

# INSTALLATION INSTRUCTIONS

## Roycroft™ One-Piece Toilet

1.28 gpf / 4.8 Lpf - Model# D22010C101



AMERICAN STANDARD

Thank you for selecting DXV by American Standard. To ensure this product is installed properly, please read these instructions carefully before you begin. (Certain installations may require professional help.) Also be sure your installation conforms to local codes.

**⚠ CAUTION: PRODUCT IS FRAGILE. TO AVOID BREAKAGE AND POSSIBLE INJURY HANDLE WITH CARE!**  
NOTE: Pictures may not exactly define contour of china and components.

**ALL INSTALLATION PROCEDURES MUST COMPLY IN STRICT ACCORDANCE WITH APPLICABLE LOCAL PLUMBING AND BUILDING CODES**

### RECOMMENDED TOOLS AND MATERIALS

Most of the procedures require the use of common tools and materials, which are available from hardware and plumbing, supply stores. It is essential that the tools and materials be on hand before work is begun.



Putty Knife



Adjustable Wrench



Sealant



Wax Ring



Gasket



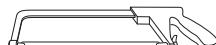
Closet Bolts



Tape Measure



Regular Screwdriver



Hacksaw



Level



Flexible Supply Tube

### 1 REMOVE OLD TOILET

- Close toilet supply valve and flush tank completely. Towel or sponge remaining water from tank and bowl.
  - Disconnect and remove supply line. NOTE: *If replacing valve, first shut off main water supply!*
  - Remove old mounting hardware, remove toilet and plug floor waste opening to prevent escaping sewer gases.
  - Remove closet bolts from flange and clean away old wax, putty, etc. from base area.
- NOTE: Mounting surface must be clean and level **before** new toilet is installed!

### 2 ROUGHING-IN DIMENSIONS:

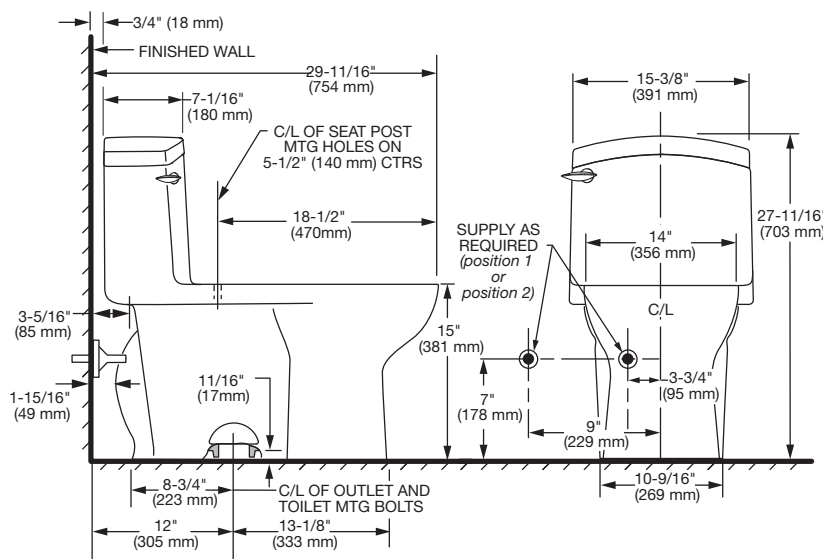
NOTE: Distance from wall to closet flange centerline must be as listed below:

**IMPORTANT:** Water supply on the wall is required at 3-3/4" (95mm) or 9" (299mm) from centerline of the toilet (see rough-in).

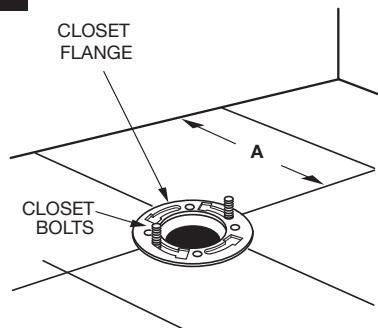
First suggested position is hidden behind the toilet. The geometry of the toilet gives space for this installation.

