Need Help?

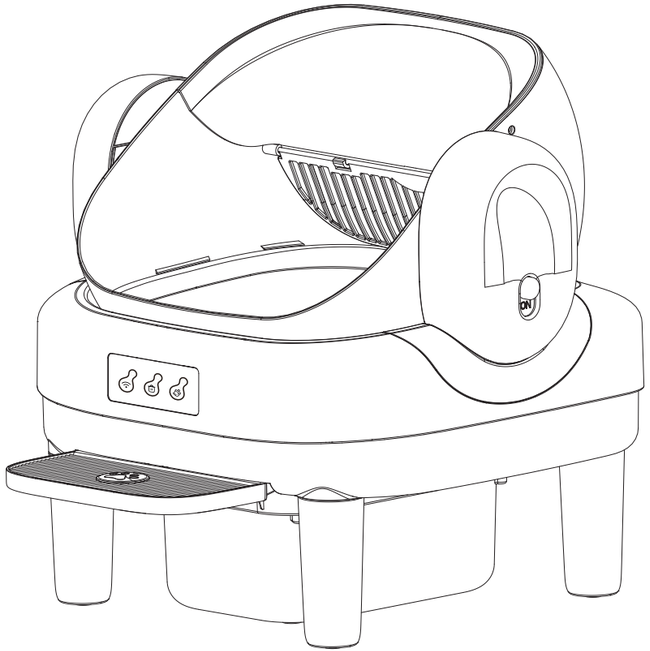
TEL: (800) 318-9865
Email: support@palnests.com

Made in China

PalNests

Automatic Cat Litter Box

User Manual



Model: FJ111

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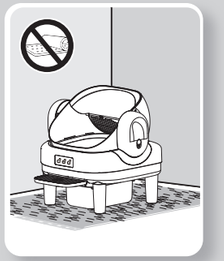
01 IMPORTANT SAFETY INSTRUCTIONS

⚠ Please read all instructions carefully before use

Kittens under 6 months or weighing less than 3.3 lbs MUST activate Kitten Mode before use. Auto cycle & scheduled cleaning are for bidden to avoid entrapment risk.



DO NOT place the device on carpet. Place it on a sturdy and flat floor and leave some space around it.

DO NOT place the unit on an elevated surface where it could fall and become damaged.

DO NOT drag the litter box. To avoid damaging the weight sensor, lift the base with both hands when moving the unit.

DO NOT rinse or immerse the base in water other liquids.

When using an electrical appliance, especially around children, always follow basic safety precautions, including the following:

- INTENDED USE

1. This appliance is not intended for use by persons, including children, with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed on the safe use of the appliance by a person responsible for their safety.
2. To reduce the risk of injury, close supervision is necessary when the appliance is used by or near children. Children should be supervised to ensure they do not play with, in, or around the appliance. Keep the appliance and all accessories out of reach of children.
3. This product is not intended for use by disabled, incapacitated, elderly, or mobility-impaired cats that may have difficulty entering or exiting the litter box.
4. Do not use the appliance for any purpose other than its intended use. This product is designed for cats only and is intended solely for the safe collection and disposal of cat waste.

- ELECTRICAL SAFETY

1. DO NOT operate the appliance if the power cord or plug is damaged, or if the appliance is malfunctioning or has been damaged in any way.
2. DO NOT use any external power supply other than the one provided with the appliance. Use only the included power adapter.
3. DO NOT immerse the power adapter or base in water or any other liquid, or allow moisture to come into contact with these parts.
4. DO NOT submerge or expose electrical components to water or cleaning solutions.
5. If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified personnel to avoid a hazard.
6. Always unplug the appliance when not in use, before installing or removing parts, and before cleaning, maintenance, or servicing. To unplug, grasp the plug, not the power cord.

