

Dometic 300 Toilet Repair Process

This process document corresponds to the YouTube video on [Dometic 300 Toilet Repair](#). Please watch this video to gain a visual understanding of the process. If this process is of value, we appreciate it if you would consider supporting the channel by starting your online shopping from our [Amazon Store](#).

Here are the tools and supplies I used to complete the project:

Tools & Supplies*

- [Endoscope](#) (used for visual inspection)
- Flathead screwdriver
- Phillips head screwdriver
- Extra-long flathead screwdriver
- Medium size vise grips
- 11 mm wrench
- Waterproof silicone caulk
- Disposable gloves
- Cleaning rags
- Disinfecting wipes
- Heavy-duty trash bag
- Large cardboard box

Here is the process I used, beginning with removing the toilet from the RV.

Toilet Removal

1. Turn off the water supply.
2. Remove and drain the water supply line.
3. Remove the toilet bolt covers/nuts and washers.
4. Remove the toilet from the floor.
5. Empty liquids from the outer toilet bowl into a bucket.
6. Clean the toilet, including flushing out the outer bowl.
7. Clean the floor flange and the floor.
8. Place toilet in a large trash bag for transportation.
9. Move the toilet outside of the trailer.

Toilet Repair

1. Place the toilet upside down on a large piece of cardboard to prevent it from being scratched.
2. Use the extra-long flathead screwdriver to remove the four screws attaching the base of the toilet.
3. Carefully set the base aside, remembering that the base and bowl remain attached by the water hose.
4. Use the Phillips head screwdriver to remove the five screws attaching the outer bowl to the inner bowl.
5. Detach the two bowls. Note that it helps to start at the back where there is a gap to separate them.

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6. Place the outer bowl aside along with the base seal.
7. Carefully clean both the inner and out bowls along with the base seal.
8. On the inner bowl, remove the seal rings.
9. Clean the seal rings and ensure that they are dry.
10. Place the first seal ring back on the inner bowl.
11. Apply a generous amount of waterproof silicone caulk around the first seal ring.
12. Place the second seal ring back on top of the first seal ring on the inner bowl.
13. Apply a generous amount of waterproof silicone caulk around the second seal ring.
14. Carefully place the outer bowl back on the inner bowl, lightly pressing down until they snap into place. Note that we had difficulty getting the two bowls to match up due to the way they were originally attached.
15. Reattach the two bowls using the 5 Phillips head screws.
16. Place the base seal back on the outer bowl. We did not apply silicone caulk to this seal since it had never been a problem.
17. Place the base back on the outer bowl.
18. Reattach the base using the four flathead screws and your extra-long screwdriver. Make sure it is tight but not over-tightened.

Now that the toilet should be repaired, we can begin the reinstallation process:

Toilet Installation

1. Insert T-bolts back into the slots (if they have become detached).
2. Verify that the floor flange seal is installed on the base of the toilet.
3. Place the toilet over the flange, aligned with the T-bolts.
4. Install washers and nuts on the T-bolts and torque to 30-40 inch-pounds, alternating between sides – do not over tighten.
5. Attach the bolt covers onto the nuts.
6. Connect the water supply line and torque to 30-40 inch-pounds.
7. Turn on the water supply.
8. Flush toilet several times, checking for leaks.

Hypothesis

It appears that the problem may be caused by weight being added to or removed from the toilet seat. When you sit on the toilet seat, pressure is applied compressing the two round seals. When this compression is released, a vacuum occurs which sucks liquid from the inner to the outer bowl. The two small seal rings do not correctly prevent this vacuum from occurring. The fact that the two bowls were not properly seated at the front of our latest toilet may have caused this issue to happen even quicker. Applying silicone caulk helps create a better seal, hopefully preventing this vacuum process from taking place.

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