

Empowering Healthy Habits through Technology

Product Manual

Self-Cleaning Smoothie Blender

Generation: Banana

Version 1.5 (April 2023) We are constantly updating this document. Please get in touch with us for the latest version.



















The Boston Blobe



Table of Content

1. Safety

- Disclaimer a) b)
- Safety notes regarding equipment Safety notes regarding food product
- c) d)
- Certifications
- Required sanitizer and water filter e)

2. Introducing the smoodi system

- Machine overview and technical specs smoodi Machine with Back Cover a) b)
- How it works C)
- Technical requirements Core sub-assemblies d
- e)
- Core safety systems Product label Smoodi consumables g) h)

3. Machine installation and start-up

- Preparation of counter for smoodi equipment a) installation
- Site inspection checklist Machine installation b)
- c) d)
- Machine start-up checklist

4. Service Menu

- a) b)
- c) d)
- Service menu access Calibration of machine Update latest software Run system diagnosis Additional service menu functions e)
- Connect to Wifi

5. Regular maintenance

- a b
- Daily maintenance Monthly maintenance Water filter replacement Sanitizer replacement c d

6. Cleaning and sanitization

- Automatic sanitization
- a) b) Run Manual Cleaning Run Manual Sanitization
- c1

7. Core servicing procedures

- Remove transparent tube door a)
- Install transparent tube door b)
- Remove blender assembly squeegee C)
- Install blender assembly squeegee d)
- Remove silicon cover on cup holder e)
- Install silicon cover on cup holder f)
- Replace the blade g)
- Open side panel h)
 - Close / install side panel
- Access electronics box by removing back panel
- Disconnecting the machine k)
- Connect external keyboard or mouse*
- Update Arduino code * m)
- Removing the blender assembly * n)
- Replacing the plumbing plate * 0)
- Replacing the touchscreen* p)

8. Troubleshooting

- **Troubleshooting Symptoms** a)
- b) Troubleshooting Tips
- C) Servicing Kit

9. Smoodi servicing plan

- Scope of servicing a)
- Service contact b)
- Additional resources and supply links c)
- d) Feedback

10. Machine spare parts list

- Hardware a)
- b) Electronics
- C) Plumbing

11. Appendix

- smoodi consumables specs a)
- smoodi accessories b)
 - i) Freezer
 - ii) Header
 - iii) Footer
 - iv) Bamboo straws
 - Custom signages V)
- smoodi machine assembly C)

* Internal use only, in the future also shared with 3rd party service partners



1. a) Disclaimer

Please use the smoodi blender in accordance with this product manual and user guide. DO NOT attempt to run the equipment unless you have been properly trained to do so.

Any servicing of the smoodi machine beyond regular maintenance as listed under 5. should be done by smoodi trained and authorized service technicians only.

For any additional questions please contact the technical support of smoodi or your regional manager.

Note: smoodi is striving to continuously improve and therefore, information in this manual is subject to change without notice.

Note: Only instructions originating from smoodi are considered to be the original set of instructions.

1. b) Safety notes regarding equipment

DO NOT operate this unit unless all service panels and access doors are restrained with screws and lock, respectively. Failure to do so can result in severe personal injury!

DO NOT attempt any repairs unless the main power supply to the unit has been disconnected.

DO NOT remove any internal operating parts unless machine is disconnected. Failure to follow these instructions may result in severe personal injury from hazardous moving parts.

DO NOT operate the unit with larger fuses than specified on the product label.

Use GFCI (either as a plug or in the wall connections). If the power supply cord is damaged, it must be replaced by smoodi, Inc. or an authorized smoodi technician in order to avoid a hazard. Failure to follow these instructions may result in electrocution or damage to the unit. The smoodi servicing plan does not cover gross negligence.

Use gloves when working inside machine. It HAS SHARP EDGES on the inside THAT CAN CAUSE SEVERE INJURIES.

DO NOT place hand(s) inside of the machine (without turning it off beforehand). It is a PINCHING or CUTTING / CRUSHING HAZARD.

This unit MUST be installed on a level surface to avoid the hazard of tipping. Extreme care should be taken in moving this equipment for any reason.

Two or more people are required to safely move this unit. Failure to comply may result in personal injury equipment damage.

This unit MUST NOT be installed in an area where a water jet or hose can be used. NEVER use a water jet or hose to rinse or clean this unit. Using a water jet or hose on or around this equipment may result in the electrocution of the user or damage to the equipment.

DO NOT operate the smoodi system if sanitization procedure has not been completed at least once daily. Further, cleaning and sanitizing schedules are governed by your state or local regulatory agencies and must be followed accordingly. Please refer to the cleaning section of this manual.

1. c) Safety notes regarding food product

To ensure the quality and sanitization of our products it is important to consider the following aspects:

Maintaining the frozen supply chain

Since our products are IQF (Individual Quick Frozen) it is crucial that we never break the frozen chain. The temperature of our smoodi medleys should never be above 0° F before delivery to the final location. When loaded into freezer for consumption, make sure temperature of freezer does not exceed 8°F. (Temperatures will necessarily raise as the door is opened frequently)

Integrity of the frozen consumables

DO NOT ACCEPT CUPS THAT APPEAR THAWED OR FROZEN IN A BLOCK! It is a health risk, can damage the machine, and will create a bad customer experience (both in terms of blend time and taste). Reject, and report to smoodi. Same goes for damaged packaging.

Washing Hands

Before the handling of our products all employees, staff or contractors need to wash their hands with enough soap for at least 20 seconds

Allergens

Some of our products may contain allergens. Review labels of our medleys for more information.

1. d) Certifications



The **National Sanitation Foundation (NSF)**, is a non-profit organization founded in 1944, whose goal was to create standards for food safety and sanitation to promote public health.

The smoodi blender has been certified by NSF in Dec 2021, that means it uses only FDA approved raw materials and the cleaning and sanitization procedures are validated as effective by NSF standards.

For further information: https://www.nsf.org/



Underwriters' Laboratories (UL), LLC is a global safety certification company headquartered in Northbrook, Illinois. The UL Mark means a product has been certified to meet scientific safety, quality or security standards.

The smoodi blender has been certified by UL in Nov 2021, under the standard E523837, that means it can be deployed commercially.

For further information: https://www.ul.com/

1. e) Required sanitizer and suggested water filter



SANITIZER:

Glissen Chemical - 300048 Nu-Foamicide EPA Registered 1-Gal All Purpose Cleaner Concentrate, Industrial Commercial Grade

Purchase link



WATER FILTER:

3M Water Filtration Products HF95-CL High Flow Series Replacement Water Filter Cartridge - 5 Micron Rating and 2.5 GPM

<u>Purchase link</u>

2. Introducing the smoodi System

2. a) Machine overview and technical specs



TECHNICAL SPECS

Height 32.5" (826 mm) Width 10.5" (267 mm) Depth (excl. filter in the back): 19.5" (495 mm) Depth (incl. filter in the back): 25" (635 mm) Operating weight 68.2 lbs (30.9 kg)

Inlet Fuse rating: 5 Amps

Performance specs Throughput time: <2 min per smoothie Machine capacity: 30 smoothies per hour

2. b) smoodi Machine with Back Cover













2. c) How it works



See machine in action
Click for a short video



Pick smoodi cup from freezer *Pods with favorite fruits and greens*



Peel the seal & scan *Machine automatically opens, no touch*



Customize Select thickness & add any desired boosters



Blend Safely within a minute



Enjoy! *Meanwhile our machine cleans itself*

2. d) Technical requirements

- **Space:** 11" wide, 20" deep, 32.5" high ideally on a counter
- Electricity: 120V electrical plug, 3A for smoodi machine [freezer needs an additional 3A] - Inlet switch is Labelled "1 or 0" for "On or Off" respectively
- WIFI connection: Allows to log blends and sensor data for remote monitoring and smart servicing
- Plumbing (see next page for more details)
 - Fresh Water Supply (3/8" PTC)
 - Drain to be connected to standard dishwasher hose (1" ID) needs to be close to machine location to guarantee a steady downward slope





All threaded plumbing parts must be installed with plumbing tape on the threads



Any parts used for the fresh water supply must be NSF certified to uphold proper food safety standards



2. d) Technical requirements (Continued)

Plumbing connections

- Water and waste piping and fittings attached to the equipment shall comply with the material requirements for the applicable zones.
- Water and waste piping and connections shall comply with the International Plumbing Code,10 International Code Council (ICC), or with the Uniform Plumbing Code,9 International Association of Plumbing and Mechanical Officials (IAPMO).

Backflow prevention

Units intended to be connected to a water supply system under pressure shall have one of the following:

- an air gap at least twice the diameter of the water supply inlet but not less than 1.0 in (25 mm); or
- a vacuum breaker that conforms to ANSI/ASSE 1001,5 Atmospheric Type Vacuum Breakers (for intermittent pressure conditions); or
- a vacuum breaker that conforms to ANSI/ASSE 1020,5 Pressure Vacuum Breaker Assembly (for continuous pressure conditions); or
- a backflow prevention device that conforms to ANSI/ASSE 1022,5 Backflow Preventer for Beverage Dispensing Equipment; or
- a backflow prevention device that conforms to ANSI/ASSE 1024,5 Dual Check Backflow Preventers; AND
- equipment is to be installed with adequate backflow protection to comply with applicable federal, state, and local codes.

For more information on recommended backflow pre-center, please contact Watts (<u>https://www.watts.com</u>, smoodi's recommended supplier of backflow preventers), or smoodi (info@getsmoodi.com).

