



MAC FAUCETS LLC.

Owner's Manual Model AUV-3 and ATV-3



ATV-3 Toilet Flush Valve



AUV-3 Urinal Flush Valve

MAC FAUCETS LLC.

NOTE

- Check your local code and regulations for all plumbing.
- Water Supply Lines must be the proper size to provide the volume of water required for each unit
- Flush the water lines through the stop valve at high volume prior to installing flush valve
- Dirt and debris can cause damage to flush valve
- Do not locate Sensor units across from each other or in close proximity to highly reflective surfaces

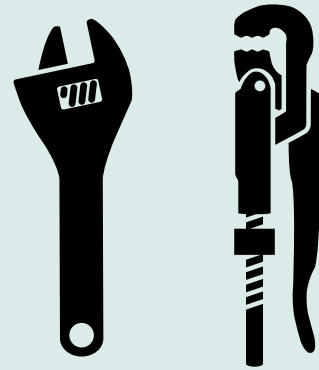
LIMITED WARRANTY

MAC FAUCETS WARRANT THIS PRODUCT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF PURCHASE. MAC FAUCETS WILL REPLACE, FREE OF CHARGE, DURING THIS WARRANTY PERIOD, PARTS THAT PROVE DEFECTIVE WHEN PROPERLY INSTALLED AND UNDER NORMAL USE AND SERVICE. DAMAGE THAT OCCURS AS A RESULT OF ABUSE, IMPROPER INSTALLATION, ENVIRONMENTAL CONDITIONS, OR IMPROPER APPLICATION WILL VOID THIS WARRANTY. PRODUCTS MUST BE SHIPPED WITH POSTAGE AND HANDLING PREPAID, ALONG WITH DATED PROOF OF PURCHASE. THIS WARRANTY DOES NOT COVER INSTALLATION OR ANY OTHER LABOR CHARGES. IT DOES NOT COVER SHIPPING AND HANDLING OF BOTH REPLACEMENT PARTS AND RETURNED DEFECTIVE PARTS. PRODUCTS OR COMPONENTS THAT HAVE BEEN ALTERED OR IN ANY WAY MODIFIED WILL NOT BE COVERED UNDER THIS WARRANTY. REPLACEMENT PARTS ARE UNDER WARRANTY ONLY FOR THE REMAINING PERIOD UNDER THE INITIAL WARRANTY. SOME STATES DO NOT ALLOW FOR EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGE.

AUV-3 AND ATV-3

Tools Needed NOT SUPPLIED

Crescent Wrench or Wide Open Pipe Wrench to tight hex nuts from 1-1/4" to 2", do not use toothed pipe wrench that can damage the decorative finish of the flush valve



Flat screw driver to open/close stop valve, and to adjust water flow



Valve is shipped with 4 AAA batteries pre-installed. When necessary to replace batteries, use Phillips screw driver to remove battery pack screw



