







Laveo DF1045 Portable Toilet User's Manual

Patented

CAGE CODE: 6NNM4



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Please visit the "Owner Tips
& Tricks" section on our
website for helpful
YouTube videos and more!

■ YouTube

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PRECAUTIONS

- **DO NOT stand on the Laveo.** Standing on the Laveo may cause damage or personal injury.
- NEVER use the Laveo for any use other than that for which it was designed.
- Use the Quick Floor Mount Kit by Dry Flush if you are going to install your Laveo in a moving craft or vehicle.
- Use ONLY power sources supplied by Dry Flush with the Laveo. Using alternate power sources may damage the unit and void the warranty. WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.
- Your Laveo is water resistant, but NOT waterproof. Please do not store or install the Laveo in unprotected areas.



- **Supervise children** when using the Laveo.
- DO NOT put sharp objects such as broken glass into the Laveo as it may puncture the containment material.
- If the toilet has turned on its side, check to make sure the Octagon Container is properly seated on the Square Key inside the toilet before using.



DO NOT THROW GLOWING CIGARETTES OR CIGARS IN THE TOILET!

• Normal operating ambient environmental conditions of the device are: 59-104° F (15-40° C), 15-95% relative humidity, up to 6,562 feet (2000 meters) in altitude, and Pollution Degree II.

PLEASE DISCARD WASTE RESPECTFULLY.

Dry Flush strives to maintain good relationships with recreational facilities and waste management personnel. We ask for your support in this effort by always properly disposing of waste in a manner that does not cause an issue.

SETUP

Before you begin using your new Laveo, let's take a moment to review some of the parts that make it work. You can come back to these pictures during set-up, or in the unlikely chance that you will have to call for technical support.

Pictured here are the various parts found on the front side of the Laveo.

The <u>Flush Button</u> activates the flush cycle. A single press and release starts the flush cycle. During the flush cycle, the button becomes inactive so you don't have to worry about flushing twice by accident.

The <u>Toilet Seat</u> is a standard round seat found in any Home Store. Enjoy the comfort of the provided seat, or change it to fit your style!

The <u>Trim Top</u> sits below the Toilet Seat and is a trim piece that covers the cartridge. No tools needed to remove the Trim Top. Simply lift the seat up and place the Trim Top aside to change the Refill Cartridge.



The <u>Toilet Base</u>. Made of durable high impact plastic, our Toilet Base is made to last! Clean the base with your cleaner of choice.

This picture shows the rear of your Laveo. This is where you can find the electrical connections that are used to power the Laveo.

The Battery Compartment is located at the bottom of the Laveo. It is designed to give the easiest access possible. No tools are needed to remove the battery from the compartment.

The Charge Cable is stored in the open edge of the Battery Compartment. Untuck the cable, remove the plastic cap, and plug into the supplied Battery Charger when you need to recharge the battery. To avoid damage to your battery, please disconnect the battery charger from the battery cable after two hours of charging.



The Power Inlet can be found above the top-right corner (Facing) the Battery Compartment. Whether you are using the 12V Battery we supply, or the optional AC (110 volt) Power Adapter, the Power Inlet is where you will plug in to power your Laveo.

The Power Cable plugs into the Power Inlet and supplies power from the Battery to your Laveo.

The Battery Keeper Plate can be found below the Battery Compartment. The tab in the middle holds the Battery in place. The Battery Keeper Plate is also one of the connecting points for our optional Quick Floor Mount Kit.

The Rear Panel covers the Printed Circuit Board, and its connections. There isn't any need to remove this panel, in fact we recommend you DO NOT remove the panel unless instructed to do so by a Dry Flush Customer Support. On the outside of the panel is where you can find the Product Label. This label also has the serial number of your Laveo printed on it.

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Refill Cartridge

Pictured to the right is the <u>Refill Cartridge</u>. The Cartridge sits below the Trim Top. This is where waste is wrapped and stored.