2. e) Core sub-assemblies





2. e) Core sub-assemblies Blender assembly





SECTION A-A





2. f) Core safety systems Limit switches

Multiple limit switches are in place to ensure safety of the smoodi blending during operation:



- **Tube door installed limit switch**: two limit switches in the back of the cylindrical, tube door validate that the tube door has been properly installed. If not, the smoodi machine will not operate.
- **Tube door closed limit switch**: two limit switches at the bottom of the core mechanical structure are engaged by the tube door carriage in its bottom position. The smoodi blender will never turn on when one of those switches is not engaged.
- 4 For the **latter two limit switches**, the hardware will override the software, for instance, the smoodi blender won't turn on if tube door is removed or not closed fully.
- Finally, three additional **mechanical limit switches prevent blender and food carriages from colliding**. If collision happens (through improper manual movements through the service menu), it can easily be solved by tapping on the Reset MC reserved button and then moving either the tube door down or the blender assembly up (depending on the actual position of both components during the collision). Refer to Service Menu section of this manual 4.a)









2. f) Core safety systems Sensors

Several sensors guarantee additional safety in the smoodi system:

Barcode scanner in the lower front of the machine. The barcode scanner recognizes smoodi SKUs and allows smoodi to get 100% accurate real time consumption data from each machine (that is shared with you on a monthly basis, included in the monthly smoodi servicing plan). In addition, it ensures that only quality controlled, pre-packaged smoodi cups can be used with the smoodi blender. This is extremely important from a food-safety and product quality perspective but also to protect the smoodi blender from serious damage as the proprietary smoodi cups and lids have a unique interface with the blender that allows it to function properly.

- **IR optical distance sensor for seal detection**. The proprietary smoodi lids contain a seal on top for tamper-proof. In the user experience (see 2.b), this seal is removed before blending. If a user forgets to remove this seal, the smoodi system, once properly calibrated is able to detect the seal via the IR optical sensor and display an animation and call to action to the user. The blender will not proceed until the seal has been peeled from the lid. The Service Menu allows to set / re-calibrate the IR optical sensor value. Any value below the set value will be interpreted by the smoodi system as: "Seal in place", any value above the set threshold will be considered as: "Seal is properly peeled".
- **Camera, next to the IR optical distance sensor** allows for remote maintenance. Important remark: The camera only captures the cupholder area including tube door and does not record any personal footage about each user.





2. f) Core safety systems Sensors

Several sensors guarantee additional safety in the smoodi system:

- **IR optical cup sensor**: Inside the cupholder, you can see two lenses that hold the emitter and receiver, respectively. It allows the smoodi blender to sense if a cup has been inserted. Similarly to the IR optical sensor, the IR cup optical cup sensor can be set / re-calibrated through the Service Menu. Any value below the set value will be interpreted by the smoodi system as: "Cup in place", any value above the set threshold will be considered as: "No Cup inserted".
- **5 Current sensor for blender** allows for smoodi's proprietary adaptive blending technology: If the resistance of the ingredients inside a cup is high, the blending will adjust accordingly. It allows to blend each smoodi to perfection based on the individual properties of each smoothie medley while also protecting the equipment and ensuring maximum durability of the blender
- **Current sensor tube door system**: Similarly, the smoodi system senses the current when the tube door is lowered to detect any foreign object or a user's hand and prevent them from crushing during door close operation. Tube door will just retract as soon as a specific current threshold is hit.



2. f) Core safety systems Fuses

Fuse and Jumper layout on PCB







Fuse List

Ceramic Fuses: AC Mains – 5A ceramic quick blow *in power inlet at back of machine (see image above for location)*

AC Blender – 3A ceramic quick blow on red blender power wire - (see right image for location)

DC Touchcreen - 5A ceramic quick blow on red screen power wire *- (see right image for location)*

Raspberry Pi - Rated 5A on red Raspberry Pi wire

Blade fuses on main PCB (see left image for location - with associated component in orange) smoodiBoard 12V – 10A blade smoodiBoard 5V – 7.5A blade (2x) linear actuator – 7.5A blade (8x) 12V solenoids – 3A blade

*All blade fuses shall be provided by Littlefuse or equivalent (part numbers below)

0297003.H 0297010.WXNV 0297005.WXNV 029707.5WXT

2. f) Core safety systems Fuses

- Most fuses on the PCB have indicator LEDs to help in identifying if the fuse if intact (when LEDs turn on).
- Check fuse in question to see if metal is continuous if not, please see if there was a reason it burned such as a short and then replace if no issue found.

A Please only add remove fuses when the machine is powered down and unplugged.

2.g) Product Label



Self-cleaning smoothie blender Generation: Banana

Power: 120VAC, 60 Hz 3A Water Inlet: 40-80 PSI Drain: 1" ID tube. Minimum slope - 1/2" per foot Drain must have an air gap within 12' of machine's outlet AC Fuses: Input: 250V 5A Blender: 250V 3A Please refer to service manual for DC blade fuse values on smoodiBoard main PCB

1. Power off system before placing hands within machine. Warning Shock and pinch hazards when energized.

2. Wear gloves when servicing any parts within machine - risk of sharp edges.

3. Install system with GFCI plug or outlet

4. Install system with a filtered water inlet along with shutoff valve, water hammer arrestor, and backflow preventer.

5. Connect sanitiser recommended by smoodi per installation requirements and make sure to refill as necessary

6. Touchscreen is a 10.1 inch monitor. Model: MKU-TSC101FZ rated at 12VDC 3.6A. Do not open the back cover of the screen - there are no serviceable parts inside (DANGER - high voltage inside screen)

Serial Number: 012106000101



This machine is patent protected under smoothie, Inc. by: US11207646B2, US20210274974A1

2. h) smoodi Consumables



- 16 oz, pre-packaged smoothie cups
- 100% natural whole fruits and greens
- No added sugar
- Come in proprietary packaging that is required for smoodi system to function properly
- Need to be stored in a freezer at below 0F at all time

Do NOT use smoodi machine with any other cups, it will most likely destroy the smoodi system. Warranty does not apply if used with other cups.



3. Machine Installation and Startup

3. a) Preparation of counter for smoodi equipment installation Bird view on counter (2D) Recommended to



Plumbing drill hole sizes and requirements:

Front of counter

Drain: use a 1.5" radius (or bigger) drill hole to accommodate the drain tube. Provide ample slack (minimum 24") to be able to service the machine. Recommended to use smoodi provided elbow adapter and hose clamp to connect drain tube to outlet of machine. Ensure minimum slope of 1/2" down per every 12" of run is maintained in the drain. Drain outlet tube shall be open to the environment (i.e. not a closed system) or vented within 10' of the machine outlet to avoid any pressure / vacuum related issues. An example of this would be a drain tube running into an open drain basin.

Water inlet and sanitizer inlet require 1/2" radius hole to run hose through furniture/cabinetry. The position of the holes are not critical but take into consideration whether the water filter will be mounted to the back of the machine or underneath the counter. Ensure pressure at the inlet of the machine is 40-80 PSI. Sanitizer line shall be no longer than 6'. If sanitizer is placed below the machine, make sure to install the 1/4" tube with a check valve provided by smoodi placed inside at the tube inlet at the bottom of the sanitizer bottle to make sure fluid remains inline without draining out as a result of gravity.

3. b) Site Inspection Checklist

GENERAL	Location name:Address: Address: Contact Name: Phone Number: Desired smoodi Launch Date: Traffic per day in the location: customers per day	ZER	 Fresh water supply available 3/8" PTC interface for water supply available Water pressure of supply is at least 40 PSI, measured water pressure: PSI Fresh water is filtered Type of filter: Drain / sink available for universal dishwasher drain hose (5/8", 3/4" or 1" inner diameter)
SPACE	 smoodi setup is visible to a consumer entering the location. If no, explain why?		 Drain is within 6 ft of machine to guarantee a steady downward slope of at least 1/2" per feet of drain tube Distance between drain and machine placement: ft Hole of at least 1.5" is present and available in counter for drain tube in the back of the smoodi blender PLEASE SEND CLEAR PICTURES OF FRESH WATER AND DRAIN CONNECTIONS Back-up freezer available for additional smoodi cases? (Y/N) If yes, is the freezer temperature below 0°E? Specify if other:
POWER	 3 x 120V electrical plug available with at least 5 Amps for each component 1 plug per blender 1 plug per freezer 1 plug per header Distance between electrical plug and desired smoodi blender position: ft 	WIFI FREE	If back-up freezer is available, available space for # cases WIFI connection available Name: Password:

Additional comments: _____

3. c) Machine Installation Required parts and tools

Required parts:

FRESH WATER SUPPLY (order of list from existing water supply to smoodi machine, see next slides):

- ¾" OD LLDPE tube (or equivalent NSF-approved tube)
- %" manual shutoff valve
- ¾" T-connector for water hammer arrestor
- Water hammer arrestor with %" PTC adapter
- Water filter (Part no. 5627302) with ¾" adapter piece



- 1" standard dishwasher hose, at least 6ft
- 1" Elbow connector

SANITIZER SUPPLY:

- ¼" tube
- ¼" Check valve (if sanitizer bottle is placed below machine level)

POWER:

• 120V power cord (ideally GFCI)





The tools required to assemble the plumbing parts may vary based on the location of the existing drain.

