# Owner's Manual BTS 33 NE Waterless Toilet

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## **Specifications**

#### Capacity

- 4 people full-time use
- 6 people part-time use

Increase capacity by adding optional bins. Each bin increases capacity by 2 - 3 people

#### Weight Limit

350 lb

#### Measurements and Weight

	Shipping	Installed
Depth	31.5"	26.5"
Width	19.25"	15.5"
Height	29"	24.75"
Seat Height		19.25"
Weight	63 lb	25.5 lbs

### Introduction

Thank you for your purchase of an BTS 33 Toilet system. With proper installation and maintenance we are certain it will offer you the convenience and reliability you would expect from the manufacturer of the best selling composting toilet in the world. **Please, read these instructions carefully**, as they will give you vital information about installing and maintaining your BTS 33.

\*\*\* Please remember: State and Local regulations always supersede instructions in this manual. Always check with your local health authorities and building inspectors for regulations governing composting toilets prior to installation of your BTS 33. \*\*\*

## Description

The BTS 33 is a biological composting toilet that uses the process of aerobic decomposition to transform human waste and toilet paper to a hygienically safe product (humus) that may be safely utilized if disposed of in a manner described in this manual or by your local health authorities.

Due to the absence of electricity, the BTS 33 does not have a heat source to aid in the evaporation process. Therefore, a drain tube MUST be installed to evacuate excess liquid. This liquid should be disposed of in a manner described in this manual or by your local health authorities.

## Package Contents

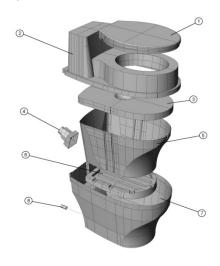
#### Toilet:

1 – BTS 33 Toilet	1 – Hardware Kit "A"
1 – 8 gallon bag Starter Mulch	$2 - \frac{3}{4}$ " #8 – 32 screws
2 – Compost bins	2 – #8 nuts
1 – Compost Bin Lid	4 – stainless/rubber bonded washer
1 – Compost Bin Tray	4 – 1 ½" #10 machine screws
1 – Fan housing	1 – 1" hose clamp
1 – 1" x 5' drain hose	· ·

#### Vent Kit:

6 – 26 1/4" sections 2" white pipe	2 – 26 1/4" sections foam insulation
2 – 26 1/4" sections 4" black pipe	1 – 2" x 2" shielded rubber coupler
1 – 2" x 45 degree street elbow	2 – 2" x 45 degree standard elbow
5 – 2" x 2" PVC coupler	1 – 4" x 2" rubber reducing coupler
1 – 4" x 4" PVC coupler	1 – 4" roof flashing

#### **Toilet Components**



- 1. Seat assembly
- 2. Top Part
- 3. Compost Bin Lid
- 4. Fan Housing
- Compost Bin
- 6. Compost Bin Trav
- 7. Toilet Base
- 8. Drain Nipple

## Installation

#### **Tools Required**

- 5/16" nut driver or socket
- Phillips screwdriver
- Drill
- 2 1/2" hole saw
- 1 1/4" drill bit/hole saw
- Jig saw, sawzall, or keyhole saw
- Hammer

- · Roofing nails
- 100% adhesive silicon caulking (do not use latex silicon)
- Plum bob or weighted string
- Pencil
- PVC pipe cleaner and glue.

#### **Precautions**

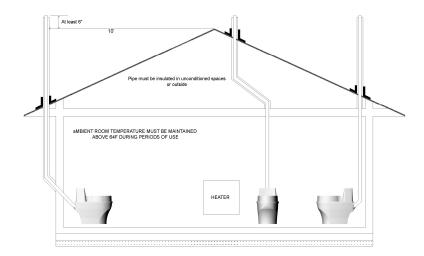
- Always wear goggles and protective clothing while operating hand and power tools.
- Observe all precautions and operating instructions provided by the tool manufacturer.
- Ensure there are no electrical wires, water pipes or gas pipes in the area you are cutting or drilling