The <u>Cut Outs</u> are provided as a visual aid to align your cartridge correctly within the Laveo. The cartridge is installed into the Laveo with the Cut Outs pointing to the rear of the unit.

The <u>Bagging Material</u> is a continuous tube of material over 17' long. This proprietary material is what locks the waste and smell away for up to several months.

The <u>Octagon Panel</u> is used as a Key to ensure that the Bagging Material twists during the flush cycle. The Octagon Panel sits at the bottom of the Octagon Container.

The next image shows the inside of the Laveo with the Refill Cartridge and Trim Top removed.

The <u>Foam Gasket</u> assists in making a good seal against the underside of the Refill Cartridge and the lip of the Toilet Base. Should this gasket become damaged it should be replaced. Contact Dry Flush if you need to replace your Foam Gasket.

The Octagon Container supplies rigid support to the liner and bagging material while waste is being stored within the Laveo. Simply lift the Octagon Container up, and remove it from the unit when you need to put a new liner in. The container should not come in contact with waste during normal usage, but if it does, you can clean the container with the cleaner of your choice.



Octagon Panel



To the right is the view of the inside of the Laveo. This view shows the floor panel located below the Octagon Container.

The <u>Square Key</u> is connected to the shaft of the gear box (not shown), and is the part responsible for turning the Octagon Container during the flush cycle. The Octagon Container sits on top of the Square Key, and when the Octagon Container is properly aligned, the square hole in the container will drop down on top of the key. You can tell that the Octagon Container is sitting correctly on the Square Key by giving the Octagon Container a gentle turn in the clockwise direction. You should hear the gear motor making a whirring noise as you rotate the container, and there should be a reasonable amount of resistance as you apply a little force to turn the container.

The <u>Lazy Susan</u> helps to support the Octagon container, and to assist in the turning of the container during the twist cycle.



Getting your Laveo ready for use

Your Laveo Portable Toilet comes fully equipped and almost completely ready to use out of the box, but due to shipping regulations and the shipping environment, we ask that you please perform the following:

- 1. Lift up the toilet seat and remove the white Trim Top beneath it.
- 2. Carefully remove the Refill Cartridge and ensure that the Octagon Container is sitting properly on the Square Key. As you turn the container clockwise you should feel a little resistance and possibly hear the motor being turned below. If you do not, lift the container up an inch or two, place it back down, and turn the container slowly clockwise until the container sits itself upon the key. You should be able to feel this as it happens. Place the refill back onto the Laveo. Please note that the Cut Outs on the refill go to the rear of the Laveo.
- 3. Each refill cartridge has a black Octagon Panel attached to the Bagging Material. This is so the Bagging Material twists when the motor turns the Octagon Container. Use your hand to ensure that the black plastic octagon is fully seated in the bottom of the container, and then use your hand to push the barrier material to create a "bowl".
- 4. Plug the Power Cable into the Power Inlet. This is located at the rear of the unit. A picture of the connection and more information can be found on the next page.

Laveo Placement

The Laveo is highly portable and may be placed on any level surface, indoors or out. Please remember that your Laveo is water resistant, and not waterproof. Do not place your Laveo anywhere where water may pool. Also, be sure that the surface supports the toilet and that the toilet does not become unstable. If more stability is required, an optional floor mounting kit will mount your Laveo firmly to most surfaces. Comfort Lift Packages including 3" base, deluxe handrail with comfort grips and wide base is also available for anyone who needs a little more stability, or a hand getting up. Please visit www.dry-flush.com to order.

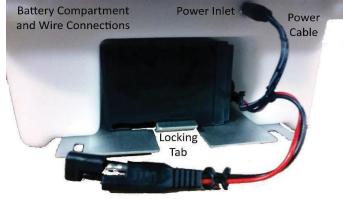
Installing in Vehicles, Boats, or Planes

If you plan to use the toilet within a vehicle, we recommend that you secure the toilet to prevent movement. A Quick Floor Mounting Kit designed for your Laveo can be purchased from www.dry-flush.com.