Suggested tools:

Channel locks/pliers



- Adjustable wrench
- Teflon tape (½")



• Tubing cutters





3. c) Machine Installation Back of machine with all required connections



3. c) Machine Installation Instructions (1/3)

- Place smoodi machine on a counter next to a drain outlet, make sure the counter is even 1.
- Installation of the smoodi machine is simple. If required connections are in place (see site inspection checklist), the smoodi machine is plug and play: 2.



a) DRAIN:

Connect drain tube to external drain and respective connector on back of machine □Attach drain tube to counter, if necessary, to ensure it does not move around during operations

b) FRESH WATER: ITurn off fresh water inlet



DAssemble back of machine plumbing kit (water hammer and water filter) see visuals on next page **Extrach** it to the back of the machine Connect fresh water line to shut-off valve of assembled back of machine plumbing kit □Add blue retention clips to all push-to-connect fittings to secure the tubes in place.

DTurn on fresh water inlet and ensure that there is no leakage.



c) SANITIZER



Delace sanitizer bottle behind the machine (or in a cabinet underneath) Connect ¼" sanitizer tube to machine

Dake sure the other end of the sanitizer tube goes all the way to the bottom of the sanitizer canister to ensure proper sanitization Use check valve in sanitizer bottle if placed below machine level.

Ensure proper orientation of check valve.



Make sure there is no kink or U shape in the drain tube that would either block the drain flow (kink) or allow for accumulation of water (U shape).



Make sure drain has a steady downward slope of at least ½" per ft



Ensure end of drain tube is not submerged in water - needs to be open for water and air to evacuate properly



Install fresh water connection with adequate back-flow protection to comply with national, state & local codes



Use Teflon tape for all threaded plumbing connections



If leakage, make sure the PTC connections are completely inserted



3. c) Machine Installation

Instructions (2/3) – Key elements of external plumbing kit



3. c) Machine Installation Instructions (3/3) – External setup example

On the right, how the connected set up might look like:

- Fresh water inlet with ¾" tube
- 2 Optional: T-connector with purge valve [not required]
- 3 Water hammer arrestor with ³/₈" PTC adapter
- A 3M filter with two ¾" push to connect adapters
- 5 ¾" hose for water inlet to system
- 6 1" standard drain hose
- 7 Sanitizer bottle
- 8 Sanitizer tube
- 9 Power cord



3. d) Machine Start-up Checklist

1. Verify machine is set up correctly with all connections in place:

- smoodi blender is set-up on even counter
- Drain tube is attached and has steady downward slope (no risk of pooling of water in the tube!)
- Sanitizer bottle is in place and connected to smoodi blender via tube

2. Turn on fresh water connection

- No leaks in external plumbing installation

3. Turn on machine (see picture on the right) and verify that:

- smoodi blender boots in less than 2 min, you should see the following screen after booting:
- You see lights turn on around the smoodi logo on the front service door as well as on the cylindrical tube door
- Screen turned on
- **NO** yellow thunderbolt sign on screen (that would signal low voltage issue)
- Barcode scanner lights up in red after machine is turned on

3. Run Calibration via service menu (wait until finished) - see step Calibration (section 4.b)

4. Run Cleaning, Prime Pump and Sanitization subsequently via service menu - see Access Service Menu (section 4.a)

Only after confirming with smoodi support team: 5. Connect Wi-Fi and run Software update via service menu – see step Update Latest Software and Connect to Wi-Fi (section 4.c and 4.f)

sure all external fresh water valves are open













4. Service Menu

4. a) Service Menu Access

The service menu can be accessed during the idle state of the machine, that's one of the following screens





2 To access the service menu – you'll need to sequentially tap and release three areas of the screen as follows:



3 Once the passcode page appears, enter the secret access code: 2 3 1







4. b) Calibration of Machine

PART I: OPEN SERVICE MENU



Open the hidden **SERVICE MENU** by tapping and releasing on each of the three corners of the screen in the order highlighted below on the idle / home screens.



Passcode page will appear – enter access code: 2 3 1



PART II: RUN CALIBRATION





button: calibration of the mechanical drive system will

IMPORTANT: Please do not obstruct process by standing back. Do not touch the tube door or insert a cup or any other foreign object. The calibration of the mechanical drive side will take 2 min.

Press **Calibrate Cup** button: calibration of the cup and seal sensors will start automatically – please follow instructions on the screen.



You will be asked to insert a cup with seal on, please make sure you have one at hand.

Once calibration cycle is completed you can press the home button to return to the idle / home machine screen.

4. c) Update Latest Software

PART I: OPEN SERVICE MENU

1

Open the hidden **SERVICE MENU** by tapping and releasing on each of the three corners of the screen in the order highlighted below on the idle / home screens.

 FRESH & HEALTHY

 IN LESS THAN 1 MIN

 IN L



PART II: UPDATE SOFTWARE

Make sure stable internet connection is established. Press **Exit UI** button and review internet connectivity on top right corner of home screen. If not connected check instructions under connect Wi-Fi. You will have to reboot the machine to return to the service menu via the instructions on the right.

Press **Update Software** button: software update will start automatically.



IMPORTANT: Please only run update software after consulting with smoodi support team

Press Reboot Machine

after the software update is completed.
4. d) Run System Diagnosis

PART I: OPEN SERVICE

MENU

Open the hidden **SERVICE** MENU by tapping and releasing on each of the three corners of the screen in the order highlighted below on the idle / home screens.





Passcode page will appear –

Press Get Status button and then Run Get Status until it completes the lognosis. Image: Status Status

Make sure all values in Get Status summary are passes (in green). If any red values appear, please email a screenshot to your smoodi support team.

- 5 You ca
 - You can run a similar test for the limit switches by tapping Limit Switch test



4. e) Additional Service Menu Functions



4. f) Connect to Wifi

PART I: OPEN SERVICE

MENU

Open the hidden SERVICE MENU by tapping and releasing on each of the three corners of the screen in the order highlighted below on the idle / home screens.





PART II: CONNECT WI-FI

Press **Exit UI** button in Service Menu. Service Menu screen will disappear.

Press 🔀 button on the top task bar and select the correct Wi-Fi name from the list of Wi-Fi.



Enter the password using the on-screen keyboard.



You can hide characters by deselecting hide character option. Press "OK". Make sure 📉 button turns to 🛜 If not, repeat this step.



Press the Start Menu icon 🐞 in top left corner and select "Reboot".



5. Regular Maintenance

5. a) Daily Routine

□ Sanitize all surface with spray bottle & wipe them down with soft, non-scratching cleaning cloth











□ Restock freezer with smoothie medleys and check remaining stock, if low, reorder!



□ Refill straws – ideally custom smoodi bamboo straws.





5. b) Monthly Maintenance

- □ Run weekly maintenance routine
- Remove and clean the blender bell wiper (see instructions in section 7.b)
- Remove, clean, and sanitize the cup basin cover (see instructions in section 7.d)
- Unscrew, remove and clean & sanitize the tube door (see instructions in section 7.f)
- Sanitize the area of the cupholder underneath that silicon cup basin cover when removed.
- Ensure sanitization cycle was run daily (runs by default automatically every 24h but can be adjusted) logging of daily sanitizations will be added as a new feature to Service Menu soon.
- □ Ensure the freezer temperature is between **0°F to 8°F** (it should be set to 0°F but can temporarily increase due to opening of the door, e.g. during restocking). Ideally make sure to test the temperature before restocking the freezer with cups.



5. d) Water Filter Replacement

1. Slowly turn 3M Filter cartridge to the left



2. Remove cartridge and insert new cartridge



Full video instructions from 3M: <u>https://www.youtube.com/watch?v=sQ55MsbbVH4</u>

5. e) Sanitizer Replacement

To be done when sanitizer canister is almost empty, generally after ~5 months (if smoodi system is set to automatically sanitize in 24 hr intervals).

- 1. Remove sanitizer tube (optionally with check valve) from (almost) empty sanitizer canister. Ideally keep cap in place so it can be reused with new sanitizer bottle.
- 2. Open new sanitizer and fill with remaining liquid of previous one.
- 3. Replace tap of new canister with the one from the empty canister that already has the required holes in it (one for the sanitizer, one for air to pass)
- 4. Position new sanitizer tank in same position as previous one
- 5. Make sure sanitizer tube goes all the way to the bottom on the inside of the sanitizer tank
- 6. Go into service menu and press Load Sanitizer button followed by a sanitization sequence. Make sure there are bubbles during the final sanitization. If no bubbles visible repeat the same process.



6. Cleaning and Sanitization

6. a) Automatic cleaning and sanitization

smoodi system is performing a 25 seconds **rinse / clean cycle** after each blend by a user. In addition, it will run the cleaning procedure whenever a started blend is abandoned, e.g. If no cup is inserted after scanning a barcode or in case the user removes the cup again before the door fully closes for blending. This is to prevent any health and safety risk that might be introduced from the outside when the tube door is opened.

In addition, the smoodi system is by default set to **automatically sanitize** every 24 hours. It takes ~3min to complete and is crucial for the proper operation of the smoodi machine.



Please ensure sanitization frequency of your system is in line with national, state & local codes. You can contact the smoodi support team any time to adjust the sanitization frequency on your smoodi blender.

6. b) Run Manual Cleaning

PART I: OPEN SERVICE MENU -

Open the hidden **SERVICE MENU** by tapping and releasing on each of the three corners of the screen in the order highlighted below on the idle / home screens



2 Passcode page will appear – enter access code: 2 3 1





6. c) Run Manual Sanitization

PART I: OPEN SERVICE MENU

1

Open the hidden **SERVICE MENU** by tapping and releasing on each of the three corners of the screen in the order highlighted below on the idle / home screens





Passcode page will appear – enter access code: 2 3 1



- PART II: RUN SANITIZATION





tances to minutes to the tain spray are the cavity with sanitizer, wait for 90 seconds for it to work and then finally rinse it off completely



IMPORTANT: If you just set up the machine or replaced the sanitizer bottle, you will need to prime the pump and water tubes first, to do so, within the service menu, press

Load Sanitizer

button: it will make sure sanitizer is in the sanitizer line, you should see foam in the cup holder, takes roughly 1 min.