#### Before installing your BTS 33

- Check with your local health authorities and building inspector for regulations governing the installation of your BTS 33
- Ensure there is generous air flow into the bathroom. A 1" gap under the bathroom door or a vent in the wall will ensure sufficient airflow to the toilet. Overhead vents and open windows should be used with caution as these may cause a negative pressure in the room and promote a back draft into the room through the toilet causing the presence of an unpleasant odor.
- Ensure the temperature in the room where the toilet is to be installed can be maintained above 64°F during periods while the toilet is being used.
- Ensure the floor under the toilet is level and insulated or heated.
- Ensure the vent pipe will be able to extend at least 6" above anything within 10' of it or above the peak of the roof whenever possible. (See the "Installation" and "Theory of composting toilets; maintaining aeration" sections below)
- Ensure your installation can be achieved with the addition of no more than 2 45° angles.
- Verify that the total run for the vent pipe is less than 30' in a straight up installation or 27' if 2 45° angles are required. Consult with BioLet Toilet Systems technical support if a longer run is required.

#### \*\*\*\*IMPORTANT\*\*\*\*

Installation of the vent pipe is <u>CRITICAL</u> to the operation of your BTS 33 Toilet System. If you must vary the installation from these instructions in <u>ANY WAY</u>, please contact technical support at 1-800-524-6538 <u>PRIOR</u> to installation.



# Straight run through ceiling and roof

- 1. Remove top of unit by lifting straight up
- 2. Remove bins from inside of unit
- 3. Separate bin by gently pulling up on bin lid handle while holding bottom bin firmly.
- 4. Insert fan housing in back of unit as shown in Fig. 1
- 5. Use  $2 \frac{3}{4}$ " #8 32 screws and 2 #8 nuts to secure the fan housing to the base.
- Slide 2" x 2" shielded rubber coupler over vent fan housing nipple with screws facing downward. Tighten clamp using 5/16" nut driver or socket until snug. (CAUTION: DO NOT OVER TIGHTEN)
- Insert male end of 2" x 45 degree street elbow into rubber coupler with the female end facing upward. Assembly should now look like fig. 2.
- 8. Place toilet in desired location and position
- Using plumb bob or weighted string mark position on ceiling directly above the center of the vent pipe.
- Ensure point marked on ceiling is not directly below a ceiling joist, wiring, pipe, or other obstruction that will prevent the pipe from running upward.
- 11. Determine how and where you are going to run the drainage tube using the "Drainage Recommendations" section as a guide.

#### \*\*\*IMPORTANT\*\*\*

Ensure placement of the drain tube allows for a constant downward slope to promote proper flow of the liquids. Ensure drain tube does not kink wherever bends are necessary.

- 12. Mark position on wall or floor where drain tube will penetrate.
- 13. Ensure position marked is not directly in line with joists, studs, wires, pipes or other obstructions that will prevent the drain tube from running through the wall or floor.

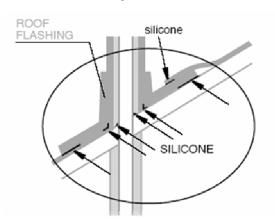


Fig 1



Fig 2

- 14. Drill a 1 1/4" hole in the floor or wall to accommodate the drain tube.
- 15. Drill a 2 1/2" hole in the ceiling where you made a mark in Step 8.
- Drill a 2 1/2" hole in the roof directly above the hole in the ceiling.
- 17. Glue 1 length of 2" white pipe into the female end of 2" x 45 degree street elbow attached to the back of the toilet using PVC glue (ensure you follow all precautions and directions on glue and cleaner)
- 18. Glue 2" x 2" PVC coupler to other end of 2" white pipe on back of toilet.
- Repeat steps 17 and 18 until white pipe extends through the roof and at least 6" above anything within 10' of it.
- Seal the hole in the roof around the pipe using silicon caulk.
- 21. Cut 1 end of foam insulation to angle of roof
- 22. Cut total length of insulation so it's 2" shorter than the length of white pipe sticking through the roof
- 23. Wrap insulation around white pipe above roof so all but the top 2" of the pipe is covered with insulation.
- 24. Tape all seams in the insulation.
- Cut 1 end of 4" black pipe to the angle of the roof.
- 26. Cut total length of 4" black pipe so it is 2" shorter than the 2" white pipe sticking out of the roof.
- Slide 4" black pipe down over the white pipe and insulation
- 28. Slide roof flashing over 4" black pipe with domed side upward. (note this will be a tight fit!)
- 29. Slide 2" x 4" rubber coupler over 4" black pipe and 2" white pipe till 2" white pipe is flush with top of 2" opening. Tighten 2" and 4" clamps using 5/16" nut driver or socket.
- 30. Slide roof flashing down so it lies evenly on the roof, slipping its flanges under the shingles along the top edge.
- 31. Outline the flashing on the roof.