- USE AND PLACEMENT SAFETY

1. Always place the litter box on a firm, level surface. Avoid soft, uneven, or unstable flooring, as it may affect the accuracy of your cat's weight measurement. If using a litter mat or rug, place it in front of the unit. Do not place mats partially or completely under the unit.
2. Keep the unit indoors in a cool, dry location. Avoid exposure to high temperatures and humidity.
3. Avoid contact with moving parts.
4. DO NOT sit on or place anything on top of the litter box.
5. DO NOT place anything in the unit other than clumping litter or litter granules small enough to pass through the screen.
6. DO NOT allow pets to chew on or swallow any parts. Carefully cover or hide the power cord to prevent pets from biting it.

7. DO NOT allow anything to rest on the power cord. Do not plug in power adapter in an area where people or animals may walk or trip on cord.
8. DO NOT attempt to disassemble, repair, modify or replace any part of the appliance. No user serviceable parts inside. All servicing should be performed by qualified personnel only.
9. DO NOT use accessories or attachments that are not recommended by the manufacturer. Dispose of all packaging materials properly. Keep away from children and pets. Keep plastic bags away from babies and small children.
10. DO NOT use in cribs, beds, carriages or play pens.
11. Always wash hands thoroughly after removing the waste. Pregnant women and those with suppressed immune systems should note that a parasite sometimes found in cat feces could cause toxoplasmosis. Exercise caution and consult with a physician before handling the litter box.
12. Keep the deodorizers out of reach of children and pets to avoid accidental ingestion.
13. If the litter box will not be used for an extended period, empty and clean drum and waste drawer.
14. How often you will need to replace the litter box liner depends on the number and size of your cats. We recommend to replace every 3 to 5 days to avoid bacteria growth.
15. The litter box liner is not a toy. Keep it out of the reach of babies and children. Do not use in cribs, children's beds, prams, pushchairs or anywhere in the vicinity of children.

- FOR HOUSEHOLD USE ONLY SAVE THESE INSTRUCTIONS

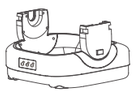
Specifications

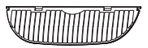
Rating	DC 12V 1A
Rated Power	8W
Wi-Fi	2.4GHz
For Cat	Weight:<27.6lbs, Age： all
Applicable Litter	All clumping cat litter (bentonite mineral, mixed and tofu cat litter)

02 EXPLORING CAT LITTER BOX

- Part List

Check if all accessories are included.
If there is any part missing ordamaged.
Contact us via Email: support@palnests.com

Part	Description	Photo	Quantity
A	Base		1
B	Drum		1
C	Waste Drawer		1
D	Support Legs		4
E	Step		1

Part	Description	Photo	Quantity
F	Side Cover		1+1
G	8mm Small Mesh Ideal for fine-grain litter		1
H	10 mm Large Mesh Perfect for clumping litter		1
I	Power Adapter		1
J	Litter Box Liners		1
K	Deodorizer		1
L	Brush		1
M	User Manual		1
N	Quick Start Guide		1

- Control Function

Wi-Fi Setup

Hold for 3 seconds until one beep is heard to bring the litter box into pairing mode (Wi-Fi indicator running in sequence).

Empty All Litter

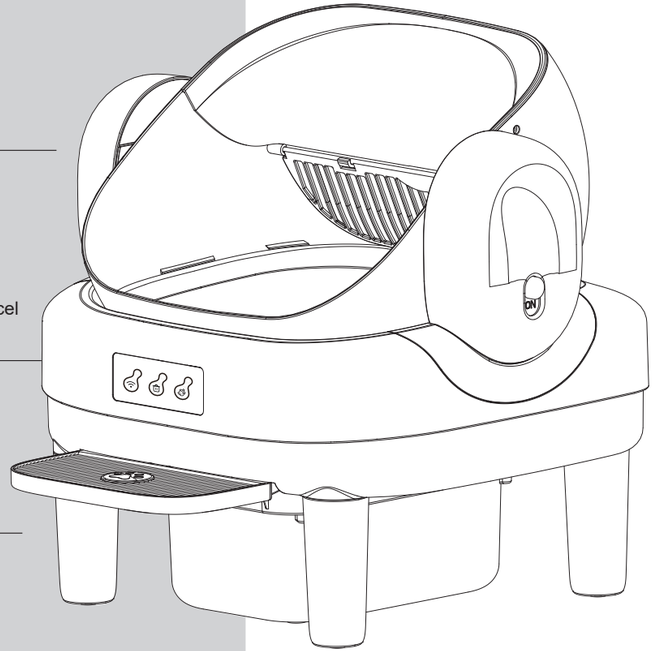
- Hold for 3 seconds until one beep is heard to start emptying all litter.
- If already started, press it once to pause.
- Emptying will automatically resume after 15 seconds if no further operation is done. To cancel if already started, hold it for 3 seconds again.