7. Core Servicing Procedures

7. Servicing Procedures a) Install Blender Bell Wiper

- Access Service Menu (Section 4.a).
- 2 Press and Release Replace Blender Wiper Herlace Blender Wiper button. Tube door will raise, and blender will stick out slightly so that you have full access to the blender bell wiper.
- ³ Place blender bell wiper gently into mating slots at the bottom of blender assembly. Ideally start from one side and bend it over. The flexible silicon material will allow you to nicely install the blender bell wiper without force.
- Make sure to press the blender bell wiper all the way in with your fingers, there should not be any bump when moving your finger between blender sheath and the blender bell wiper.
- Return to Home Scree on top left of Service Menu. System will automatically move into home position.





7. Servicing Procedures b) Remove Blender Bell Wiper

Access Service Menu (Section 4.a).

- Press and release Replace Blender Wiper **PEPLACE BLENDER WIPER** button. Tube door will raise and blender will be stick out slightly so that you have full access to the blender bell wiper.
- 3 Remove the blender bell wiper gently by slightly pulling it downwards starting from one side. The flexible silicon material will allow you to remove the blender bell wiper without force.
- A Rinse, clean with dish soap and sanitize the blender bell wiper before installing it back on the machine. Make sure to dry it before installing it back.
- Review the blender bell wiper mounting slots, if necessary clean with towel or brush.
- ⁶ Use sanitizer spray bottle to sanitize the blender bell wiper mounting interface from all sides and let it rest for at least 90 seconds, then dry it before installing the blender bell wiper again.



7. Servicing Procedures c) Install Cup Basin Cover

Access Service Menu (Section 4.a)

Make sure blender is raised, otherwise press and release Raise Blender **MAISE BLENDER** button.

sealed

- Press and Release Door Open will open button. Tube door will open so that you have full access to the cup basin cover.
- Place silicon cover gently on cupholder by starting from one side. The flexible silicon material will allow you to install the cup basin cover without strong force.
- Make sure the basin cover snaps in place from all sides.
- Press onto the inner part of the cover and make sure it engages with its mating feature on the cupholder. You will feel how it nicely snaps in place. This last steps is crucial to ensure a nice seal between cupholder and basin cover to avoid liquids entering the interface between the two.



Press both green silicon parts (blender wiper and cup basin cover) on both sides in all 360 degrees in a needing motion to make sure they are fully installed and



7. Servicing Procedures d) Remove Cup Basin Cover



- Access Service Menu (Section 4.a).
- Make sure blender is raised, otherwise press and release Raise Blender RAISE BLENDER button.
- Press and Release Door Open will open button. Tube door will open so that you have full access to the cup basin cover.
- 4 Remove silicon cup cover gently by slightly pulling it upwards starting from one side. The flexible silicon material will allow you to remove the cover without strong force.
- 5
 - Rinse, clean with soap and sanitize the cup basin cover before installing it back on the machine
 - Review cupholder interface and slots, if necessary clean with towel or brush
 - Use sanitizer spray bottle to sanitize the cup basin cover mounting interface from all sides and let it rest for at least 90 seconds, then dry it before installing the cover again.



7. Servicing Procedures e) Install Tube Door

Make sure pins line up, and screw thumb screws tightly, otherwise door might fall out when either of those previous conditions are not fully met.

- Ensure blender bell wiper is removed (see instructions on section 12.e), as well as the removable skin cover.
- Open Front Service Door by unlocking it via the key on the top right of the machine
- Make sure blender assembly is in top position. Otherwise access Service Menu (Section 4.a), press and release Change Door button. Tube door will open and blender will raise to top position, if not there already
- Place tube door diagonally to pass blender and then gently raise vertically. Make sure small hole is in front and L-locking feature is in the back.
- Push tube door gently upwards until it sits nicely in the tube door holder. You will not need to apply strong force, be careful with the two limit switches that monitor if tube door has been properly installed; Tip: In order to engage the L-locking feature (safety pin) in the back you want to make sure that the small hole in the front is not in the exact middle position, but slightly oriented to the left when looking at the tube door frontally. Once you got the pin into the L-locking feature, push the tube door all the way up and then rotate slightly counter-clock-wise when looking at it from the top until locked in place with safety pin. The hole in front of the tube door will be exactly in the middle position.
- Once door sits tight, add the tube door holder bracket. You will need to place the small pin into the matching hole in the front service door.
- Screw both black thumbscrews in to fix the tube door bracket
- Slide removable skin cover into slots in front of tube door to fully cover the inside of the machine
- Exit Service Menu. Door will close automatically, and system will return into home position.







f) Remove Tube Door Access Service Menu (Section 4.a).

7. Servicing Procedures

- Press and Release Change Door CHANGE DOOR button to ensure blender and door are at the top travel positions.
- Open Front Service Door by unlocking the door with the key that was provided. The lock is located on the top right corner. After unlocking just slightly push and gently open the service door.
- Remove skin part in front of tube door to allow free access to the tube door.
- Unscrew both black thumbscrews from blender strap/bracket and remove from tube door.
- Remove blender bell wiper for better access.

8

- Gently rotate tube door clockwise if you were to look on it from above. This will allow the hook feature in the back of the tube door to disengage from the pin that locks it in place.
- Pull tube door down until it rests on the cup holder- should happen easily, do not apply strong force. If trouble removing it check again previous step to ensure tube door can travel in vertical direction.
- In order to remove the door fully, please gently tilt the door forward to let it pass the blender. The blender contains a spring at the bottom and will be pushed up as the door is tilted forwards and pulled out of its position.
 - Rinse, clean with dish soap and/or sanitize, and dry the tube door to place back in the machine.











7. Servicing Procedures g) Install Blade

- Access the Service Menu (Section 4.a)
- 2 Select replace blender wiper option REPLACE BLENDER WIPER
- ³ Push bottom part of the blender up to reveal the blade holder (with little force)
- A pin in the blender shaft secures the blade in place. Make sure it is facing you when positioning the blade.
- ³ Push the blade up the blender shaft and position it where the pin is aligned with the left side of the top opening of the blade. (Tip: pin needs to be as close as possible to the left side of the opening to ensure it does not come out of the blender)





7. Servicing Procedures h) Remove Blade

- Access the Service Menu (Section 4.a)
- Select replace blender wiper option REPLACE BLENDER WIPER
- ³ Push up vertically the bottom part of the blender to reveal the blade (with little force)
- A pin in the blender shaft secures the blade in place. To release blade, pull slightly downwards and counterclockwise during that downward motion. It will allow the blade the get around the pin in the blender shaft.





7. Servicing Procedures i) Open Side Panel

- There is a middle screw on the back of each side panel. To slide open each side, unscrew first.
- 2 On each end of the side panels, there are two circular holes placed. Insert thumbs in each hole and push/slide to the side to release the panel.
- Once the side panel is released from its locks, move slightly down to finish releasing the door.



7. Servicing Procedures j) Close/Install Side Panel

- Each side panel has lock features that fit in with holes in the machine. Make sure they are aligned before placing cover.
- 2 Start sliding backwards, ensuring the side panel is locking with the lock features.
- Once they are all locked into place, push up vertically to finishing locking the side panel in place.



7. Servicing Procedures k) Sanitizing Cycle

Once the sanitizer has been sprayed all over the blender bell, tube door and cup holder, the system will not move for 90 seconds before rinsing it off. Please wait until the full sanitization is finished.

- When touching any internal part of the smoodi machine (inside the Tube Door), a sanitizing cycle must be performed:
 - 1. When cleaning the Tube Door
 - 2. When replacing the Blade
 - 3. When cleaning the Silicon Cover on Cup Holder
 - 4. When cleaning the Blender Bell Wiper
- 2 Access Service Menu (Section 4.a).
- MAKE SURE TUBE DOOR IS CLOSED BEFORE STARTING CLEANING CYCLE.
- 4 Select Sanitize surger button.
- ⁵ Process takes around 1:30 min. When finished, click Reboot Machine **Boot Machine** button.

7. Servicing Procedures I) Disconnecting the smoodi Machine - Option 1

1 Purge blender

- 1. Close shutoff valve in external plumbing
- 2. Access Service Menu (section 4.a)
- 3. Select Toggle Fill [] button
- 2 Turn off machine via soft shutdown. If it doesn't work, use hard shutdown via switch in the back of machine.





Make sure to open the shut off valve again after the servicing procedures if system is working again.

7. Servicing Procedures I) Disconnecting the smoodi Machine - Option 2

1 Purge blender

- 1. Close shutoff valve in external plumbing
- 2. Access Service Menu (section 4.a)
- 3. Select Toggle Fill [] button
- 2 Turn off machine via soft shutdown. The soft shutdown is used to shutdown the machine before turning off power from the machine. Press will button two times.



7. Servicing Procedures I) Disconnecting the smoodi Machine - Option 2

Press the button to minimize the keyboard. Press the start menu sicon as shown in the image below. Click shutdown option.



Press the shutdown button as shown in image below. A Please wait for 30 seconds before turning off power from machine.