- 32. Raise the flashing and apply silicone sealant inside the outline. Slide the flashing back down, sliding the flange under the shingles along the top edge and press it firmly into the sealant. When the flashing is properly placed the top part of the flashing should be under the shingles and the lower portion should be on top so water sheds easily.
- Secure the flashing with corrosion resistant nails or staples at each corner and along the sides at 4" – 6" intervals.
- 34. Exposed nails or staples should be sealed with silicone sealant.
- 35. Install the drainage tube attaching it to the drain nipple on the back of the toilet using the 1" hose clamp provided in Hardware Kit "A" and run it through the hole you drilled in step 13
- Attach toilet to floor using 4 #10 1 ½" machine screws with 4 #10 stainless/rubber bonded washers RUBBER SIDE DOWN.
- 37. Remove compost bin tray from box labeled "Parts Box" and place the bin tray in the bottom of the unit with the ridge side up.
- Place 1 compost bin in toilet so depressions on bottom of bin matches up with the "nipples" on the bin tray.
- 39. Replace top of toilet

#### \*\*\* IMPORTANT \*\*\*

Wherever the ventilation pipe passes through an unconditioned area (i.e. attic space) or outside it needs to be insulated. Use the remaining insulation from your vent kit to insulate the pipe in the unconditioned space. Ensure every inch of pipe is insulated in this space

A rain cap is not necessary. If one is desired, use ONLY the BioLet authorized wind directional cap that can be obtained from BioLet Toilet Systems. Any other cap may hinder the airflow from the toilet and cause a reduction in the performance of the unit.

## Through the exterior wall using 45° elbows.

#### \*\*\* IMPORTANT \*\*\*

Pipe will need to pass through the wall at a 45 degree angle.

#### AT NO TIME CAN THE PIPE RUN AT MORE THAN 45 DEGREES OFF VERTICAL!

- 1. Remove top of unit by lifting straight up
- 2. Remove bins from inside of unit
- 3. Separate bin by gently pulling up on bin lid handle while holding bottom bin firmly.
- Insert fan housing in back of unit as shown in Fig. 1
- 5. Use  $2 \frac{3}{4}$ " #8 32 screws and 2 #8 nuts to secure the fan housing to the base.
- Slide 2" x 2" shielded rubber coupler over vent fan housing nipple with screws facing downward. Tighten clamp using 5/16" nut driver or socket until snug. (CAUTION: DO NOT OVER TIGHTEN)
- Mark position on wall behind toilet where pipe will penetrate through interior wall
- 8. Ensure position marked is not directly in line with studs, wires, pipes or other obstructions that will prevent the vent pipe from running through the wall. Remember the pipe will be running through the wall at an upward 45 degree angle. Ensure there are no obstruction on the outside of the wall where the pipe will exit.
- 9. Drill a 2 ½" hole through the wall at an upward 45 degree angle
- 10. Determine how and where you are going to run the drainage tube using the "Drainage Recommendations" section as a guide.

#### \*\*\*IMPORTANT\*\*\*

Ensure placement of the drain tube allows for a constant downward slope to promote proper flow of the liquids. Ensure drain tube does not kink wherever bends are necessary.

- 11. Mark position on wall or floor where drain tube will penetrate.
- 12. Ensure position marked is not directly in line with joists, studs, wires, pipes or other obstructions that will prevent the drain tube from running through the wall or floor.
- 13. Drill a 1 1/4" hole in the floor or wall to accommodate the drain tube.
- 14. Pass a 2" white pipe through the wall and into the 2" rubber coupler. Ensure the pipe is fully insulated in the wall.
- 15. Tighten clamp on rubber coupler using 5/16" nut driver or socket until snug.
- 16. Cut 2" white pipe extending through the wall to desired length.