Clean Waste Litter

- Press once to start cleaning the waste litter.If already started, press it once again to pause.
- Cleaning will automatically resume after 15 seconds if no further operation is done.

Child Lock

Hold and simultaneously for 3 seconds to turn on or cancel child lock.



- Status Indicators

Solid ON	Flashing	OFF
Solid ON Blue Child Lock ON	**Solid ON Red** Infrared sensor blocked	**Running in Sequence** Setting up Wi-Fi
Solid ON White Emptying all litter	**Flashing White** Emptying paused	**Flashing Red** Motor error
Solid ON White Cleaning waste litter	**Flashing White** Cleaning paused	**Flashing Red** Hall sensor error
Flashing Alternately Cat / weight detected when standby	**Solid ON** Drum Returning to Home position	**Flashing Red** Weighing error

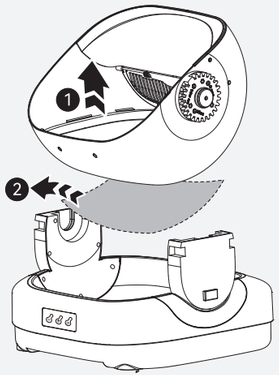
03 USING CAT LITTER BOX

- Setting Up

- Remove all protective tapes and foam pads before use.
- Make sure that the side covers are properly locked in place before use
- Make sure that the drum, support legs and waste drawer are properly installed in place before use.
- Bundle the extra power cord with cable ties or rubber bands.

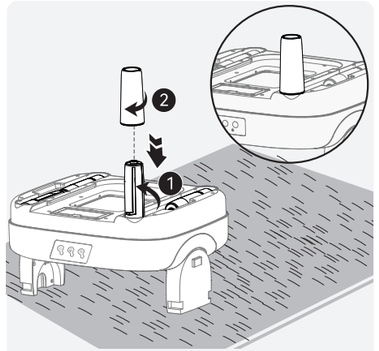
Remove all packing materials. Take out the waste drawer and all accessories.

1



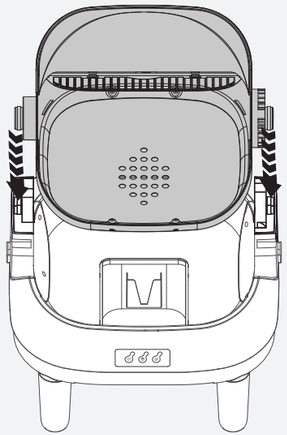
Lift and remove the drum, then take off the protective foam pad.

2



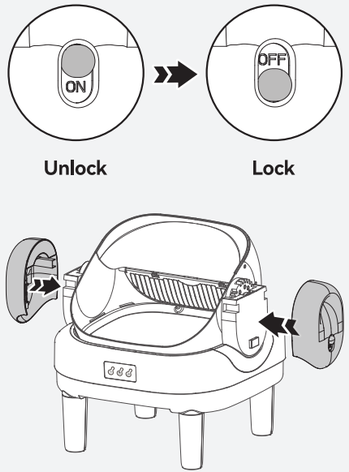
Place the base upside down on a flat surface with a mat underneath to avoid scratches. Unfold the four bottom folding support legs 90° until perpendicular to the ground, then slide the support leg sleeves onto the legs and lock in place.

