



INSTALLATION INSTRUCTIONS GRAVITY DUAL FLUSH TOILETS

ATTENTION INSTALLER: PLEASE LEAVE THESE INSTRUCTIONS WITH THE CONSUMER

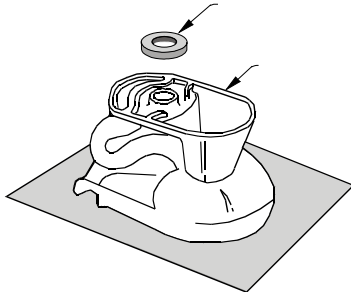
Thank you for selecting Crane Plumbing Products. To ensure this product installs properly, please read these instructions carefully before you begin. Be sure your installation conforms to local codes.

REMOVE OLD TOILET: Close toilet supply valve and flush the toilet. Sponge any remaining water from the bowl. Disconnect and remove supply line. If replacing valve, first shut off the main water supply. Remove mounting bolts and lift bowl off toilet flange. Plug waste opening to prevent sewer gas from escaping. Clean away old wax, etc. from installation area.

Before Beginning: The toilet is in two cartons. One contains the bowl, and the other has the tank, cover and assorted parts. **Assuming** that your bathroom has a four inch drain with a slotted toilet flange and cold water supply line in place, to complete your installation you will need the following items, not supplied: two closet bolts, wax ring or bowl gasket, supply pipe and shut off valve, toilet stop. **A Word of Caution:** The new toilet is made of fine china like the best quality tableware. It is ruggedly constructed: however extra care should be exercised during installation when rough handling and the danger of dropped tools threaten to chip or crack it. **Water Supply:** If your cold water line is through the wall, install an Angle Stop. If it is through the floor, install a Straight Stop.

Installing the Toilet Bowl and Tank

1



Clean the immediate floor area thoroughly. Insert new toilet bolts in the slotted flange, bolt heads down. The toilet bowl should be placed upside down, on soft material to prevent scratching. Place the slightly warmed wax ring in the circular recess in the base of the bowl.

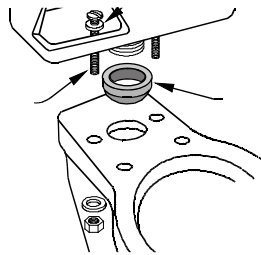
2



Unplug floor waste opening. Gently place the bowl, right side up, in position with the toilet mounting bolts protruding through the holes in the china base. Press down, with a slight twisting motion, on the top center, with your full weight. Make sure the bowl is as level as possible. If needed, you can use wedges under the bowl to help leveling. Put the washers (Marked: This Side Up) and nuts on the bolts. Tighten them evenly and snugly.

DO NOT OVERTIGHTEN NUTS, AS VITREOUS CHINA EASILY CHIPS AND CRACKS. Pour water into the bowl to prevent the escape of sewer gas.

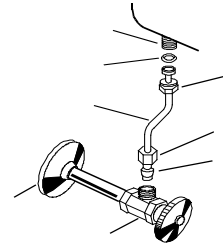
3



The tank should be inverted on the floor after removing the lid and parts bag. Open the plastic envelope and place the large doughnut shaped washer snugly on the threaded tank outlet. Invert the tank and place it on the bowl so that the large washer fits evenly into the bowl water inlet opening. Make sure tank is centered and properly sealed. Place the rubber washer on the bolts and insert the bolts downward through the bolt holes. Position the metal washer on each bolt. With tank parallel to wall, alternately finger tighten nuts. Using a Wrench, alternately turn the nuts until the tank is in contact with the bowl piers.

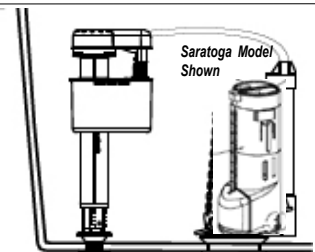
CAUTION: Do Not Overtighten to avoid cracking china.

4



Connect the cold water line to the tank with your straight or angle stop. Place the washer, then the plastic nut on the tank end of the connecting pipe and bend the pipe to fit into the inlet hole on the water regulator. Tighten all coupling nuts securely. **DO NOT USE PLUMBERS PUTTY!**

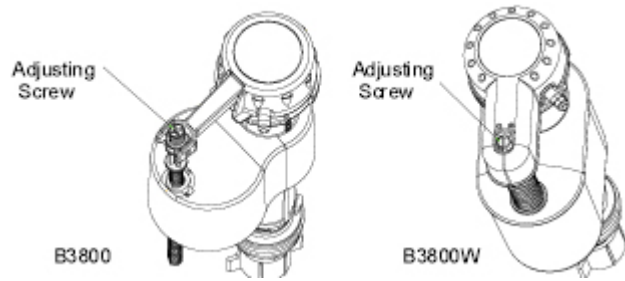
5



Connect the plastic tubing from the top of the water inlet regulator into its holding ring inside the overflow tube. If necessary, excess may be trimmed to eliminate any kinking of the line.

NOTE: Check all connections for several days to detect any leaks which may develop. If they do, tighten all connections per instructions. Crane Plumbing, LLC is not responsible for leaking water connections. Also, after several days, remove the bolt caps from the bowl and tighten the nuts snugly.

6 Adjusting Tank Water Level



NOTE: The Pilot valve in this toilet is designed to operate at a minimum of 20psi and a maximum of 80psi. Turn on the water supply by opening the angle or straight stop. For proper flushing the tank must fill to the Water Line marked on the inside of the tank. If the water is Below the Water Line mark, turn the screw clockwise, and if the water level is Above the Water Line mark, turn the screw counterclockwise.