- 17. Glue 45 degree elbow to end of 2" white pipe extending through wall with open end facing upward.
- 18. Glue next 2" white pipe into open end of 45 degree elbow.
- 19. Follow steps 18 39 in instructions on page 6

## Starting the toilet

- Insert the composting bin inside the toilet with the curved end facing forward.
- 2. Open the included 8-gallon bag of starter mulch and add about 1 quart of water to it. (just enough to keep the mulch from dusting)
- 3. Mix the water with the mulch to evenly distribute it throughout the bag.
- 4. Place approximately 2" of starter mulch into the bin.
- 5. Replace the top on the toilet.
- 6. Your BTS 33 is now ready to use

## <u>Drainage recommendations</u>

## **ALTERNATIVE 1** (soil with good permeability) Drain tube Soil 2" Cover Alternative 3 **ALTERNATIVE 2** (rocks, too little soil, (too little soil or no high ground water level) permeability) When filled, remove and empty into an approved waste treatment 2 1/2 ft Stone system. 5 gallon translucent EXCESS LIQUID container

The drainage system to be chosen depends entirely on the soil condition, ground water level and local regulations. Always consult your local health authorities before installing your drainage system.

## Theory of composting toilets

There are 4 factors that affect the efficiency of a composting toilet:

#### **Moisture**

In optimum conditions, the composting material has the consistency of a well-wrung sponge – about 45% to 70% moisture. When below 45%, there is not sufficient moisture for the microorganisms to function, and above 70%, saturated conditions begin to develop, and oxygen depletion becomes a limiting factor.

#### Maintaining moisture

Since the BTS 33 does not have a heater, the moisture content needs to be maintained by proper ventilation, addition of proper mulch, and a good flow from the drain tube.

#### **Temperature**

The typical temperature range for most composting toilets is 68°F to 112°F. Lower temperatures result in a moldering process that takes a significantly longer period of time to compost and therefore requires a much larger composting chamber.

#### Maintaining temperature

Since the BTS 33 does not have a heater, the temperature needs to be maintained by maintaining ambient room temperature and by the natural heat generated during the composting process. Therefore, ambient room temperature of at least 64°F needs to be maintained during periods while the toilet is being used.

#### **Aeration**

The aerobic organisms responsible for the composting process require free atmospheric or molecular oxygen to survive. Without oxygen, they will die and be replaced by anaerobic microorganisms that will slow the composting process and generate odors. For composting toilets to work most effectively, the materials being composted should be unsaturated with liquids, and have a loose texture to allow air to circulate freely within the pile.

#### Maintaining aeration

Since the BTS 33 does not have a ventilation fan, maximum aeration can be achieved by:

- 1. Keeping the product inside the composting chamber in a loamy consistency.
- 2. Proper installation of the ventilation pipe. Keep in mind that the addition of any angles in the vent pipe will reduce the airflow.

- 3. Ensure a good flow of air to the bathroom from the living area.
- Addition of an auxiliary 12VDC or 115VAC ventilation fan that can be ordered from BioLet Toilet Systems or your local authorized dealer.

#### Carbon to Nitrogen ratio (C:N)

Microorganisms require digestible carbon as an energy source for growth, and nitrogen and other nutrients for protein synthesis. When measured on a dry weight basis, an optimum C:N ratio for aerobic bacteria is about 25:1.

#### Maintaining C:N

A small handful of starter mulch per person per day or approximately 1 quart per person every week is a good rule of thumb to maintain a helpful C:N ratio, absorb excess moisture, and maintain pores in the composting material.

## **Use and Care**

To ensure that your BTS 33 will operate at its peak potential and that the end product (called Humus) will be hygienically safe to handle and to recycle on your property, pay close attention to the following directions.

#### **Precautions**

- Always observe good biohazard safety practices when working on the BTS 33.
   Wear goggles, disposable rubber gloves and clothing to prevent contact with unprocessed human excrement. Unprocessed human excrement contains potentially dangerous human pathogens, which may cause illness.
- NEVER put cigarettes or other burning or glowing materials into your BTS 33!
- Do not put sanitary napkins, food scraps, or animal excrement in your BTS 33. Your BTS 33 is intended for the disposal of human urine, fecal matter and toilet paper ONLY. Introduction of other materials may hinder the composting process or decrease the capacity of your toilet

#### Adding starter mulch

It is very important to add starter mulch to your toilet on a regular basis in order to promote aeration, add carbon and to improve the compost's ability to absorb liquid. During regular operation add a minimum of 1 quart of starter mulch per week per person. Therefore, one should make it a habit to add about 1/2 cup of starter material after each fecal use.