3



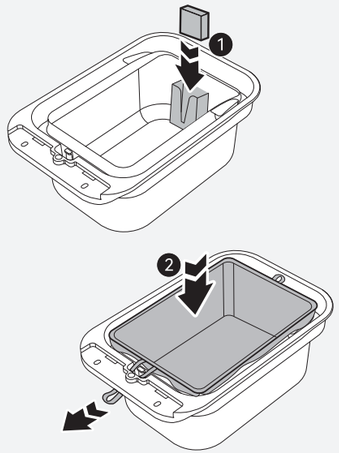
Install the Roller: Set the base upright. Lower the roller into position, making sure the bearings on both sides are fully seated in the slots.

4



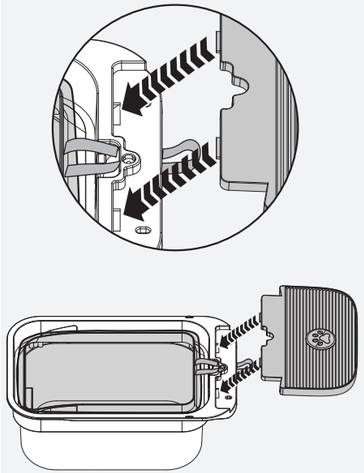
Align the side cover with the guide rails and slide it into place. Move the top lock switch from ON to OFF to secure the cover.

5



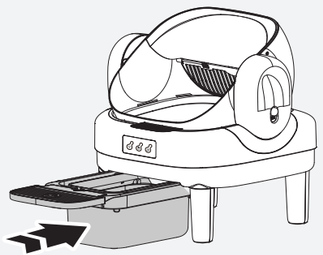
Place the deodorizer in. Spread a trash bag evenly inside the waste drawer over the pressure ring. Tuck the drawstrings under flip ears.

6



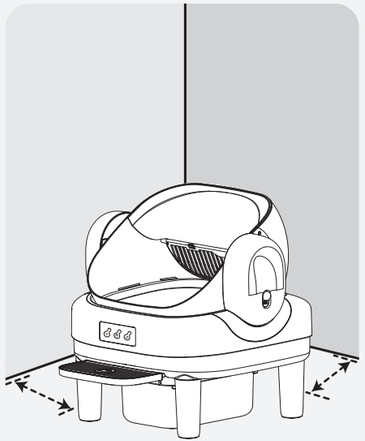
Align and attach the step to the waste drawer.

7



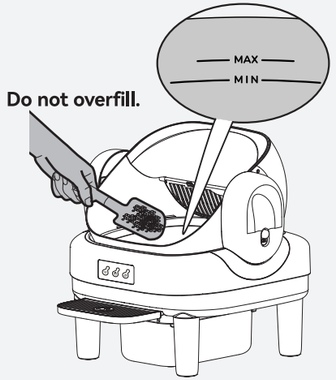
Slide the waste drawer in along the rails until it is fully in place.

8



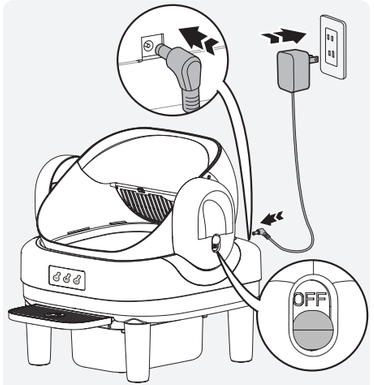
Place the litter box indoors on a firm, level surface with a minimum of 3 inches of clearance from the wall.

9



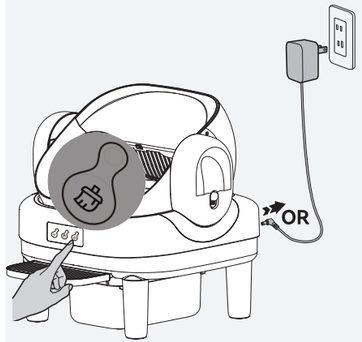
Add clumping litter between the MAX and MIN fill line when spread flat. Do not over fill.

10



Wait for the drum to return to Home position automatically, then the unit is ready for use.

11



If cat litter is added after the litter box is plugged in, unplug and re-plug in, or press once to return the drum to Home position.