7. Servicing Procedures m) Install Blender

Access the Service Menu (Section 4.a)

2

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Make sure water line connection is closed for this step. Blender will need to be connected to the water line.

- For placing the blender back on the machine, make sure the tube door is in Home Position (completely closed) and ensure the blender support is not all the way to top touching the top cover. You can control the blender support position by selecting "Lower Blender" or "Raise Blender" from the Service Menu.
- Once the blender support is in the desired position (3-5 inches below the top position), grab the blender with the water and electrical wires facing you.
- Place the blender back into the blender support and gently rotate clockwise 90 degrees for water and electrical wires to face left when facing the machine. Water tube of the blender assembly needs to be in the back once placed in the blender holder brackets.
- From the Service Menu, select Lower Blender Lower Blender button to position the blender at a position that is accessible to connect back the water and electrical wire, plus the 4 blender screws.
- Connect water wire and add blue retention clip (Tip: You'll feel when the wire has reached the end)
- Connect electrical wire (Tip: It needs to click with the security pin from the other end)
- Tightly screw in the 4 screws on top of the blender to firmly attach it to the blender brackets.
- From the Service Menu, select Replace blender Wiper REPLACE BLENDER WIPER button to place back blender bell wiper and silicon cup basin cover.
- Select Home Position HOME POSITIO
- Select Toggle Blend button to make sure blender electrical wire was correctly installed
- Select Toggle Fill Fill button to make sure there's no water leaking
- Once everything is verified, select Sanitize
- When sanitization process is completed, reboot the machine.





7. Servicing Procedures n) Remove Blender Make sure that the water value is fully

- Close manually the water valve
- Access the Service Menu (Section 4.a)
- 3 Select toggle fill [[]] to release all water pressure inside the machine
- Once you see no water coming out, select replace blender wiper REPLACE BLENDER WIPER
- Remove blender bell wiper for easier control
- 6 Select Door Close button and make sure tube door is placed in Home Position (closed)

closed and that all water pressure has been released before disconnecting the

water line from the blender.

- ⁷ Select Lower Blender ^{LOWER BLENDER} button and drive down blender to make sure the position is accessible to take off screws from the top (3-5 inches below the top position).
- 8 Unscrew 4 blender screws from the top

10

11

- Once all screws have been removed, shut down the machine and unplug the electrical wire.
- Disconnect the water and electrical wire from the top of the blender.
- Rotate the blender counterclockwise 90 degrees and gently tilt to the front to get the blender out of the blender brackets.





7. Servicing Procedures o) Access Electronics Box by removing Back Panel

Preparation:

- Remove the cosmetic case in the back of the machine
- 2 Shut off machine and unplug the power cord
- 3 Remove the water filter from the back of the machine

Opening the back panel:

- 4 Unscrew the 6 M6 screws that attach the back panel to the machine
- 5 Slightly slide the back panel upwards; Tip: use the two bends at the bottom of the back panel
- Once you released the back panel from the retaining hook on the bottom you can pull it slightly towards you and then pull downwards. The back panel will come out right away





7. Servicing Procedures p) Installing the Back Panel



Make sure smoodi machine is turned off before accessing the electronics box. For shutting off the machine, please refer to section 7.l.



- Slide top of the back panel upwards under the top skin cover
- 2 Orient the back panel vertically
- Push downwards so that it connects with the hocking feature in the base plate
- Orient the back panel so that all screw holes align
- 5 Screw in all 6 screws to fix the back panel

Reconnecting the machine

- Connect power cord
- 7 Attach water filter
- 8 Turn machine on
- Install cosmetic cover over the back

7. Servicing Procedures q) Removing a PTC Water Tube

Required when removing a machine completely.

- Close shutoff valve upstream of blender inlet
- 2 Purge to release pressure from respective water line.
 - 1. Access Service Menu (section 4.a)
 - 2. Select Toggle Fill 🕮 button until no water comes out
- Push in plastic ring
- Pull out tube while still pushing in the plastic ring

If you can't execute all the above steps and remove the tube for any reason, you can always cut the tube.



Removing PTC connections generally does not require a lot of force. If you feel you are applying force, please revisit the above instructions.







8. Troubleshooting

8. a) Troubleshooting Symptoms

Symptom	Possible Cause	Corrective Action
smoodi Machine is not turning on	Power cord unplugged?	Yes - Plug in power cord. No - Verify power by plugging in a different item and validating if it turns ON.
	Main power switch off?	Yes - Turn on main power switch. No - Verify power by plugging in a different item and validating if it turns ON.
Display screen is off	Screen displays a green light on the back of the Service Door?	Yes - Hard reboot the machine. No - Click the gray button on the bottom of the screen (inside the Service Door) until green light is back on.
	HDMI cable unplugged?	Yes - Plug HDMI cable. No - Check that the screen is on (green light on the bottom of the screen)
smoodi Machine is not initiating blending process ("Discard cup")	Tube door is correctly positioned?	Yes - Continue troubleshooting. No - Place back the tube door and fix with screws and tube door bracket (see section 7.b)
smoodi Machine is not blending	Water connection open?	Yes - Continue troubleshooting. No - Open water connection and ensure everything is correctly plugged into the machine.
	Blade is turning?	Yes - Continue troubleshooting. No - Revise that blender shaft is still attached to blender.
	Blender plugged to the electrical wire?	Yes - Revise that blender shaft is still attached to blender. No - Plug in correctly electrical wire (Make sure machine is turned off before plugging any electrical wires!)
smoodi Machine is stuck in a process	Stuck on "Place Cup" step	Soft reboot.
	Stuck on "Cleaning" process	Soft reboot.
	Stuck on "Sanitizing" process	Soft reboot.
smoodi Machine sensors	Not detecting seal?	Make sure machine is calibrated.
	Not detecting cup inside the machine?	Make sure machine is calibrated. Check the cup sensors.

8. b) Troubleshooting Tips Soft Reboot

Soft rebooting allows to reset the system and can be used if the system should get stuck in a certain screen or task.



Tap and release on each of the locations indicated in the picture below (generally in the middle of each lateral). Please follow the indicated order.



8. b) Troubleshooting Tips Soft Shut Down - Option 1

Soft shut down allows to turn off the system without having to access the back of the machine for the turn on/off switch.



Tap and release on each of the locations indicated in the picture below (generally in the middle of each lateral). Please follow the indicated order.


8. b) Troubleshooting Tips Soft Shut Down - Option 2

Soft shut down allows to turn off the system without having to access the back of the machine for the turn on/off switch.





2 Press the button to minimize the keyboard. Press the start menu 🛎 icon as shown in the image below. Click shutdown option.



8. b) Troubleshooting Tips Soft Shut Down - Option 2

3

Press the shutdown button as shown in image below. APlease wait for 30 seconds before turning off power from machine.



8. b) Troubleshooting Tips Hard Reboot



Hard rebooting turns off completely the smoodi Machine.

- 1
- The on/off switch is located at the back of the machine (see image).
- 2 To do a hard reboot, turn off the machine with the back switch.
- 3 Wait 20 seconds before turning the machine back on with the same back switch.



Machine will turn back on.



8. c) Servicing Kit

IMAGE	ITEM NO.	ITEM	WHERE TO BUY	IMAGE	ITEM NO.	ITEM	WHERE TO BUY
	1	Toolbox	Amazon - <u>Click Here</u>	1. C. C.	7	Tube cutter	Amazon - <u>Click Here</u>
V V	2	Multi-Tool	Amazon - <u>Click Here</u>		8	Wire strippers	Amazon - <u>Click Here</u>
S.	3	Multi-head screw driver	Amazon - <u>Click Here</u>		9	Monkey Wrench	Amazon - <u>Click Here</u>
	4	Hex key set	Amazon - <u>Click Here</u>		10	Cleaning brush	Amazon - <u>Click Here</u>
	5	Multimeter	Amazon - <u>Click Here</u>		11	Measuringtape	Amazon - <u>Click Here</u>
	6	Keyboard	Amazon - <u>Click Here</u>		12	Spare Machine Key	Will be provided by smoodi

9. smoodi Servicing Plan

9. a) Scope of Servicing

The smoodi servicing plan includes parts and labor as long as the damage was not due to gross negligent behavior of a user, operator or owner of the equipment.

smoodi further provides water filter and sanitizer replacements to ensure continued operation of the system without any downtime and hassle.

For additional questions regarding your servicing plan, please reach out to your regional service contact at smoodi (see next page). We are happy to assist!