The second suggested position is next to the toilet. Between these two positions, the space for the supply between wall and toilet is limited to 4-1/8" (105mm). In this case, check your supply and hose dimensions.

### Roycroft™ 1.28 gpf / 4.8 Lpf One-Piece Toilet Model# D22010C101



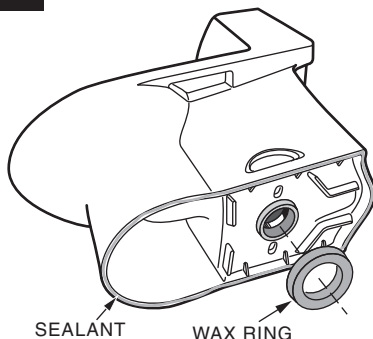
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### INSTALL CLOSET BOLTS

Install closet bolts in flange channel, turn 90°, and slide into place 6" (152mm) apart and parallel to wall.

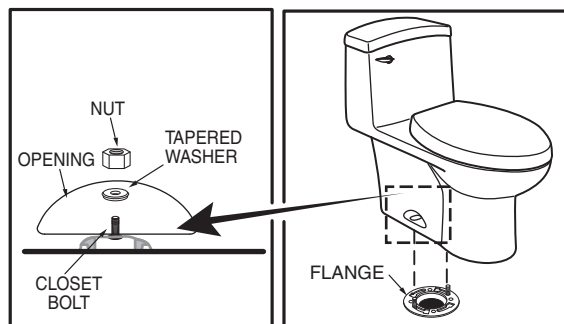
4



### INSTALL WAX SEAL

Invert toilet on floor (cushion to prevent damage), and install wax ring evenly around waste flange (horn), with tapered end of ring facing toilet. Apply a thin bead of sealant around toilet base.

5



### POSITION TOILET ON FLANGE

- Unplug floor waste opening and install toilet on closet flange so bolts project through mounting holes.
- Loosely install retainer washers and nuts. Side of washers marked "THIS SIDE UP" must face up!

6

### INSTALL TOILET

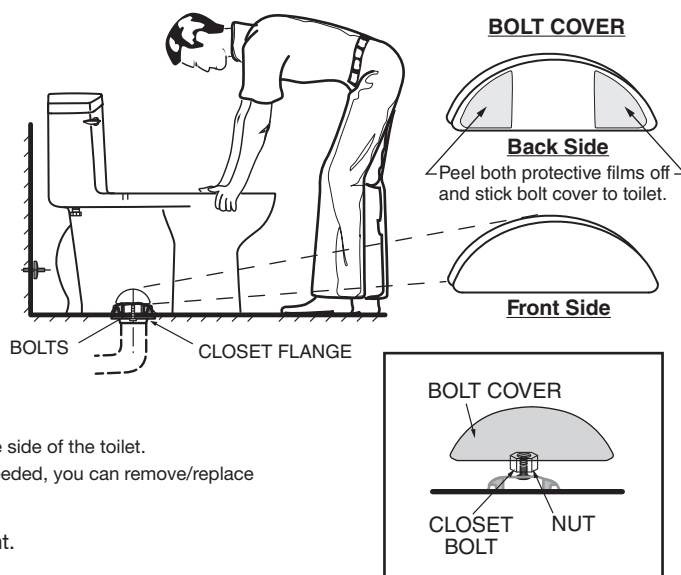
- Position toilet squarely to wall and, with a rocking motion, press bowl down fully on wax ring and flange. Alternately tighten nuts until toilet is firmly seated on floor.