12

Introducing New Litter Box to Your Cat

To help your cat transition to the new litter box:

- **Location is Key.** Place the litter box in the same location as theold one, or leave the old one nearby for a short period of time (at least during transition).
- **Keep the Old Box.** Do not throw out the old box. Put the new one in its desgnated spot and stop cleaning out the old one.
- **Use Recognizable Scents.** Add a scoop of litter from the old litter box to provide a familiar scent for your cat.

- Wi-Fi Setup

2.4GHz

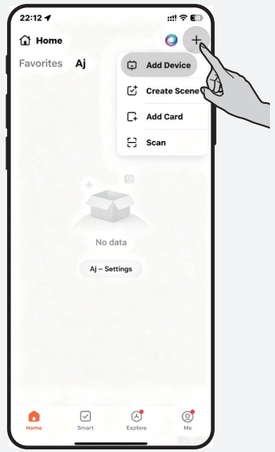
- Make sure that your mobile is connected to a secure 2.4GHz network is enabled. Allow access to your location during connection.
- Location during connection.
- Make sure that the drum is at the Home position before connectting
- You can use the litter box with control buttons only or download APP for mcustomizable options.

Available on the App Store

GET IT ON Google Play

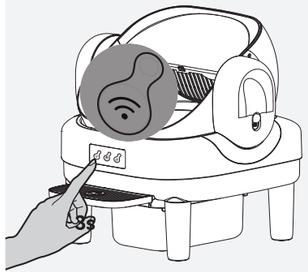
Search for “Tuya Smart” or scan the QR code to download the Tuya Smart app, then sign up as instructed.

1



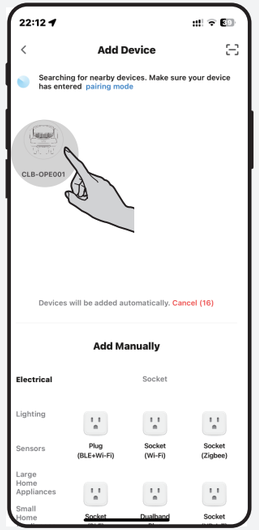
Open app, tap + , then tap Add Device.

2



Hold for 3 seconds until one beep is heard to bring the litter box into pairing mode (3 indicators running in sequence).

3

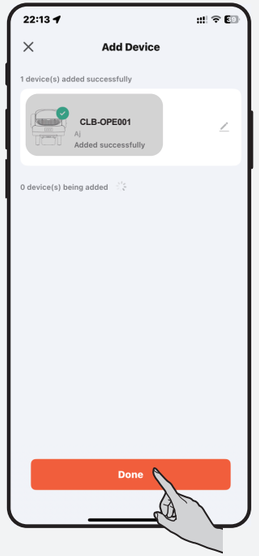


Wait for auto searching, tap the device to be added.

4

Select a 2.4GHz Wi-Fi and enter password. Tap Next to continue.