9. b) Service Contact

smoodi service contacts are organized by region:

Northeast: +1 857 498 0221<u>monica@getsmoodi.com</u>

□ Central US, Mid Atlantic and Southeast: +1 603 252 9109 <u>morgan@getsmoodi.com</u>

West Coast (incl Hawaii): +1 617 795 6445
<u>pascal@getsmoodi.com</u>

Outside of the US: +1 704 819 9248
<u>bhavin@getsmoodi.com</u>

9. c) Additional Resources and Supply Links



SANITIZER:

Glissen Chemical - 300048 Nu-Foamicide EPA Registered 1-Gal All Purpose Cleaner Concentrate, Industrial Commercial Grade

Purchase link



WATER FILTER:

3M Water Filtration Products HF95-CL High Flow Series Replacement Water Filter Cartridge - 5 Micron Rating and 2.5 GPM

<u>Purchase link</u>

10. Machine Spare Parts List

- Wear Strips
- Linear Actuator
- Blender Assembly
- Blender blades
- Tube Door
- Tube Strap
- Cup basin cover
- □ Blender bell wiper
- □ Service Door Lances (Male and Female)
- Barcode Scanner

- Cup Sensors
- 🗅 Camera
- □ TOF10120 Distance Sensors
- Raspberry Pi
- □ Flashed SD Card
- Flashed Arduino
- \Box Fuses \rightarrow Detail fuses
- Service Door Key
- □ Screen
- Limit switches
- **Fuses**

IMAG E	ITEM NO.	FILE NAME	DESCRIPTION	IMAGE	ITEM NO.	FILE NAME	DESCRIPTION
	1.1.2.4	Limit_Switch			1.2.2	Barcode_Scanner	SELECT 80cm USB CABLE LENGTH
	1.1.3	Linear Actuator	Linear Actuator - LA-J-POT 12V, 305mm stroke, 58 mm/sec with custom 284506-5 connector	0	1.4.6	Cup Holder Silicone Cover	
	1.1.4.3	Service Door Lance (Female)	NOT SPECIFIED		1.4.7.1	Cup Sensor Receiver	
 0	1.10.5	Service Door Lance (Male)	NOT SPECIFIED		1.4.8.1	Cup Sensor Emitter	
	1.1.8.3	Wear Strip		۲	1.5.2.1	Camera	
	1.1.9.6.11	TUBE DOOR	NOT SPECIFIED		1.5.2.2	TOF1020 Distance Sernsor	
0000	1.1.9.6.12	TUBE STRAP			1.10.3	SD10 - Touchsscreen-00	SCREEN

IMAG	E	ΠΕΜ ΝΟ.	FILE NAME	DESCRIPTION	IMAG E	ΠΕΜ ΝΟ.	FILE NAME	DESCRIPTION
		2.2.1	Pressure Regulator P60-M1			4.1	PCB, RPi4ModelB	
		2.3	Sanitizer Pump	Peristaltic Pump - HPP-12-100-ZA-4- SW, Santoprene 271-73 peristaltic tube, Barbed fitting for 1/4"(ID) external tube, 480mm(L) power	32 _{G8}	4.2	Flashed SD card	32 GB microSD UHS-I
				wire with 2 pins connector TE 1586019-2 or equivalent		4.3	R-PI FAN	RASPBERRY PI COOLING FAN
R.		2.4.2	Solenoid_Valve	Solenoid Valve - Custom electrical lead orientation		5.2	PROGRAMMED ARD UINO	
Ĵ		3	BL - Blender		•••	5.4	FUSE 10A	10ABLADE FUSE
0		3.2.4.1	BLENDER WIPER	NOT SPECIFIED	*	5.5	FUSE 5A	5A BLADE FUSE
to		3.3.1	SHAFT & BLADE	BLADE	*	5.6	FUSE 7.5A	7.5ABLADE FUSE

IMAGE	ITEM NO.	FILE NAME	DESCRIPTION
*	5.7	FUSE 3A	3A BLADE FUSE
	5.8	C9	CABLE C9 - FILL VALVE
	5.9	C10	CABLE C10 - CLEAN VALVE
	5.1	C36	CABLE C36 (ARDUINO USB)
and the second s	6	CERAMIC FUSE 2.5A	2.5A CERAMIC FUSE
and the second s	7	CERAMIC FUSE 5A	5A CERAMIC FUSE

11. Appendix



BRAIN BOOST Strawberry, Blackberry, Raspberry, Banana



TROPICAL VIBES Pineapple, Mango, Coconut



GREEN ENERGIZER Spinach, Matcha, Mango, Banana

CUPS		6 72975 36584 4	6 72975 36582 0	6 72975 36580 6
CASES	Smotoli Smith 200	6 72975 36585 1	6 72975 36583 7	6 72975 36581 3

BRAIN BOOST Strawberry, Blackberry, Raspberry, Banana **TROPICAL VIBES** Pineapple, Mango, Coconut **GREEN ENERGIZER** Spinach, Matcha, Mango, Banana

Layout (L x W x H): 40 cm x 30 cm x 15 cm

(considering folding on corners)





543

Content: 12 cups (16oz) per case Weight per case: ~2.5kg





11. b) smoodi Accessories Freezer



	Smoodi Machine	Freezer
(W \times L \times H):	10.5" × 19.5" × 32.5"	27.9" × 30.5" × 32.5"
Weight:	60 lbs	136 lbs
Color:	White	White
Capacity:	30 smoodis / hour	198L / 84 smoodi cups



11. b) smoodi Accessories Bamboo Straws

100% natural, organic, biodegradable and reusable Bamboo straws

12mm diameter, individually paper wrapped, smoodi logo engraved

60 straws in one box,

12 boxes in one cardboard case (720 straws)

MOQ: 10 cases Landed cost per box (60 straws): \$15.67 Lead time: 40 days (ocean freight)







11. b) smoodi Accessories Bamboo Straws







PRODUCT NAME : Bamboo Straw QTY: 720 STRAWS (12 BOXES / CTN, 60 STRAWS / BOX) N.W: 6.6KG/CTN G.W: 7.2KG CARTON SIZE: 46.5x36x27 CM





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ITEM NO.	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART	QTY.
1	Blender stopper gasket (1,5mm)		Silicon		1576	1
2	Blender Stopper		3D printed nylon	А	16-6413	1



SECTION A-A









	Ť			PROJECT	UNLESS OTHERWISE SPECIFIED	TITLE:	lender Stopper wit	h Gasket
NOTES:	A		21.09.2021	MATL -	ALL DIMENSIONS ARE IN mm	SIZE CM PART NO.		REV
1. COMBINE PARTS USING ADHESIVE.	REV	DESCRIPTION	DATE	GAUGE	TWO PLACE DECIMAL: +/- 0.15mm	В	16-6413	97 A
		LAST SAVED BY: P. JANUSZKIEV	VICZ	REF. THICKNESS	THREE PLACE DECIMAL: +/-0.09mm	SCALE: 1	1 PROJECTION:	SHEET 1 OF 1

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			ITEM NO	D. SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
		A	1	FR02.05.1 - Blender Carriage	3000-013	AISI 304	I		1
		_	2	Blender Carriage Upper Actuator Mount	3000-018	AISI 304	A	15-6952	1
		2	3	Wear Strip	4000-050	Nylon 101	С	16-6438	2
			4	TOK_Bearing	7000-029	Nylon 101	A	61-6037	8
9	$\begin{array}{ccc} 7\\ 1\\ \end{array}$ $\begin{array}{ccc} 9\\ 3\\ \end{array}$ $\begin{array}{cccc} 10\\ 2\\ \end{array}$ $\begin{array}{ccccc} 5\\ 2\\ \end{array}$		5	7000-011-Rubber-Feet-01	7000-011	Material <not specified></not 	A	17-7328	2
2			6	FR05 -Right Blender Mount			E	15-6983	1
U	a° m	F 40	7	FR06 - Left Blender Mount			G	15-6961	1
Ň		$\left(\frac{3}{2}\right)$	8	M6 x 8 - FLANGED BUTTON HEAD SCREW	90909A418	Material <not specified></not 	-	-	15
Ā			9	Limit_Switch	8000-049	Material <not specified></not 	A	'10-4116	3
O			10	M3 x 35 - Button Head Hex Drive Screw - 92095A201	92095A201	18-8 Stainless Steel	in:	TH-20-30- 35	2
) smoodi Mac er Carriage Assembly			A						
udé.			,]			TITLE			
• •		B COMPONENT UPDATE 06.12.2021	PROJECT	UNLESS OTHERWISI	SPECIFIED	Blen	der Carriag	e Assembly	js.
	NOTES:	A 03.09.2021	MATL	ALL DIMENSIONS	ARE IN mm	SIZE CM P	ART NO.	Ĺ	REV
	 BEFORE ASSEMBLY ENSURE THAT ALL INSERTS ARE FIXED PROPERLY. USE LOCTITE BLUE FOR THREADED CONNECTIONS. 	REV DESCRIPTION DATE	GAUGE	ONE PLACE DECIMA TWO PLACE DECIMA	L: +/- 0.5mm L: +/- 0.15mm	B ^{BL}	ENDER CAR ASSEMBI	RIAGE 99	C
		LAST SAVED BY: P. JANUSZKIEWICZ	REF. THI	CKNESS THREE PLACE DECIM	AL: +/-0.03mm	SCALE: 1:5	PROJECTION: (€ SHEET	1 OF 1





ITEM NO.	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
1	FR01 - Base			D	100	1
2	7000-011-Rubber-Feet-01	7000-011	Materiał <nieokreślo ny></nieokreślo 	٨	17-7328	6
3	M6 x 10 - Socket Head Cap Screw	91292A441	Alloy Steel	(1)	TH-20-60- 10	1
4	Base Tray	3000-038	AISI 304	В	15-6962	1
5	FR02 - Lift Tower			A	FR02 - LIFT TOWER	1
6	Linear Actuator	1000-016			33-1942	2
7	FR03 - Right Side Frame				363	1
8	FRO4 - Left Side Frame			С	120	1
9	Energy Chain	5000-030	Nylon 101	А	61-6036	2
10	Actuator Pin		Materiał <nieokreślo ny></nieokreślo 		19-1185	4
11	Blender Carriage Assembly			с	BLENDER CARRIAGE ASSEMBLY	1
12	Tube Carriage Assembly			С	TUBE CARRIAGE ASSEMBLY	1
13	M4 x 8 - Flat Head Screw Hex Drive		18-8 Stainless Steel	,	-	28
14	M6 x 10 - PAN HEAD PHILLIPS MACHINE SCREW 316 SS - 90116A305			~		4





