cleaning around the toilet, mainly the hand sensor, if person cleaning comes close to sensor the toilet may flush when not needed.

Installation of Hand Sensor Module:

1. The hand sensor module can be installed on a wall or in close proximity of the toilet within 3 feet using wall anchors and screws, double stick tape or Velcro Adhesive strips. Ensure placement of hand sensor can be reached by hand when sitting on the toilet.

Hand Sensor with Locking Feature:

1. If mounting sensor onto wall using wall anchors and screws, double stick tape or Velcro Adhesive strips, ensure the release latch on the sensor mounting plate is pointing toward the bottom.

Water Level Adjustment:

1. Turn on water supply. Adjust water level to water level line indicated on the back of the tank. To Raise the water level in the tank, use a Philips screw driver, turn the adjustment screw on top of the flush valve (ref. illustration above on page 5) in a clockwise direction or in the direction of the "+" symbol.
2. To Lower the water level in the tank, turn the adjustment screw on top of the flush valve in a counterclockwise direction or in the direction of the "-" symbol.

Cleaning Flush Valve In-Line Filter:

1. Shut OFF main water supply to toilet.
2. Disconnect water supply hose to Flush Control Tower using adjustable wrench. (ref. illustration on page 5)
3. To remove filter, there is a white plastic strip (tab) protruding in the center, using a small pleyer, gently pull on the strip to remove the filter.
Note: Filter has a rubber O ring around it which creates a snug fit and may require some effort to remove.
4. Clean the filter with clean water and a soft brush.
5. Re-install filter, securely connect water supply hose, turn ON water supply and check for proper operation.

Manual Flush Backup

If there is a Low Battery condition or some electronic failure of the Hand Sensor or Flush Control Module, the toilet can still be flushed manually using the Manual Flush Button on the outside of the toilets tank. Fully press and hold the button for 2 to 3 seconds until a complete flush is achieved.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
No flush or delayed flush	<ul style="list-style-type: none"> a. No batteries b. Low battery in Flush Control or Hand Sensor Module. c. Incorrect water level in tank d. The Flush piston or lift rod are stuck. e. No water in the tank f. Toilet is clogged g. Touchless hand swipe was too fast h. Touchless hand swipe was not in sensor detection area i. Water supply valve closed j. Supply line blocked k. Sand or debris lodged in filter screen 	<ul style="list-style-type: none"> a. Install 4 alkaline AA batteries to the Flush Control Module and 3 AAA batteries to the Hand Sensor Module. b. Follow procedure for low battery indication of Hand Sensor or Flush Control Module. c. If water level is too low or too high, flush performance is affected. Fill water in the tank to the correct level, as specified on the back of the tank. See "Water Level Adjustment" procedure. d. Check if the piston or lift rod moves freely. e. Fill the tank with water to the level specified on the label on the back of tank. f. Lift toilet lid and disconnect "Flush Control Cable" from Battery Pack/Flush Control Module. Unclog toilet. Press and hold "Manual Flush Button" for 2 to 3 seconds to clear trap way and confirm trap is clear of clog. Reattach "Flush Control Cable". g. Initiate a slightly slower hand swipe within the sensor area. h. Sensor detection area is directly in front of the sensor face and up to 2 inches away from the surface. i. Open valve and allow water to fill tank. j. Shut off water supply, disconnect supply line and inspect all gas-kets and washers. Reassemble. k. Shut OFF water supply to toilet. Follow procedure for "Cleaning Flush Valve In-Line Filter".
Leaking	<ul style="list-style-type: none"> a. Incorrect water level b. Debris on sealing surface c. Loose Shank Nut d. Refill water level is too high e. The refill tube is not installed properly. 	<ul style="list-style-type: none"> a. If water level is too low or too high, flush performance is affected and leaking may occur. Fill water in the tank to the correct level, as specified on the label on the back of tank. b. Remove debris on sealing surface causing the leak. c. Tighten the Shank nut to eliminate the leak. d. Leaking occurs through the overflow tube due to the Fill Valve float setting too high. Lower the float setting until the Fill Valve refills to the correct water level. See "Water Level Adjustment Procedure". e. Adjust refill tube and ensure end of tube is above water line.
Partial Flush	<ul style="list-style-type: none"> a. Refill tube is not installed in the Overflow Tube b. Incorrect water level c. Manual Flush Button not fully depressed 	<ul style="list-style-type: none"> a. Connect the refill tube to the Overflow Tube. b. If water level is too low or too high, flush performance is affected. Fill water in the tank to the correct level, as specified on the label on the back of tank. See "Water Adjustment Procedure". c. Press the Manual Flush Button in further.
Unintended Flush	<ul style="list-style-type: none"> a. Motion or object in sensor area 	<ul style="list-style-type: none"> a. Remove item from the sensor activation area.
Manual Flush Button not working	<ul style="list-style-type: none"> a. Manual Flush Button is not depressed completely b. There is no water in the tank c. Incorrect water level 	<ul style="list-style-type: none"> a. Press the Manual Flush Button in further for 2 to 3 seconds for a complete flush. b. Fill the tank with water to the level specified on the label on the back of tank. See "Water Adjustment Procedure". c. If water level is too low or too high, flush performance is affected. Fill water in the tank to the correct level, as specified on the label on the back of tank. See "Water Adjustment Procedure".
Hand Sensor Module flashes slowly 12 times	<ul style="list-style-type: none"> a. Indicates battery power is low in Flush Control Module in tank 	<ul style="list-style-type: none"> a. Replace batteries in Flush Control Module in tank.