Allen Wrench Supplied

Allen Wrench for Wall Flange Set Screw

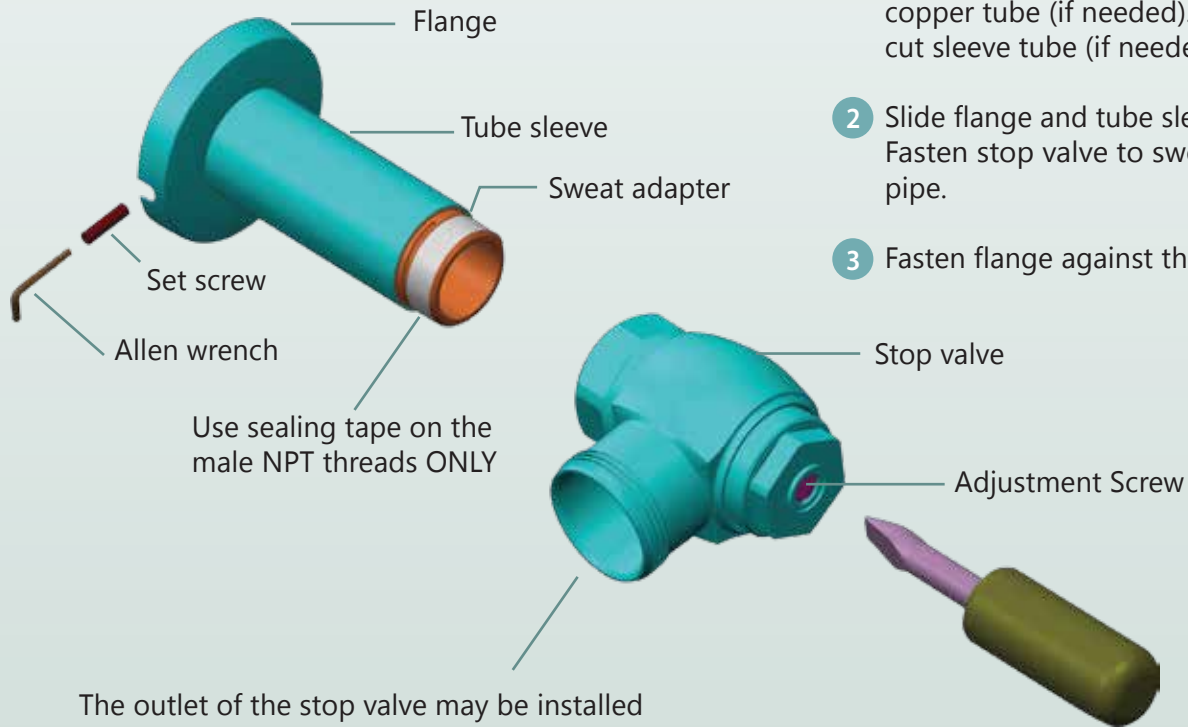


Allen Wrench for Flush Valve Cap Screws



Stop Valve Installation

Before the supply water is turned on, make sure all stop valves are closed tight.
To close the valve turn adjustment screw clockwise .



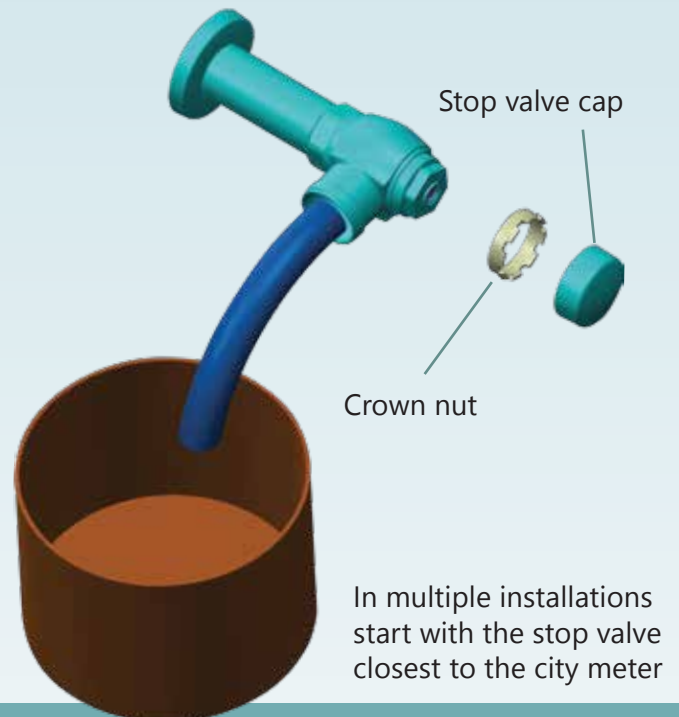
- 1 Solder sweat adapter onto existing copper tube (if needed). Measure and cut sleeve tube (if needed).
- 2 Slide flange and tube sleeve over pipe. Fasten stop valve to sweat adapter or pipe.
- 3 Fasten flange against the wall.