	THL	E:		
UNLESS OTHERWISE SPECIFIED			FR - Frame	
ALL DIMENSIONS ARE IN mm ONE PLACE DECIMAL: +/- 0.5mm TWO PLACE DECIMAL: +/- 0.15mm	SIZE B	CMI	part no. FR - FRAME	100 C
THREE PLACE DECIMAL: +/-0.03mm	SCALE:	1:10	PROJECTION:	SHEET 1 OF 1





Assembly oodi Machine Frame SB Side U Right





ITEM NO.	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
1	Right Side Frame As-built			В		1
1.1	right side structure	3000-020	AISI 304	F	15-6975	1
1.2	CLA-M6-1-PENNENGINEERING		Aluminum		-	6
1.3	CLS-M4-1-PENNENGINEERING		=	-	(m)	5
1.4	TD-60-6ZI-PENNENGINEERING		Zinc Plated Sintered Steel	1774	17	6
1.5	S-M3-1ZI-PennEngineering		Zinc Plated Heat- Treated Carbon Steel		-	6
1.6	A4-M3-1-PennEngineering			್	. . .	5
2	Limit_Switch	8000-049	Material <not specified></not 	A	'10-4116	۱
3	Service door Gasket 1		Brass		16-6443	1
4	Service Door Lance (Female)		Brass	В		1
5	M3 Hex Nut	91828A211	18-8 Stainless Steel	172	1.07	2
6	M3 x 15 - Flat Head Screw Hex Drive	92125A103	18-8 Stainless Steel		1	4

							TITLE:		
NOT	NOTES: 1. USE PEM INSERTS BY PENN ENGINEERING OR EQUIVALENT. 2. USE LOCTITE BLUE FOR THREADED CONNECTIONS. REV DESCRIPTION DATE GAUGE TWO PLA LAST SAVED BY: P. JANUSZKIEWICZ REF. THICKNESS	<i>#</i>			PROJECT	UNLESS OTHERWISE SPECIFIED	FR03 - Right Side Frame		
1. U				02.08.2021	MATL	ALL DIMENSIONS ARE IN mm	SIZE CM	1 PART NO.	REV
2.		TWO PLACE DECIMAL: +/- 0.15mm	в	1	102				
			LAST SAVED BY: P. JANUSZKIEWICZ	i	REF. THICKNESS	S THREE PLACE DECIMAL: 17-0.05mm	SCALE 1:	5 PROJECTION:	SHEET 1 OF 2

					ITEM NO	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
	$\begin{pmatrix} 4\\12 \end{pmatrix}$ $\begin{pmatrix} 12\\5 \end{pmatrix}$ $\begin{pmatrix} 14\\6 \end{pmatrix}$				1	Left Side Frame As-built	č.		В	-	1
e Frame					1.1	CLA-M6-1-PENNENGINEERING		Aluminum		-	8
				ITEM NO. SW-File Name(File Name) PartNo MATERIAL REVISION CM/ARET OT/L 1 Loft Sido Frame As built 8 - 1 1.1 CLA-M61-PENNENCINEERING Aluminum - - 8 1.2 A4-M3-1-PennEngineering 2/nc P/aled - - 5 1.3 S-M3-1ZI-PennEngineering 2/nc P/aled - - 6 1.3 S-M3-1ZI-PennEngineering 2/nc P/aled - - 6 1.4 ID-60-62I-PENNENGINEERING 2/nc P/aled - - 6 1.5 CL3-M4-1-PENNENGINEERING 2/nc P/aled - - - 1.4 Leff Side Structure 3000-021 AlSI 304 F 15-6974 1 2 Leff Side Structure Bracket Alsi 304 - 1 1 2.1 Leff Side Structure Bracket Alsi 304 - 1 2.1 Leff Side Structure Bracket Alsi 304 - 1 2.2 N10-M5-12							
					1.3	S-M3-12I-PennEngineering		Zinc Plated Heat- Treated Carbon Steel	-	(7)	10
		a		• 9	1.4	TD-60-6ZI-PENNENGINEERING		Zinc Plated Sintered Steel	a.	~	6
	$\begin{pmatrix} 22\\ 2 \end{pmatrix}$	a 9		9	1.5	CLS-M4-1-PENNENGINEERING		-	(2)	9448	5
7				2	1.6	Left Side Structure	3000-021	AISI 304	F	15-6974	1
ĺ.					2	Left Side Structure Bracket As- built			A	-	1
					2.1	Left Side Structure Bracket		AISI 304		~	1
			•		2.2	N10-M5-1ZLPEM		Zinc Plated Heat- Treated Carbon Steel	(a.):	20	2
					3	service door hinge	7000-099			15-6987	1
		•		e -	4	M3 x 6 - Flat Head Screw Hex Drive	92125A126	18-8 Stainless Steel		-	12
					5	M6 x 10 - PAN HEAD PHILLIPS MACHINE SCREW 316 SS - 90116A305			-		2
e e e] 。	6	Silicone Hinge Gasket	1	-	-	-	1
Side Frame							ļ				
: 4		С	ASSEMBLY STRUCTURE REARRANGED	03.01.2022	²⁰			TITLE:			
•		В	SCREW TYPE CHANGED	14.09.2021	PROJECT	UNLESS OTHERWIS	E SPECIFIED	FR	.04 - Left S	ide Frame	
	1. USE PEM INSERTS BY PENN ENGINEERING OR EQUIVALENT.	2		02.09.2021	MATL	ALL DIMENSIONS	ARE IN mm	SIZE CM PA	ART NO.		RE
	2. USE LOCITIFE BLUE FOR THREADED CONNECTIONS.	REV	DESCRIPTION	DATE	GAUGE	TWO PLACE DECIM	AL: +/- 0.15mm	В		10	E

LAST SAVED BY: P. JANUSZKIEWICZ

REF. THICKNESS

ssembly

oodi Machine A

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TWO PLACE DECIMAL: +/- 0.5mm TWO PLACE DECIMAL: +/- 0.15mm	B			103
THREE PLACE DECIVIAL: 17-0.03mm	SCALE:	1:5	PROJECTION:	SHEET 1 OF 2

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	ITEM NO.	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
A	1	FR02.04.1 - Carriage	3000-012	AISI 304	G		1
	2	TD 06- Tube Carriage Upper Actuator Mount	3000-017	AISI 304	В	15-6957	1
A	3	Wear Strip	4000-050	Nylon 101	С	16-6438	2
	4	TOK_Bearing	7000-029	Nylon 101	А	61-6037	8
	5	M6 x 8 - FLANGED BUTTON HEAD SCREW	90909A418	Material <not specified></not 	н	-	15
A	6	Tube Holder			А	TUBE HOLDER	1







LAST SAVED BY: P. JANUSZKIEWICZ			REF. THICKNESS		SCALE: 1.5 PROJECTION: OC SHEET 1 OF		
REV DESCRIPTION DATE		DATE	GAUGE	TWO PLACE DECIMAL: +/- 0.15mm THREE PLACE DECIMAL: +/- 0.03mm	B ASSEMBLY		
A 0		03.09.2021	MATL	ALL DIMENSIONS ARE IN mm	SIZE CM PART NO. REV		
			PROJECT	UNLESS OTHER WISE SPECIFIED	Tube Carriage Assembly		
в	COMPONENT UPDATE 06.12.2021				TITLE:		
с	COMPONENT UPDATE	13.01.2022	-				
c	COMPONENT UPDATE	13.01.2022					

NOTES: 1. BEFORE ASSEMBLY ENSURE THAT ALL INSERTS ARE FIXED PROPERLY.

2. USE LOCTITE BLUE FOR THREADED CONNECTIONS.

Assembly	
Machine A	
11. C) smoodi ube Holder	



NO.	SW-File Name(File Name)		PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
1	FR07.01 - Tube Mount Bracket		3000-029	AISI 304	E	0 12	1
.1	Tube Mount B	Bracket	3000-029	AISI 304	С	15-6953	1
.2	TD-60-6ZI-PEN	NENGINEERING		Zinc Plated Sintered Steel		-	1
.3	CLS-M4-1-PEN	INENGINEERING		5	953		2
.4	CLA-M6-1-PE	NNENGINEERING		Aluminum	-	-	8
.5	Dowel Pin 6 x	14 - 91585A624		18-8 Stainless Steel	NF.	-	1
2	FR07.02 - Tub	e Chain Bracket			G		1
2.1	Tube Chain B	racket	3000-037	AISI 304	E	15-6958	1
2.2	CLS-M4-1-PEN	NENGINEERING		÷.	(144)	1.2	3
3	Tube holder /	As-built	4000-053	3D printed Nylon	С	16-6429	1
4	LED Ring Mou	unt As-built	4000-026	3D Printed Nylon	A	16-6 <mark>41</mark> 8	1
5	LED Ring		<mark>8000-04</mark> 6	Material <not specified></not 	С	26- <mark>467</mark> 6	1
6	Limit_Switch		8000-049	Material <not specified></not 	A	<mark>'10-4116</mark>	2
7	7000-011-Rubber-Feet-01		7000-011	Material <not specified></not 	A	17-7328	2
8	M4 x 8 - Flat Head Screw Hex Drive			18-8 Stainless Steel			2
9	LED Ring Cap)		3D Printed Nylon		16-6417	1
10	plastic knurle head a gb (1	d screws with small)		-	12	17-7334	2
11	Tube Door			Polycarbon ate	В	16-6422	1
12	Tu <mark>be</mark> Strap			3D printed Nylon - Godart 8118	В	16-6427	Ĩ
13	M4 x 8 - Phillip Thread-Formi 99461A964	os Rounded Head ng Screw -	99461A964	18-8 Stainless Steel		5	6
14	M6 x 10 - Soc Screw	ket Head Cap	91292A441	Alloy Steel	2	TH-20-60- 10	2
15	M6 x 8 - FLANGED BUTTON HEAD SCREW		90909A418	Material <not specified></not 	12	2	2
16	M3 x 14 - Button Head Screw		92095A168	18-8 Stainless Steel		TH-21-30- 14	4
				TITLE:			
JECT UNLESS OTHERWISI			E SPECIFIED		Tube ho	lder	
L ALL DIMENSIONS ONE PLACE DECIMA		ARE IN mm AL: +/- 0.5mm	SIZE CM PA	IRT NO. UBE HOL	DER 10	REV 5A	
THE	THREE PLACE DECIMA		IAL: +/-0.03mm	SCALE 1.5 P	ROJECTION:	ad CHEFT	LOF
THICKNESS			1:5		SHEET	TOP	





CM PART QTY.