#### Approved mulches

Use of only BioLet Toilet Systems approved starter mulches is recommended. Approved

mulches will carry the BioLet Toilet Systems logo. Using any other mulch may cause a decrease in the efficiency of your toilet and may void the warranty on parts if their failure is determined to be caused by usage of unapproved mulch.

#### Homemade mulch

If you desire to make your own mulch you can use the following recipe for 10 gallons of starter mulch:

- 6 ½ gal Blond high fibrous, Canadian sphagnum peat moss (ALL PEAT MOSS IS NOT THE SAME)
- 3 ½ gal Pine wood shavings (obtainable from nearly any livestock feed store as livestock bedding) DO NOT USE SAWDUST OR CHAINSAW CHIPS
- 2 cups Good rich garden soil from first 6" layer of soil (ENSURE FROM AN AREA WHERE PESTICIDES ARE NOT USED)
- 1 pound Dry molasses.
- 1 pound Hulls of buckwheat, wheat, peanuts or cocoa.
- 1 pound Coarse Perlite

Keep your mixture dry and allow it to breathe. Except for when starting your BTS 33, do not dampen. The mulch will mix in and dampen with bathroom use.

#### \*\*\* IMPORTANT \*\*\*

BioLet Toilet Systems cannot guarantee the operation of your unit unless you are using approved mulch.

#### **Emptying the Compost Bin**

In a full-time residential setting, the compost bin should be emptied when the bin is about 3/4 the way full or once every 6 months, whichever comes first. In a part-time cabin/cottage setting, the compost bin should be emptied when the bin is about 3/4 the way full or once a year whichever comes first.

- 1. Remove the top of the toilet by lifting straight up.
- Position the compost bin lid on top of the compost bin and press down firmly on the outer edges to lock the handle in place.
- Rotate handle forward and backward a couple of times to ensure locking.
- Slowly lift on handle until you are sure it is properly locked in place.
- Remove the primary bin and move it outside to finish composting.
- 6. Place the secondary bin into the unit with the curved end facing the front of the unit.
- 7. Pour in enough Starter Mulch to make a 2" covering inside the bin.
- 8. Replace the top of the unit, ensuring it is evenly sitting on the base.

If the secondary bin contains humus, dispose of it by adding it to an existing outside compost pile for finishing or when an existing compost pile is not available, by mixing it with soil or compost and trench it in around ornamental trees and plants and cover it with a minimum of 5" topsoil, or dispose of it in a manner approved by your local health authorities.

#### Shutting down your toilet

If your BTS 33 is going to be idle and not used for periods of two days or more:

Add about one quart of humus starter per week that you will be away or one gallon (whichever is less) and mix it well into the compost.

When you are ready to use the toilet again:

- Visually inspect the material inside to ensure it is moist.
- If necessary add enough water to moisten the material.
- Mix the material.

#### In case of paper build up

If a build-up of toilet paper occurs, sprinkle a small amount of water over it to make it dissolve and mix into the compost.

#### Cleaning

Use a sponge or sponge style toilet brush and liquid soap or some other mild detergent when cleaning your BTS 33. Never use scouring powder or other strong detergent that could scratch the surface.

#### Insect control

The presence of insects in and around your BTS 33 is frequently an indication of excess moisture. If there is excess moisture you will need to remedy this situation to be able to completely remove the insects from your toilet. Use of mulch not authorized for use in your BTS 33 may also introduce insect larvae into your toilet.

To rid your toilet of insects: Insert a Hot-Shot No Pest Strip (blue and white envelope type package), Spectracide Bug Stop Pest Strip (green and yellow envelope type package) or similar product containing Dichlorvos as the ONLY active ingredient inside the unit but outside the compost bin. These items are readily available at your local hardware store or department store in their garden centers.

## Helpful hints

 Keep a small <u>sealed</u> container, with starter mulch and a ½ cup measurer in it, next to the toilet for convenience of adding mulch after each fecal use.  Hang a sign above the toilet, for the convenience of guests, that states 'To "flush": Add ½ cup starter mulch after each fecal use.'