The outlet of the stop valve may be installed to the left, or to the right side depending on the placement of the toilet or the Urinal

System Flushing

When all the stop valves are connected and water pressure is on, it is recommended that the supply pipes are flushed to remove dirt and debris from the water system

- 4 Before the flush valve is installed, open each stop fully for 1 to 2 minutes.
Use a large bucket to catch the water

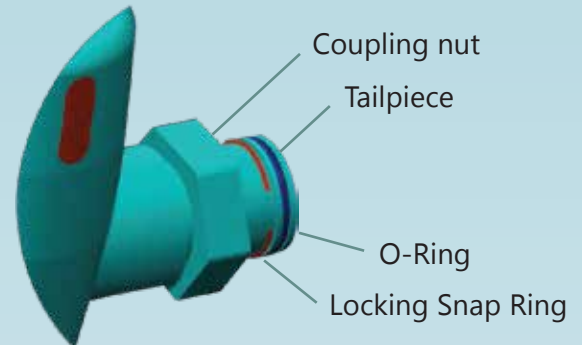


Flush valve to Stop Connection

- 5 Lubricate the O-ring with water. Place the flush valve tailpiece into the stop valve. Make sure that the locking snap ring and the O-ring are inserted correctly. Hand tighten the coupling nut, **DO NOT CROSS THREAD**



Manual Push Button



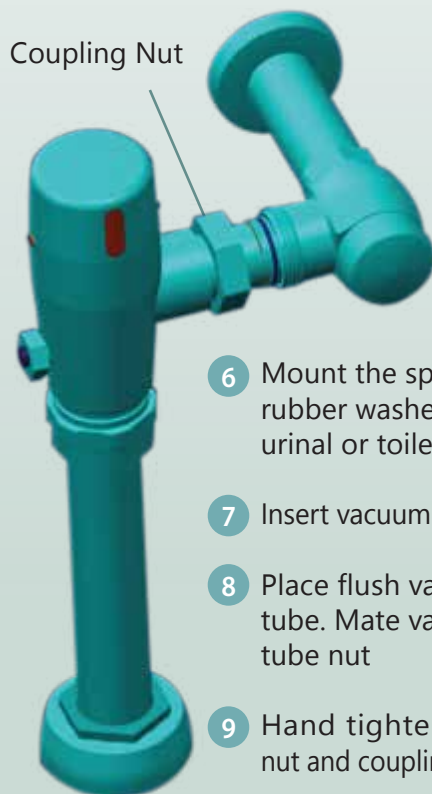
Coupling nut

Tailpiece

O-Ring

Locking Snap Ring

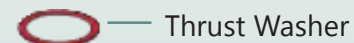
Flush connections and spud coupling kits



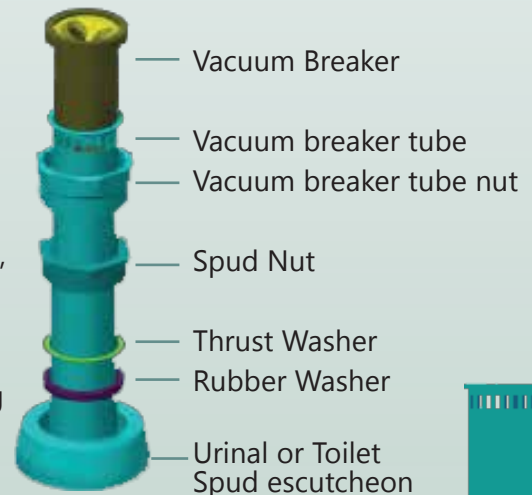
Coupling Nut

- 6 Mount the spud coupling (spud escutcheon, rubber washer, thrust washer, spud nut) to urinal or toilet spud. Keep spud nut loose.
- 7 Insert vacuum breaker tube into spud coupling
- 8 Place flush valve on top of vacuum breaker tube. Mate valve body with vacuum breaker tube nut
- 9 Hand tighten both vacuum breaker tube nut and coupling nut (**DO NOT CROSS THREADS**).