7

Place the cover on the tank. Place the plastic bolt covers firmly in place. Install the toilet seat in accordance with the manufacturers instructions.

8 Care and Cleaning of Vitreous China

Your new toilet is made of stain, acid and abrasion resistant vitreous china. But, like all fine finishes the china requires reasonable care. For day-to-day cleaning, wash with warm water, a soft cloth, and a mild detergent such as Handy Andy, Mr Clean or Lestoil. On stubborn stains, use one of the powdered detergents such as Spic & Span, on a damp sponge or scouring pad of nylon, saran, or polyethylene. Never use abrasive scouring powders, cleansers, or pads as they tend to create microgrooves that dull the finish and allow dirt to work into the surface. Use of tank cleaning products containing calcium hypo chlorite (chlorine) or any other reactive chemical shall constitute improper maintenance.

9 Winterizing Vitreous China Water Closets

ALL WATER MUST BE REMOVED FROM THE TANK AND BOWL

An anti-freeze solution must be poured into the bowl through the tank flush valve opening inside the tank to insure mixing with any water that may remain in the distribution area under the tank. Continue to pour anti-freeze solution until the level of solution in the toilet bowl stops increasing. There must be liquid in the bowl at all times to prevent sewer gas from coming through the toilet.

NOTE: It is recommended that RV Anti-freeze be used.

Tank	Fill Valve	Flush Valve	Actuator	Parts Bag	Liner	Lock Down Kit
31590	P030177	P030901	P030950	P030483		
31590TP	P030177	P030901	P030950	P030483		P030564
31593	P030177	P030900	P030950	P030483	P030147	
31593TP	P030177	P030900	P030950	P030483	P030147	P030564
31960	P030177	P030732	P030328	P030483		
31964	P030176	P030730	P030328	P030483		
31964TP	P030176	P030730	P030328	P030483		P030564
31966	P030747	P030731	P030328	P030483	P030158	
31966TP	P030747	P030731	P030328	P030483	P030158	P030564

Limited Lifetime Warranty on China / Limited One Year Warranty on Parts

Subject to the "Exclusions" set forth below, Crane Plumbing L.L.C. promises to the consumer to repair, or at the option of Crane Plumbing L.L.C., to replace any part of this plumbing product made from vitreous china which proves to be defective in workmanship or materials under normal use, and any other supplied part of this product under normal use for one year from the date of purchase. All costs of removal, transportation and reinstallation to obtain warranty service shall be paid by the consumer. During the warranty period for china and one year period for parts, Crane Plumbing L.L.C. will provide, subject to the "Exclusions" section set forth below, all parts free of charge, necessary to correct such defects if this plumbing product has been installed and maintained in accordance with written instructions furnished by Crane Plumbing L.L.C. with this plumbing product. Exclusions: CRANE PLUMBING L.L.C. PRODUCTS SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING COSTS OF INSTALLATION OR WATER DAMAGE, OR FOR DAMAGES RESULTING FROM ABUSE OR MISUSE OR FROM FAILURE TO INSTALL OR MAINTAIN THIS PLUMBING PRODUCT IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS FURNISHED BY CRANE PLUMBING L.L.C. PRODUCTS. USE OF CLEANING PRODUCTS CONTAINING CALCIUM HYPO CHLORITE (CHLORINE) SHALL CONSTITUTE IMPROPER MAINTENANCE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO THE CONSUMER. THE ONLY WARRANTY MADE BY CRANE PLUMBING L.L.C. PRODUCTS IS SET FORTH ABOVE AND ALL IMPLIED WARRANTIES WHICH MIGHT ARISE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED. Warranty Service: In order to obtain warranty service or adjustments, contact the builder, dealer or plumber from whom the product was purchased, or the Customer Service Department. U.S.A. customers contact: Crane Plumbing L.L.C. Products, 41 Cairns Road, Mansfield, OH. 44903- 8992. Phone: (800) 546-5476. Fax: (419) 525-3169. CANADIAN customers contact: Crane Plumbing Canada Corp. 15 Crane Ave. P.O. Box 337, Stratford, ON. N5A 6T3 Phone: (800) 463-2726. Fax: (800) 845-7158. In obtaining warranty service, all transportation, shipping and freight charges connected with transporting any part of this plumbing product must be prepaid by the consumer. It is the responsibility of the consumer to establish the warranty period by verifying the original purchase date. A bill of sale, cancelled check or some other appropriate payment record may be kept for this purpose. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Please enter the model number and date of purchase in the space provided:

BOWL MODEL # _____ TANK MODEL # _____ DATE OF PURCHASE _____

REPLACEMENT PARTS

Please keep this manual for future reference. Retain product invoice in case warranty service becomes necessary. Record the Model Number of the toilet in this booklet. This will assist when ordering replacement parts, or in seeking technical assistance. Technical Assistance or Replacement Parts may be obtained by contacting:

U.S.A. Customers Contact:
Crane Plumbing LLC.
41 Cairns Road,
Mansfield Ohio. 44903-8992
Phone: (800) 546-5476
Fax: (419) 525-3169
email: customerservice@cranep plumbing.com

CANADIAN Customers Contact:
Crane Plumbing Canada Corp.
15 Crane Ave. P.O. Box 337
Stratford, ON. N5A 6T3
Phone: (800) 463-2726
Fax: (800) 845-7158
email: customerservice@cranep plumbing.ca