ELECTRICAL CONNECTIONS

The picture to the right shows a close-up of the <u>Battery Compartment</u>. We have already discussed the parts that make up this section on Page 4, but now we will discuss how to use these components.

The <u>Power Inlet</u> is where the Laveo receives power from the Battery, or from our optional AC Power Adapter. The end of the Power Cable, and AC Power Adapter both use a round Barrel Style connector. This is the



Charge Cable

same sort of cable used to provide power on many laptop computers. We chose this style of cable for its ease of use. Simply plug it in with no worry of having it in the right way. WARNING: Never plug in an AC Adapter that is rated for output above 12 Volts and 5 Amps. Doing so could cause damage to your Laveo, and could cause a fire.

The <u>Charge Cable</u> is where you will connect your Battery Charger when it is time to recharge the battery. The Laveo is designed to draw almost no power at all when the toilet is not in use. We recommend that the Laveo be charged for an hour or two if the toilet has been sitting for extended periods. If you have been using your Laveo more steadily it is recommended that you charge the Laveo for an hour or two each month of use. This recommended charging time will ensure your Laveo has plenty of power when you need it. Please remember to unplug your charger after a few hours. If you wish to have your Laveo connected to AC (standard wall outlet) for power all the time, we suggest purchasing our optional AC Power Adapter.

To release the Battery from the Battery Compartment: First, unplug the Power Cable. Next, grab the Power Cable and the Charge Cable in the same hand; with your other hand, press down the Locking Tab on the Battery Keeper Plate. With the Tab pressed down, gently pull the cables and battery out of the Battery Compartment. When putting the Battery back inside the Laveo, the Battery should be placed on its side with the Battery Connections to the right, and then slid into the opening with the connection side of the Battery going first.

The picture to the right depicts the <u>Battery</u> and the <u>Battery Cable</u>.

The <u>Positive</u> and <u>Negative Connections</u> are made with a Quick Disconnect style Terminal. Gently wiggle the wire connection left to right as you gently pull away from the Battery Terminal to disconnect the Battery Cable from the Battery. The connections to the Battery have been color coded to ensure that the Battery Cable is plugged in correctly when reconnecting the Battery Cable to the Battery.



The <u>Fuse Body</u> houses a 7.5 Amp ATO/ATC style fuse. This fuse can be removed from the body by gently wiggling the fuse along its length, while gently tugging away from the Fuse Body. If your Laveo suddenly stops working, a blown fuse is a likely cause. A fuse is considered blown when the strip of metal between the two blades is no longer connecting. Replacement fuses can be purchased at most big box stores, Dry Flush, or auto parts shops. It's generally best to bring the old fuse with you to ensure you buy the correct replacement. <u>WARNING: Never replace</u> any fuse with a fuse that is rated higher than the fuse you are replacing. Adding a fuse with a rating above 7.5 Amps could damage your Laveo, or cause a fire.

INSTALLING THE REFILL

1. Raise the toilet seat and lift off the white trim top piece.



2. Remove the Octagon Container from the Laveo. Place the black disposal liner into the Octagon Container, and roll the top down around the rim as you would a trash can liner. Secure the bag with the large rubber band supplied, and then



place the lined container back inside of the Laveo. NOTE: When you replace the container inside the Laveo, be sure that the Octagon Container is properly seated upon the Square Key. Twisting the container gently in a clockwise direction should result in some resistance from the twist motor. When properly seated, a mechanical "whirring" noise may also be heard.

3. The refill dispenser has an 8-sided panel attached to the bagging material. Pull as little bagging material as possible out of the dispenser while inserting the panel into the bottom of the liner.