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15-6969

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26-4675

26-4674

26-4675

16-6411

16-6415

17-7333

16-6425

16-6414

15-6967

16-6414

6

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2

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REVISION

В

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c) smoodi Machine Assembly 11. Door





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ITEM NO.	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
1	Front Service Door As-built		-	A	-	1
1.1	Front Service Door	3000-068	AL 5052	В	15-6971	1
1.2	Corner Filler Plate	3000-070	5052-H32	D		4
1.3	S-M3-1ZI-PennEngineering		Zinc Plated Heat- Treated Carbon Steel		æ.:	6
1.4	FH4-M3-10-PennEngineering		5	17	51	8
1.5	TD-60-6ZI-PENNENGINEERING		Zinc Plated Sintered Steel	7	-	1
2	Logo Lens With Inserts		5	-	-	1
2.1	Logo_Letter_Insert	870	AL 5052	18	-	3
2.2	Logo Lens		ZY860A + 0.4% white color masterbact ch	В	16-6452	1
3	Logo LED	1	<u>a</u>	A	26-4677	1
4	4 SD10 - Touchsscreen-00		Materiał <nieokreślo ny></nieokreślo 	A	55-5777	1
5	Service Door Gasket		-	-	16-6443	2
6	Service Door Lance (Male)		Brass	В	-	1
7	Door-LCD-Gasket	-	ZY860A + 0.4% black color masterbatc h	С	16-6453	1
8	M3 x 6 - Flat Head Screw Hex Drive	92125A126	18-8 Stainless Steel		-	2
9	M3 - KNURLED NUT WITH COLLAR		-		15-6967	8
10	LED backing plate	0.000	AISI 304	Α	-	1

J	ITEM 10 ("LED BACKING PLATE") ADDED	29.03.2022						
1	SOME MATERIAL INFO UPDATED	12.01.2022			TITL	TTLE:		
н	ASSEMBLY STRUCTURE REARRANGED	03.01.2022	PROJECT	UNLESS OTHERWISE SPECIFIED			DO - Door	
G		02.09.2021	MATL	ALL DIMENSIONS ARE IN mm	SIZE	CM	PART NO.	REV
REV	DESCRIPTION	DATE	GAUGE	GAUGE TWO PLACE DECIMAL: +/- 0.3mm TWO PLACE DECIMAL: +/- 0.15mm			DO - DOOR	108
LAST SAVED BY: P. JANUSZKIEWICZ			REF. THICKNESS	THREE PLACE DECIMAL: +/-0.03mm		1:5	PROJECTION:	SHEET 1 OF 2

NOTES: 1. USE PEM INSERTS BY PENN ENGINEERING OR EQUIVALENT. 2. USE LOCTITE BLUE FOR THREADED CONNECTIONS.



ssembly 4 smoodi Machine





NOTES: 1. USE NSF APPROVED THREAD SEALANT ON ALL NPT FITTINGS.

ITEM NO.	SW-File Name(File Name)	Description	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY
1	Plumbing Plate			AISI 304	С	15-6948	1
2	1000-048-Regulator_Assembly				D	21-XXX3	1
2,1	Pressure Regulator P60-M1	7.	9000-041	Material <not specified></not 		52-1678	1
2.2	H - 9087K130_PUSH-TO-CONNECT FITTING FOR FOOD AND BEVERAGE	3/8" FPTC - 1/4" MNPT				53-4383	2
3	Sanitizer Pump	Peristaltic Pump	9000-056	Material <not specified></not 	120	52-1677	1
4	Solenoid_Valve_Subassembly						2
4.1	D - 9000-059-9087K140_PUSH-TO- CONNECT FITTING FOR FOOD AND BEVERAGE	3/8" FPTC - 3/8" MNPT	9000-059	Material <not specified></not 	283	53-4 <mark>3</mark> 74	2
4.2	Solenoid_Valve		9000-058	Material <not specified></not 		52-1679	1
5	M4 x 8 - Phillips Rounded Head Thread- Forming Screw - 99461A964	Phillips Rounded Head Thread-Forming Screws	99461A964	18-8 Stainless Steel		-	4
6	53-PL01	plumbing tube sub-assembly			-	53-PL01	1
6.1	Tube h	3/8" OD PEX tubing L=70mm		PEX	-	-	I.
6.2	Tube r	1/4" OD PEX tubing L=80mm		PEX	1		1
6.3	J - 9000-039-51175K136_PUSH-TO- CONNECT FITTING FOR DRINKING WATER 3-8 inch	1/4" FPTC - 3/8" FPTC 90° elbow	9000-039	Material <not specified></not 	150	53-4371	1
7	53-PL02	Plumbing Tube Sub Assembly		1	-	53-PL02	1
7.1	Tube i	3/8" OD PEX tubing L=60mm		PEX			I
7.2	Tube [3/8" OD PEX tubing L=60mm		PEX	(1 5 3)	-	1
7.3	G - 3-8in Y connector - 51055K148	3/8" FPTC Y-connector/juntion 3 way				53-4376	1
7.4	A - 9087K39_Push-to-Connect Fitting for Food and Beverage	Push-to-Connect Fitting for Food and Beverage	9087K39	94	-	53-4373	1
7.5	I - 3_8in Check Valve Push-in	3/8' FPTC check valve		-		53-4382	1
7.6	Tube d	3/8" OD PEX tubing L=230mm		PEX	~	10	1
8	53-PL03	plumbing tube sub-assembly		857	5 7 -2	53-PL03	1
B. 1	Tube c	3/8" OD PEX tubing L=60mm		PEX		Ξ.	1
8.2	Tube I	3/8" OD PEX tubing L=130mm		PEX	-	-	1
8.3	Tube b	3/8" OD PEX tubing L=75mm		PEX	1.70		1
8.4	C - 9000-027-9087K820_PUSH-TO- CONNECT FITTING FOR FOOD AND BEVERAGE	3/8" FPTC T-connector 3 way	9000-027	Material <not specified></not 	1(20)	53-4379	1
9	53-PL04	plumbing tube sub-assembly		1	-	53-PL04	1
9.1	Tube a	3/8" OD PEX tubing L=65mm		PEX	150	-	1
9.2	A - 9087K39_Push-to-Connect Fitting for Food and Beverage	Push-to-Connect Fitting for Food and Beverage	9087K39			53-4373	1

					TITLE:				
		[PROJECT	UNLESS OTHERWISE SPECIFIED		FS - Fluid Sy	stem		
A		29.12.2021	MATL	ALL DIMENSIONS ARE IN mm	SIZE	CM PART NO.	REV		
REV	DESCRIPTION	DATE	GAUGE	TWO PLACE DECIMAL: +/- 0.15mm	В	FS - FLUID SYS	SIEM10A		
	LAST SAVED BY: P. JANUSZKIEWI	ICZ	REF. THICKNESS	THREE PLACE DECIMAL: 1/-0.03mm	SCALE:	1:2 PROJECTION:	SHEET 1 OF 1		





ITEM NO.	SW-File Name(File Name)	PartNo	MATERIAL	REVISION	CM PART NUMBER	QTY.
1	Camera	8000-053	14		26-4675	1
2	TOF1020 Distance Sernsor	8000-054	-		26-4674	1
3	Camera PCB				26-4675	1
4	Camera_Enclosure_Base	4000-059	-	В	16-6411	1
5	Camera_PCB_Base	4000-062	-	В	16-6415	1
6	M2 x 5 - Phillips Rounded Head Thread-Forming Screw	90380A325	Steel		17-7333	4
7	Enclosure_Gasket	4000-063	-	A	16-6425	I
8	Camera_Enclosure_Cover	4000-064		A	16-6414	1
9	M3 - KNURLED NUT WITH COLLAR		(15-6967	2
10	Camera_and_Sensor_Gasket	4000-064	Material <not specified></not 	В	16-6414	1



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					TITLE:			
			PROJECT	UNLESS OTHERWISE SPECIFIED	400	00 - Ca	amera and S	Sensor Enclosure
A		03.01.2022	MATL -	ALL DIMENSIONS ARE IN mm	SIZE	E CM PART NO.		REV
REV	DESCRIPTION	DATE	GAUGE	TWO PLACE DECIMAL: +/- 0.15mm	B			111 A
A.	LAST SAVED BY: P. JANUSZKIEWICZ		REF. THICKNESS	THREE PLACE DECIMAL: +/-0.03min	SCALE 1:1 PROJECTION DE SHE		⊕⊖ SHEET 1 OF	