5

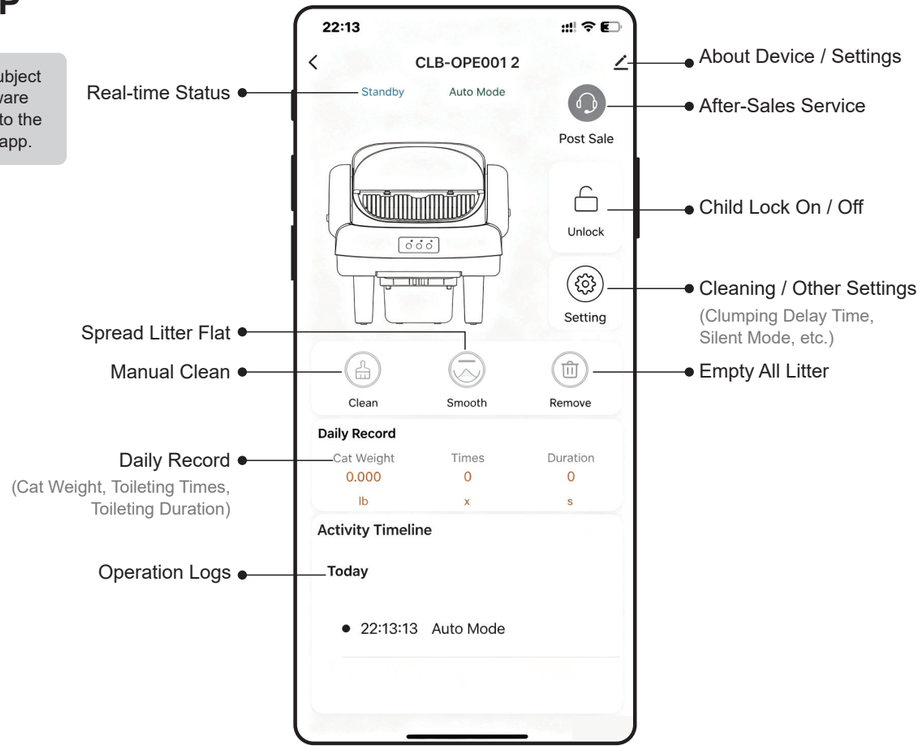


Wait until it connects and the Wi-Fi indicator turns solid on. Tap Done to complete setup.

6

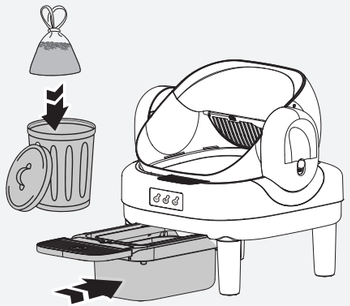
- Using with APP

The app interface is subject to change due to software updates. Please refer to the actual interface in the app.



04 CARE AND CLEANING

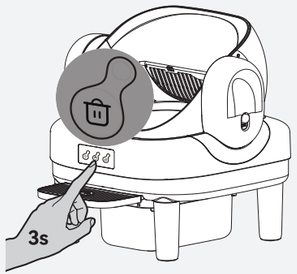
- To prevent litter spillage, empty the waste drawer before empbtying all litter.
- Avoid using soaps, cleaners or chemicals that have strong odor or contain scents that are cat repellent, like citrus, lavender, peppermint, etc.
- DO NOT rinse or immerse the base in water or other liquids.
- Always dry all parts thoroughly before reassembling for next use. Ensure all parts are properly assembled in place.



Slide out the waste drawer and dispose of the trash bag. Replace the liner with a new one, then slide the waste drawer back in.

* To prevent litter spillage, empty the waste drawer before emptying all litter.

1

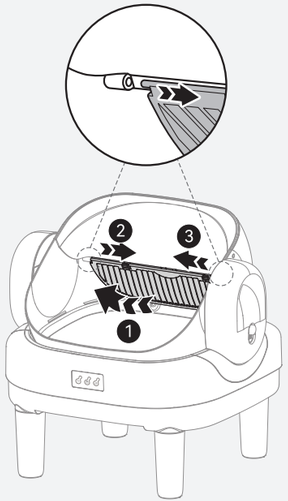


Hold 🗑 for 3 seconds until one beep is heard to to start emptying all litter. Wait until the empty cycle is done.

2

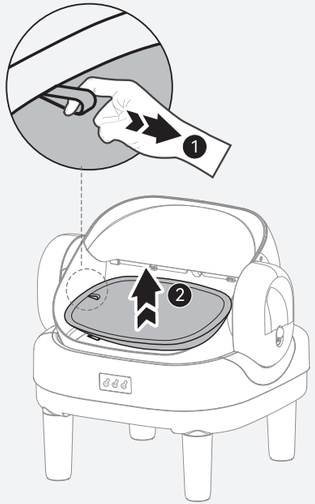
Switch off and unplug the litter box. Slide the waste drawer out and dispose of the litter.

3



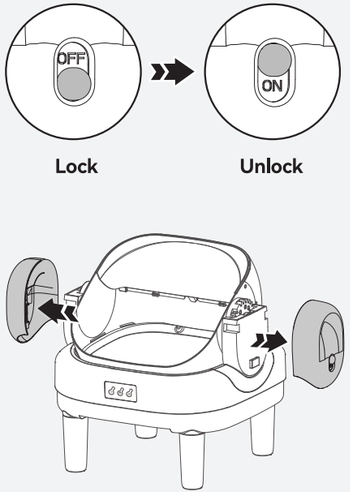
Flip the filter screen up to disengage the two center clips, then pull the filter screen out end-to-end from left to right.