4. Place the Refill Cartridge onto the round opening of the Base. Be sure to align the cut-outs on the Refill Cartridge to the rear of the opening. Replace the white Trim Top piece. Form the bag into a bowl shape using your hands, or just push the black button to initiate a flush. You are ready to use your Laveo. NOTE: The Refill Cartridge is manufactured with a Red Line to inform the user that the cartridge is empty and needs to be changed. Please change the Cartridge when this red line appears.



REMOVING WASTE AND EMPTY REFILL

- 1. Lift the toilet seat and remove the underlying white Trim Top piece.
- 2. Please help us to recycle! Lift up the plastic cartridge rim and pull or cut the bag away from the bottom of the plastic rim so that the silver mylar bag is released easily into the black garbage bag below. Put the now-untethered plastic rim into an appropriate recycling bin.
- 3. Pull up the sides of the disposable plastic garbage bag containing the silver mylar bag and its contents out of the toilet base.
- 4. Grab the edge of the Refill Cartridge and lift up the edge to expose the lined Octagon Container below. With the edge of the cartridge sitting on top of the container, pull the liner inside of the container up and over the plastic shell of the Refill Cartridge.
- 5. Using the supplied bag twist tie, twist and seal the black liner bag. Discard in any trash receptacle.



NOTE: All known landfills accept human waste if it is sealed, but please be considerate when discarding into trash cans. Ensure the bag is sealed.

Please use common sense when disposing of your waste. Make sure that the black plastic bag is closed and tied properly and that you don't leave it anywhere that people or curious animals might get to it. In short, please help us to maintain a good reputation by discarding your waste in such a manner that it never causes anyone discomfort.

Need more refills? Please visit <u>www.dry-flush.com</u> to order today!

HOW TO USE YOUR LAVEO

In most respects your Laveo works like an ordinary porcelain toilet. After use, press the Flush Button. Your Laveo will turn on and run through a 16 second cycle that will close the Bagging Material around the waste, by twisting and compacting the waste, finally creating a new "bowl" that is ready for use. The seat can be in an upright, or closed position according to your preference.

Your Laveo has enough capacity within the Octagon Container to support the claim of 15-17 flushes per cartridge. For each use, one flush is removed from the cartridge, and one allotment of space is filled in the container. For example, you cannot use the Laveo ten times before flushing and expect to have another 14-16 flushes remaining. The result is using the Laveo 10 times before flushing is that you have used the allotted space in the Octagon Container for 10 of the 15-17 flushes available within the cartridge.

Using Pee Powder

Since we pee a lot more than we poop, we released our Pee Powder to save you money by allowing you to comfortably get more uses per flush. This amazing powder solidifies and deodorizes urine. Since urine takes up less space in the container you may extend your use per bowl for urine to 3:1, or three pees to a flush. We do not recommend this with poo.

TROUBLESHOOTING

PROBLEM

Toilet does not flush - no power

SOLUTION

Ensure that your Battery is fully charged. (Page 8)

Ensure that the Power Cable is securely plugged into the Power Inlet. (Page 8)

Remove the Battery and check to ensure the Battery Cable connections are connected securely. (Page 9)

Check to see that the Fuse is intact. (Page 9)

Charge the Battery. (Page 8)

Add a 12oz cup of water to your next flush.

Much like a porcelain toilet, sometimes there can be a little left over in the next bowl. Our Pee Powder greatly reduces the chance of this happening by solidifying the urine before the next flush and, better yet, you save money! Please read more about our wonderful Pee Powder online at www.dry-flush.com.

Toilet runs very slowly

Material rises above seat when flushing.

Liquid leaked into the next bowl.

SPECIFICATIONS

Electrical:

12 vdc 5amp during flush, 0.5 u-amp idle. Power Inlet 5.5mm OD, 2.1mm ID, 12mm Length



Dimensions:

18.25" (464 mm) high

16" (407 mm) wide

20" (508 mm) deep

Weight:

23.25 lbs. (10.57 kg)

29.00 lbs. (13.18 kg) with battery



www.dry-flush.com