Continued on next page

TROUBLESHOOTING GUIDE

Continued

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Hand Sensor Module flashes quickly 5 times	a. Indicates battery power is low in Hand Sensor Module	a. Replace batteries in Hand Sensor Module.
Toilet leaks	a. Poor supply line connection b. Poor bowl to tank/floor connection	a. Remove supply line, inspect and reconnect. Replace supply line if leak continues. b. Review Step 2 through 8 of installation procedure.
Toilet bowl rocks after installation	a. Wax ring not fully compressed b. Floor not level	a. Retighten bowl-to-floor knobs. b. Use toilet shims and/or place a bead of caulk around the base of the toilet.
The Hand Sensor Module can light up by sensing, but does not flush	a. The Flush Control Module in tank is not connected properly. b. The codes of the Hand Sensor Module and Flush Control Module are not matched or synchronized to each other. c. The battery pack in the Flush Control Module may not be orientated correctly.	a. Ensure wire from Flush Control Module to Flush Valve Body is fully connected. b. Install Hand Sensor Module batteries within 3 minutes after installing Flush Control Module batteries to allow codes to match or synchronize. c. Orientate the batteries in the battery pack

CARE AND CLEANING

When cleaning your toilet, wash it with mild, soapy water, rinse thoroughly with clear water and dry with a soft cloth. **WARNING:** Do not use in-tank cleaners. These products can seriously corrode fittings in the tank. This damage can cause leakage and property damage. **American Standard shall not be responsible or liable for any damage caused by the use of in-tank cleaners.**

Control module FCC ID: 2AW23-D7020-01

Sensor module FCC ID: 2AW23-D7020-02

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful Interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

TELL US WHAT YOU THINK!

Please leave us a product review or story
at **americanstandard.com/reviews**

Find installation videos at
youtube.com/americanstandard

Register your warranty and sign up for an idea-filled newsletter at
americanstandard-us.com/support/warranty

PLEASE COMPLETE AMERICAN STANDARD WARRANTY REGISTRATION PROCESS AND

SAVE THIS WARRANTY INFORMATION IMPORTANT:

Registration of the sink must be completed for this warranty to become effective. Your registration will make it easier to contact you in the event of a product recall.*

INSTRUCTIONS: Register your sink at www.americanstandard.com. Please save your proof of purchase (sale receipt). If you need assistance or do not have access to our website, please contact American Standard Customer Care at: (800) 442-1902. An American Standard representative will assist in completing the warranty registration.

*In California, your warranty rights remain intact even if you do not complete the registration process.



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