**CAUTION:** DO NOT OVERTIGHTEN NUTS OR BASE MAY BE DAMAGED!

- Install bolt covers:

- Make sure that the bolt cover area on the toilet is clean and dry (see figure). Use a dry piece of cloth or soap and water if needed.
- Take plastic bolt cover and peel the brown protective film off on both ends. The adhesive part is now visible and ready to be placed on the toilet (see figure).
- Gently place the bolt cover on the toilet area (see picture) and if everything is aligned, push bolt cover firmly so it remains in place.
- If not aligned, you can still take it off and put it back so it is aligned.
- Repeat Step 3 for second bolt cover which is to be placed on opposite side of the toilet.
- After 24 hours, the bolt cover adhesive has completely set off and if needed, you can remove/replace as needed. The dual lock technology is now in place.

- Smooth off the bead of sealant around base. Remove excess sealant.



7

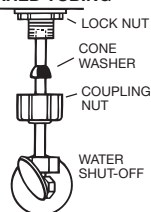
### INSTALL TOILET SEAT

Install toilet seat in accordance with manufacturer's directions.

8a

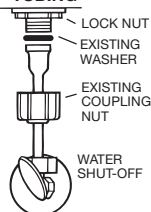
Before continuing, determine the type of water supply connection you have from the chart below and use the appropriate assembly parts required to properly reconnect the water supply. DO NOT use plumber's putty to seal these fittings.

#### METAL/COPPER FLARED TUBING



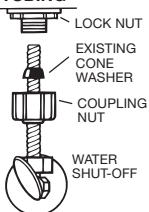
These parts must be used as illustrated to insure water-tight connection. Use of existing coupling nut may result in water leakage. Water supply tube or pipe must extend at least 1/2" (13mm) inside threaded shank of valve (does not apply to flanged tubing).

#### METAL FLANGED TUBING



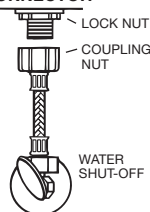
Use existing coupling nut and washer.

#### METAL SPIRAL TUBING



Use existing spiral cone washer. Fluidmaster cone washer may not seal completely on spiral type supply line.

#### VINYL/BRAIDED CONNECTOR

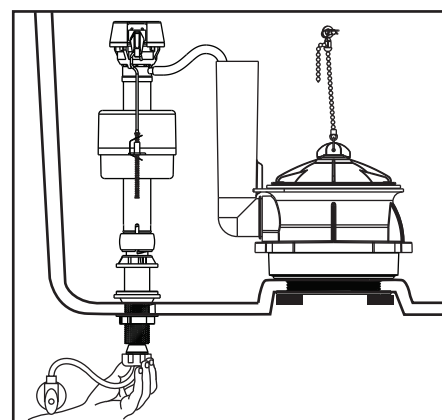


Captive cone washers already included. No additional washers needed.

**CAUTION:** DO NOT USE CONE WASHER WITH PLASTIC SUPPLY LINE.

**CAUTION:** Overtightening of LOCK NUT or COUPLING NUT could result in breakage and potential flooding.

8b



With correct washers in place (see Step 8a), tighten COUPLING NUT 1/4 turn beyond hand tight.

DO NOT OVERTIGHTEN.