ATV-3



Thrust Washer



Vacuum Breaker

Vacuum breaker tube

Vacuum breaker tube nut

Spud Nut

Thrust Washer

Rubber Washer

Urinal or Toilet Spud escutcheon

AUV-3





Vacuum Breaker Tube Length

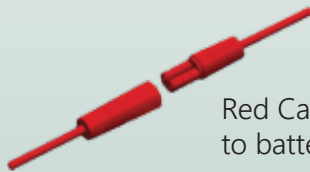
- 10 Measure the length of vacuum breaker tube accurately. If cutting is needed proceed to step 12. If cutting it is needed uninstall and remove the vacuum breaker tube, and make a straight cut. Sand off the sharp edge of the cut.
- 11 Re-install the vacuum breaker tube to the spud coupling first, and then to the flush valve body.
- 12 Tighten all nuts with a non-toothed wrench. Use heavy cloth or similar material over the nuts in order to protect the finish. **DO NOT CROSS THREAD**

Wire Connections

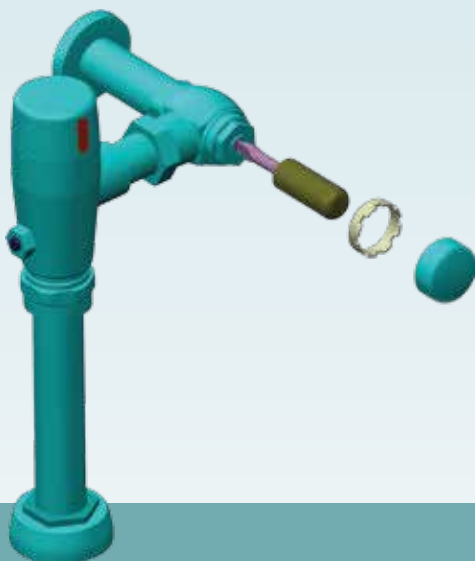
- 13 After the flush valve has been installed, remove the cap. To do so, unfasten the two screws on the side of the cap with supplied Allen wrench then twist and pull cap off (do not lose plastic washers).
- 14 Connect the sensor to the battery pack (red plugs) and the sensor to the solenoid (black plugs). Make sure the sensor is facing forward towards the user, and place the cap back on the flush valve. **DO NOT PINCH WIRES.** Use the supplied Allen wrench to refasten the two cap screws. **DO NOT FORGET PLASTIC WASHERS**



Black Cable,
sensor to solenoid



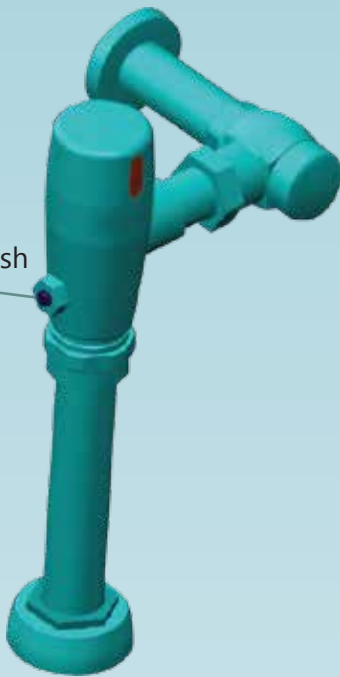
Red Cable, sensor
to battery pack.



Final Step

- 15 Turn the water on at the stop valve by turning the adjustment screw counter-clockwise slowly. **CHECK FOR LEAKS.** Adjust the water flow by turn adjustment screw counter-clockwise for more water, clockwise for less water. Place stop valve cap back on.