4



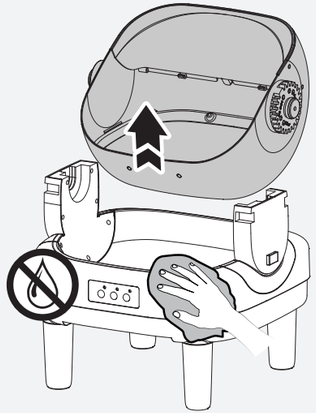
Pull the tab to carefully remove the inner fabric pad.

5



Slide the locking switch above the Side Cover from OFF to ON.
Confirm the switch is in the ON position.
The Side Cover can then be horizontally installed and removed.

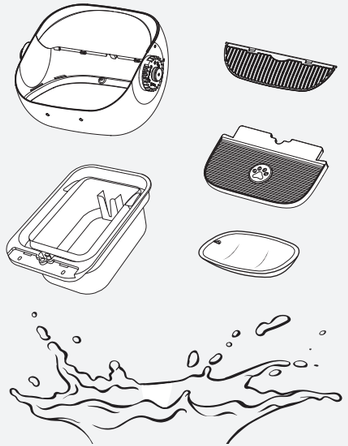
6



Hold to take out the drum. Wipe clean the base with a soft, slightly damp cloth or sponge. Wipe or air dry thoroughly before reassembling.

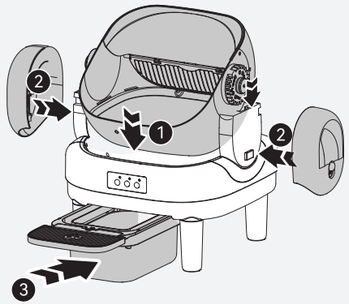
*Do not rinse or immerse the base in water.

7



Rinse clean the drum, waste drawer, fabric pad, step and filter screen.
Wipe or air dry thoroughly before reassembling.

8



Attach the drum, waste drawer, fabric pad, and filter screen back.
Ensure that all parts are properly assembled and locked in place.

9

05 TROUBLESHOOTING GUIDE

The troubleshooting guide addresses the most common problems. IIf problems persist, feel free to contact the Customer Support via email: ***support@palnests.com***

Problem	Solution
I cannot connect the litter box with my mobile.	• Make sure that your mobile is connected to a secure 2.4GHz Wi-Fi network and Bluetooth is enabled. • Make sure that your mobile and litter box are connected to the same Wi-Fi network • Make sure that you have entered a correct Wi-Fi password and the litter box is under strong Wi-Fi signal. • Check if the litter box is linked to another mobile. Press and hold for 3s to pair again or have the mobile unbound on app. • Check if a 5GHz frequency is used. Try a Personal Hotspot, or change 5GHz to 2.4GHz to connect your mobile. Consult the router supplier for detailed instruction on router configuration.
Drum does not rotate or stops rotating during cleaning or emptying.	• Disconnect from the power supply and remove the drum to check if there is any foreign object stuck at the rotating shaft. • Make sure that the drum is properly installed on the base and the side covers are locked Reconnect it to the power supply and try again. • The drum stops rotating automatically when cat / weight is detected.It will resume rotating • after the cat leaves, or the weight is removed.
Drum does not stop when cat enters.	• Check and make sure that the litter box liner is spread evenly inside the waste drawer. • Disconnect from the power supply and remove the drum to chedck if the infrared sensors are blocked by foreign object. • Use only for cats weighing at least 3.3lbs but less than 27.6lbs.