## **Troubleshooting**

#### Odors in bathroom

If you detect a pungent or ammonia odor in your bathroom there is a possibility of insufficient airflow from your toilet. Please check the following:

- All vent pipe connections airtight?
- Is the vent pipe <u>inside</u> the rubber connector on the back of the toilet?
- Vent pipe ends at least 6" above anything within 10' (see "Installation")?
- Vent pipe unobstructed?
- Is the vent pipe insulated in all unconditional (i.e. attic) areas?
- If there is a ventilation fan in the ceiling or wall of your bathroom, do not use it. The fan will draw air from the bathroom, causing a back draft through the toilet.
- If there is a window in your bathroom and the air is drawn out through it, you should close the window.
- If the odor is detected during periods when there is a breeze outside. Install an approved wind directional cap that is available from BioLet Toilet Systems.

#### Odors outside the structure

The presence of odors outside the structure is a positive indication that the vent pipe is in an area of

air turbulence above the roof. The vent pipe must be raised to get the top above the air turbulence.

#### Excess moisture in the toilet

If you detect excess moisture inside the toilet:

- Check that there is a good flow of liquid from the drain tube.
- Ensure the mulch is not compacted and causing a "damming effect", preventing the liquid from getting to the drain.
- Ensure you are using the toilet within its limits of 4 people full time use and 6 people part-time use. Add bins, if necessary.

#### Excess moisture in the composting bin

If you notice the material inside the composting bin is not loamy and appears to be holding excessive moisture:

- Ensure you are using approved starter mulch (see "adding starter mulch" in the "use and care" section above).
- Ensure you are adding a sufficient amount of starter mulch.
- Ensure there is sufficient ventilation from the toilet (see "Odors in the bathroom" above)
- Ensure you are using the toilet within its limits of 4 people full time use and 6 people part-time use.
- If all else fails add 1 quart of coarse Perlite (available from most nurseries) to each gallon of starter mulch.

#### Warranty

#### **Limited Lifetime Parts Warranty:**

During the lifetime of the original owner, BioLet Toilet Systems will repair or replace any parts that are defective in material or workmanship due to normal noncommercial use in accordance with the owner's manual supplied by BioLet Toilet Systems. Proof of purchase may be required by BioLet Toilet Systems either in the form of a warranty registration card on file or copy of original invoice. After assessment by an authorized BioLet Toilet Systems service technician, BioLet Toilet Systems will ship replacement parts and instructions for replacement to the customer. Labor for the replacement of the defective parts is the responsibility of the customer. In the event the customer is unable to service the unit themselves they may elect, at their expense, to completely sanitize the unit and return it to BioLet Toilet Systems for repair. Any unit received by BioLet Toilet Systems for service that is not sanitized will be refused and returned at the customer's expense. No unit may be returned to BioLet Toilet Systems for repair without an authorized Return Material Authorization (RMA). Any returns received without a proper Return Material Authorization (RMA) will be refused and returned at the customer's expense. This warranty extends to the replacement of defective parts only; any additional costs are the responsibility of the customer.

#### **Limited Lifetime Body Warranty:**

In addition to the Limited Lifetime Parts Warranty described above, BioLet Toilet Systems will replace unit body parts (top, seat, base, and tray door), which are defective in material or workmanship due to normal noncommercial use in accordance with the owner's manual supplied by BioLet Toilet Systems for the lifetime of the original owner. In the event the exact replacement part is not available BioLet Toilet Systems will supply the customer with modifiable parts or issue a credit equal to the value of the part to be deducted from the purchase of a new unit.

#### Exclusions and Exceptions of Incidental or Consequential Damage:

Neither the manufacturer, its agents, or dealers accept responsibility, legal or otherwise for incidental or consequential damage to property or persons resulting from the use of its products.

Some areas do not allow the above, so this exclusion may not apply.

This warranty gives you specific legal rights and you may have other rights which may vary from area to area.

This warranty is in lieu of all other warranties either expressed or implied and no person is authorized to enlarge our warranty responsibility, which is limited to the terms of this certificate. The company reserves the right to change, improve or modify its products without obligation to install these improvements on equipment previously manufactured.

## BTS 33 Warranty Registration

To validate your warranty and help us serve you better please fill out and return this registration card. Under **NO** circumstances will BioLet Toilet Systems ever sell or give away this information. You will not receive mailings, telephone calls or email unless you indicate below that you would like to receive periodic information on updates and specials.

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