Manual Push
Button

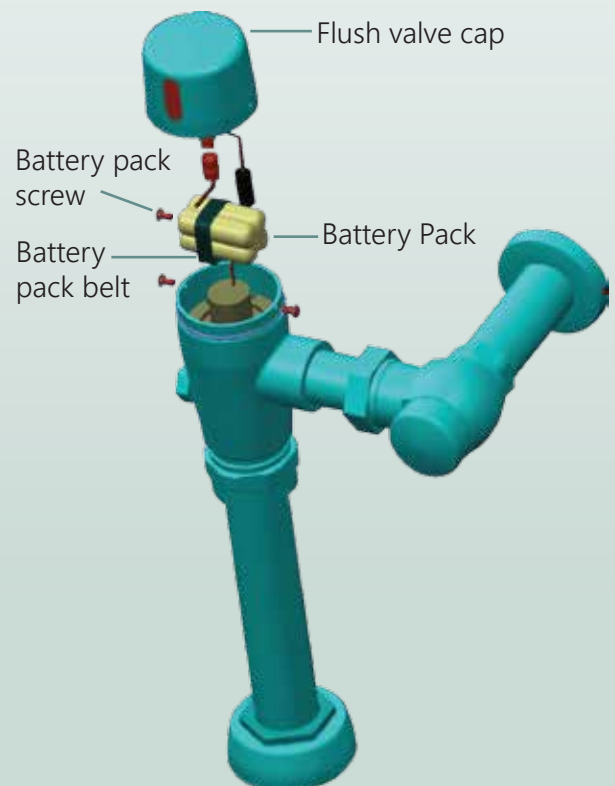


Operation

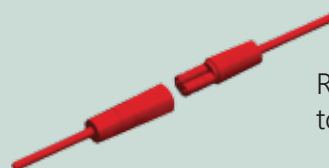
- 1 Automatic operation starts when the sensor senses an object and the red light starts blinking. The object must be present in front of the sensor for 6-10 seconds in order to prevent accidental flushing.
- 2 Once the object has left sensor area, (toilet, urinal stall) a delay of 2-4 seconds may occur, after which, toilet or urinal will flush
- 3 For Manual operation depress push button located at the side of the Flush valve

Batteries Replacement

- 1 Remove flush valve cap by unfastening the two screws on each side of the valve with supplied Allen wrench. Twist and pull the flush valve cap off. DO NOT LOSE PLASTIC WASHERS
- 2 Grab the battery pack belt and gently pull it out of the flush valve cap.
- 3 Unplug the Battery pack from the sensor (Red Plugs). With a #1 Phillips screw driver, remove the battery pack screw and split open the battery pack.
- 4 Remove the old batteries and replace with new AAA Duracell Copper Top batteries. Make sure that the batteries are placed in the proper position.
- 5 Plug the battery pack to the sensor, then put it back inside the flush valve cap. The sensor might blink a few times when it is first plugged into battery pack.
- 6 Place the flush valve cover back on with sensor facing forward. Refasten Allen screws. DO NOT FORGET PLASTIC WASHERS. The flush valve is ready for use.