9

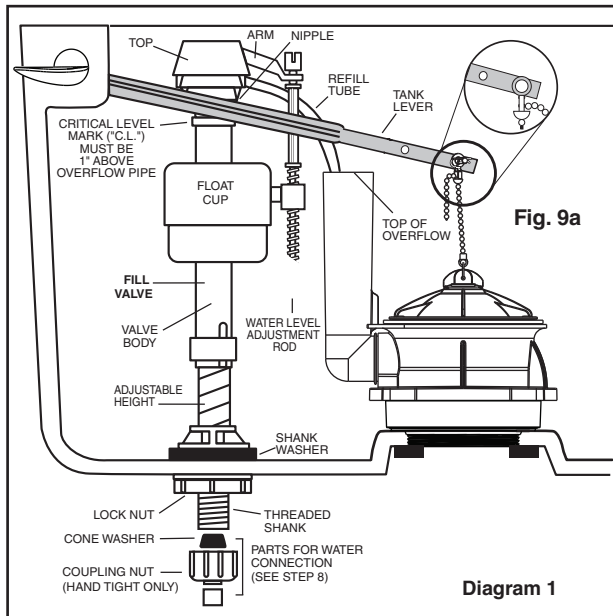


Fig. 9a

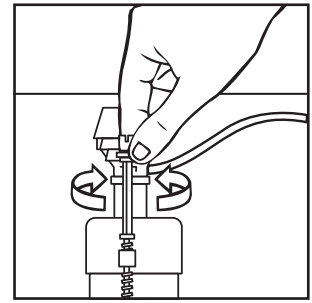
## ADJUSTMENTS

- Adjust water level. Water level should be adjusted to level indicated on tank by adjusting float cup.

See Step 10 for water level adjustment method.

- If bowl fails to siphon, an adjustment may be required with the lift chain. Simply remove the bead chain from the retainment clip (see Fig. 9A) and take up slack on the chain, and reinsert on lift rod. Make sure the chain is not too taut.

10



Turn on water supply. Submerge the FLOAT CUP under the water for 30 seconds. Adjust the water to desired level by turning WATER LEVEL ADJUSTMENT ROD and moving FLOAT CUP up or down.

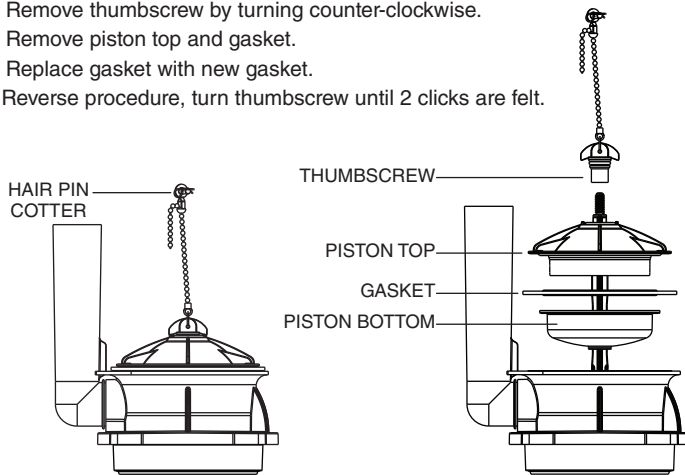
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### TROUBLE SHOOTING FLUSH VALVE SEAL LEAKS:

Lift piston up by pulling up on the lift chain, inspect seal for visible distortion and presence of debris on sealing surface with finger.

### SEAL REPLACEMENT:

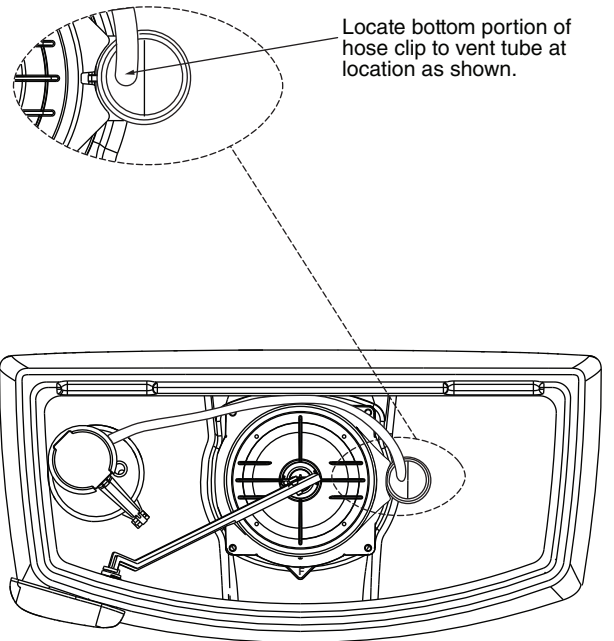
- Turn off water supply and flush toilet to empty tank.
- Disconnect Chain from Trip Lever by removing Hair Pin Cotter and Clevis Pin.
- Partially lift and support piston bottom with one hand.
- Remove thumbscrew by turning counter-clockwise.
- Remove piston top and gasket.
- Replace gasket with new gasket.
- Reverse procedure, turn thumbscrew until 2 clicks are felt.