Litter box does not clean automatically after cat leaves.	• Check and make sure that Auto Mode is selected on app. • Check if the cleaning delay time is set too long. It is recommended to set6min delay for solid clumps. • If cat litter is added, press once to return the drum to Home position. • Disconnect from the power supply and then reconnect.
How to reduce unpleas-ant odors from litter box?	• To minimize unpleasant odors from the cat litter box, • Scoop daily or more frequently to keep the odor at a minimum. • Regularly clean the litter box and waste drawer. • Regularly replace the litter. Fresh litter absorbs odors better. • Choose odor-absorbing litter. • Ensure proper ventilation. Place the litter box in a dry, well-ventilateed area where humidity is at a minimum. • Try the included deodorizer • Introduce a second litter box. For multiple cats (3 cats or more), vve recommend using at least two litter box.
How to prevent litter sticking?	• Choose a highly absorbent, fast-clumping litter for the litter bopx. • Always keep enough litter between the MAX and MIN fill line. • Regularly spread the litter to keep the surface even and prevent thiin spots. • Set a longer time for forming solid clumps. • Check if any part of the litter pad is damaged. • For soft or loose stools, try adjusting your cat's diet or portion size. Icondition persists beyond a day or two, seek advice from your veterinarian.
Buttons are not responsive.	Check if child lock is enabled (Wi-Fi indicator on blue). Hold Empty aind Clean buttons simultaneously for 3 seconds or tap Unlock on app to cancel childlock.

I cannot weigh my cat accurately.	• Make sure that the litter box placed on a firm, level surface with space around. Do not place the mat partially or completely under the litter box. • Disconnect from the power supply, reconnect and try again. • Cat movement can cause weight errors of 10-20%, so the weight on app imight not reflect its actual weight.
How often should I add cat litter?	How often you will need to add cat litter depends on the litter depth in the litter box. Ensure you always keep enough litter between the MAX and MIN fill line.
How often should I replace the litter box liner?	How often you will need to replace the litter box liner depends on your personal preference and your cat's behavior. For a single cat, we recommend replacing daily in summer, and every 2-3 days in spring/autumn. For multiple cats, we recommend repfacing every day.
Can the litter box be used by all cats?	Cat or kitten must weigh at least 3.3lbs but less than 27.6lbs, andage 6 months or older to safely use the litter box. To ensure safety for small kittens (under 3.3lbs), enable Kitten mode on app. This disables auto clean and allows manual clean
Can I use the litter box without APP?	Yes, you can use the litter box with control button only or download APP for more custoiz-able options.
How to get new litter box liners or deodorizer?	For new litter box liners or deodorizer, search for Thereye litter beox liners or deodorizer on Amazon or contact our Customer Support via email: **support@palnests.com**

My cat frequently kicks litter out of the box during use.	The entry height is adjustable. You can adjust the entry height to better suit your cat's habits. To adjust, go to Settings → Others Setting → Entry Height in the app, select preferred height, then press once to complete the reset.
Litter box rotates so slowly.	1. A slower, more even rotation allows for more thorough filtering of the litter, giving larger particles (e.g., mixed tofu litter) sufficient time to be properly filtereed. 2. The drum pauses briefly at its highest tilt angle, allowing larger clumps ough time to fall off completely. 3. After the cleaning cycle is done, an automatic leveling cycle runs to spread the litter flat. This makes it easier for your cat to use the box next time and also prormotes better clumping.
Litter doesn't get cleaned up properly, or it sticks heavily to the bottom.	Try adjusting the clumping delay time. For standard mineral litter, we recommend setting it to 6-8 minutes.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference may cause undesired operation

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, thhere is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different frorm that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimun distance 20cm between the radiator & your body.

IC Compliance

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two condditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appaareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licerce. L'exploitation est autorisée aux deux conditions suivantes
(1) L' appareil ne doit pas produire de brouillage;
(2) L' appareil doit accepter tout brouillage radioélectrique subi, mêmesi le brouillage est susceptible d' en compromettre le fonctionnment

Radio Frequency Exposure Statement for IC
The device has been evaluated to meet general RF exposure reqjuirements. The device can be used in mobile exposure conditions. The min separation distance is 20cm.
Déclaration d'exposition aux radiofréquences pour IC
L'appareil a été utilisé pour répondre aux exigences générales en matière d'exposition aux radiofréquences.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the roduct and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent poble harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local governmeent office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product andits electronic accessories should not be mixed with other commercial wastes for disposal.