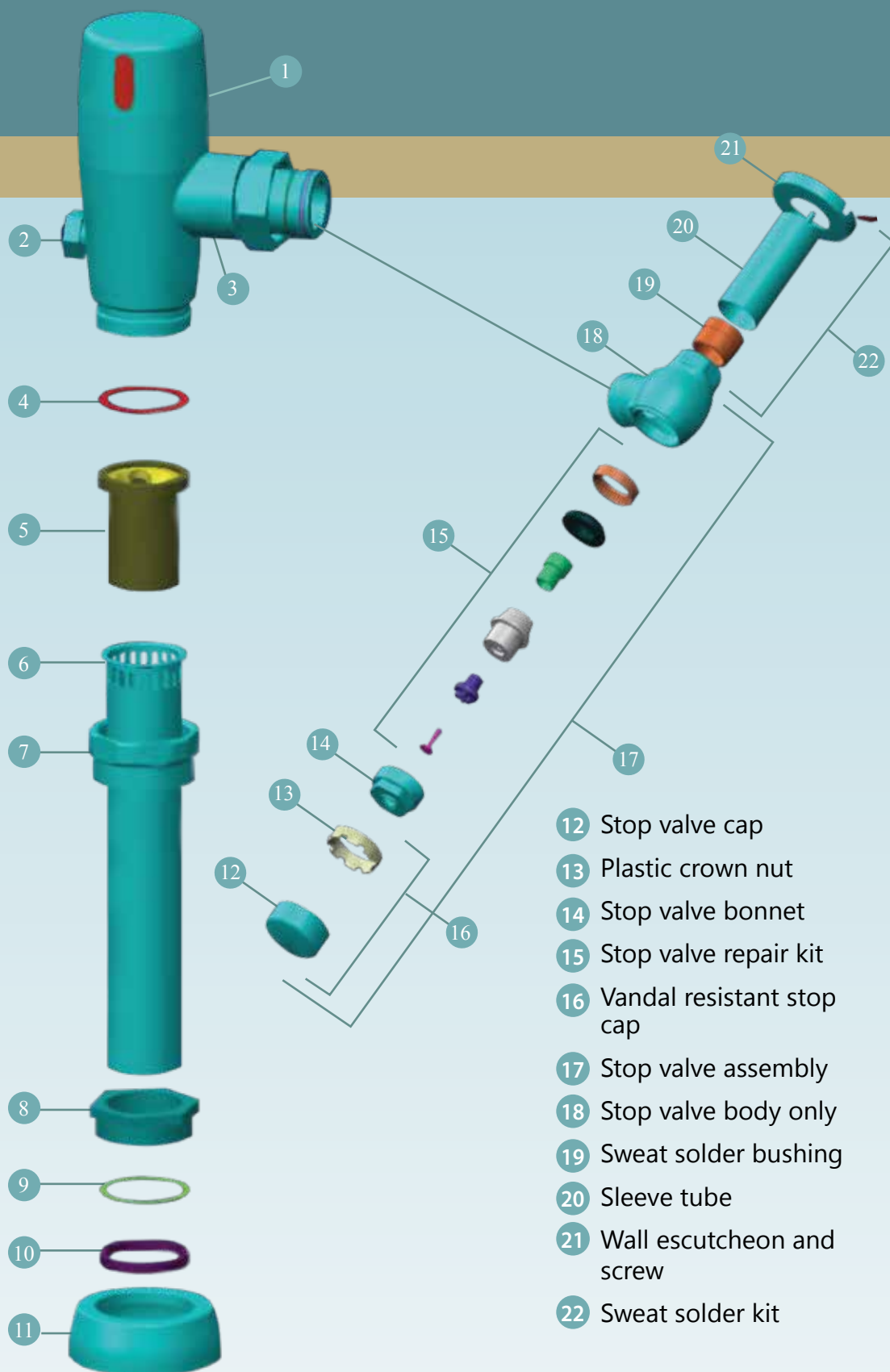


Black Cable,
sensor to solenoid



Red Cable, sensor
to battery pack.

- 1 Flush valve top cap
- 2 Manual flush assembly
- 3 Tailpiece
- 4 Vacuum breaker thrust washer
- 5 Vacuum breaker
- 6 Vacuum breaker tube
- 7 Vacuum breaker nut
- 8 Spud nut
- 9 Spud thrust washer
- 10 Spud rubber washer
- 11 Spud escutcheon



- 12 Stop valve cap
- 13 Plastic crown nut
- 14 Stop valve bonnet
- 15 Stop valve repair kit
- 16 Vandal resistant stop cap
- 17 Stop valve assembly
- 18 Stop valve body only
- 19 Sweat solder bushing
- 20 Sleeve tube
- 21 Wall escutcheon and screw
- 22 Sweat solder kit