**NOTE:** DO NOT ADD ANY FOREIGN MATERIALS TO THE SEALING SURFACE.

11a

### REFILL TUBE REPLACEMENT:



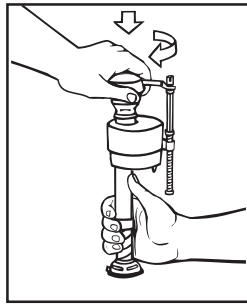
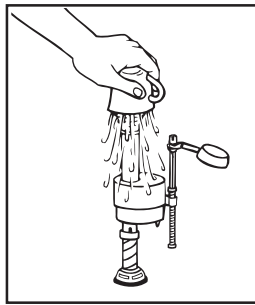
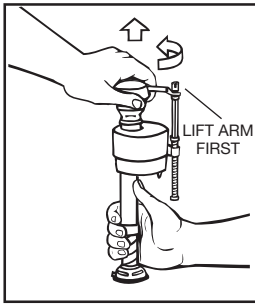
12

## 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 damage 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.



**IMPORTANT: Always clear sand and rust from system.**

- Make sure water supply is off. Remove valve TOP by lifting arm and rotating top and arm 1/8 turn counterclockwise, pressing down slightly on cap.

- While holding a container over the uncapped VALVE to prevent splashing, turn water supply on and off a few times. Leave water supply off.

- Replace TOP by engaging lugs and rotating 1/8 turn clockwise. MAKE CERTAIN TIP IS TURNED TO THE LOCKED POSITION. VALVE MAY NOT TURN ON IF TOP IS NOT FULLY TURNED TO THE LOCKED POSITION.

## TROUBLESHOOTING

**IF FILL VALVE SHUTS OFF BUT CONTINUES TO LEAK SLOWLY**, repeat Step 13.

**IF FILL VALVE TURNS OFF AND ON DURING PERIODS OF NON-USE**, it is a signal you are wasting water because:

- The end of the refill tube is inserted into overflow pipe, below water level in tank. Attach refill tube to overflow pipe using "S" clip provided.
- The flush valve is leaking because it's worn, dirty or misaligned with tank ball or flapper (replace with a new flapper).

**IF FILL VALVE WON'T TURN ON OR SHUT OFF or REFILL OF TANK WATER IS SLOW** after valve has been in use for some time, Fluidmaster Model 242 Replacement Seal may be needed.

Go to our website at [www.fluidmaster.com](http://www.fluidmaster.com) for more solutions to toilet problems.

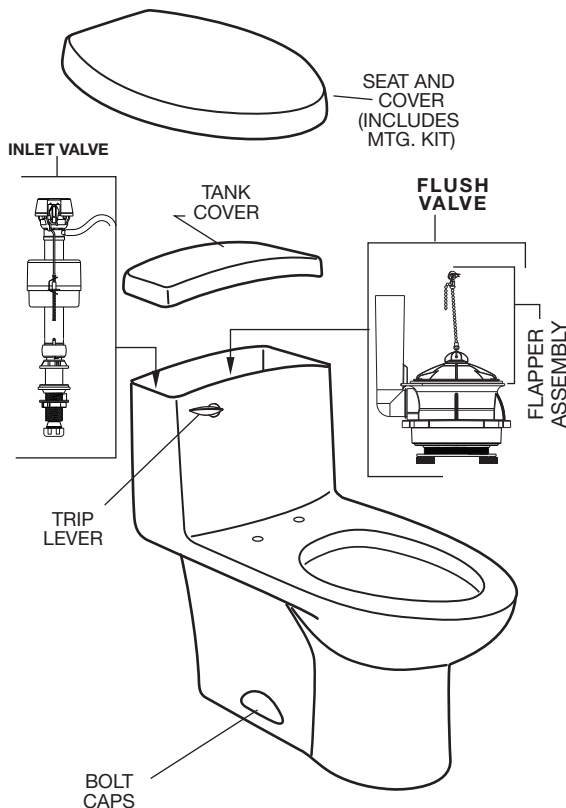
For troubleshooting information please contact:

**FluidmasterInc**

30800 Rancho Viejo Road  
San Juan Capistrano, CA 92675  
(949) 728-2000 (800) 631-2011  
[www.fluidmaster.com](http://www.fluidmaster.com)

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Always use quality Fluidmaster repair parts when maintaining your Fluidmaster products. Fluidmaster shall not be responsible or liable for any damages caused by products used with Fluidmaster valves that were not manufactured by Fluidmaster, Inc.



## PARTS LIST

*NOTE: "XXX" represents color options. Specify when ordering.*

COMPONENT	DESCRIPTION	1.28 GPF ROYCROFT™
735195-400.XXX	Tank Cover	
738797-100.XXX0A	Trip Lever	
7381125-400.0070A	Universal Inlet Valve Assembly	
7301111-0070A	Valve Seal Kit	
3280.140-0070A	Flush Valve Assembly	
7381066-200.0070A	Adapter Assembly	
730835-100.XXX0A	Bolt Cap Kit	
738985-0070A	Bead Clevis Pin Assembly	
5011A.10G.XXX	Contemporary Elongated Seat	
7381062-0070A	Spacer	
7381068-0070A	Gasket	

# **TROUBLESHOOTING GUIDE**

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Does not flush	a. Water supply valve closed.	a. Open valve and allow water to fill tank.
	b. Supply line blocked.	b. Shut off water supply, disconnect supply line and inspect all gaskets and washers. Reassemble. Also, see Fluidmaster maintenance. (see Step 12)
	c. Flush valve chain too loose or disconnected.	c. Readjust chain length as required.
	d. Sand or debris lodged in water control.	d. Shut off water supply. Remove cap and clean as per Step 12.
Poor or sluggish flush	a. Bowl water level too low.	a. Check that refill tube is connected to water control and inserted into tank overflow without being kinked or damaged.
	b. Supply valve partly closed.	b. Open supply valve fully. Be sure that proper supply tube size is used.
	c. Partially clogged trapway and/or drain pipe and/or vent.	c. Remove obstruction. Consult a plumber if necessary.
	d. Supply pressure too low.	d. Normal supply pressure must be at least 20 psi.
	e. Flush valve chain too tight, holding flush valve open.	e. Readjust chain length as needed. Review Step 9A.
Toilet leaks	a. Poor supply line connection.	a. Review Step 8a and 8b of installation procedure.
	b. Poor bowl to tank/floor connection.	b. Review Step 4 through 6 of installation procedure.
Toilet does not shut off	a. Flush valve seal leaking or deformed.	a. Clean debris from seal surface. Replace flush valve seal as needed.
	b. Sand or debris lodged in water control.	b. Shut off water supply. Remove cap and clean as per Step 12.

## **In the United States:**

DXV by American Standard  
One Centennial Avenue  
Piscataway, New Jersey 08855  
Attention: Director of Customer Care

For residents of the United States, warranty information may also be obtained by calling the following toll free number: (800) 227-2734  
[www.DXV.com](http://www.DXV.com)

## **In Canada:**

DXV by American Standard  
5900 Avebury Road  
Mississauga, Ontario  
L5R 3M3  
Canada

Toll Free: 1-800-387-0369  
Local: 905-306-1093  
Fax: 1-800-395-1498  
[www.DXV.ca](http://www.DXV.ca)

## **In Mexico:**

DXV by American Standard  
Via Morelos 330  
Col. Santa Clara Coatitla  
Ecatepec, Estado de México 55540

Toll Free: 01-800-8391200  
[www.DXV.mx](http://www.DXV.mx)