



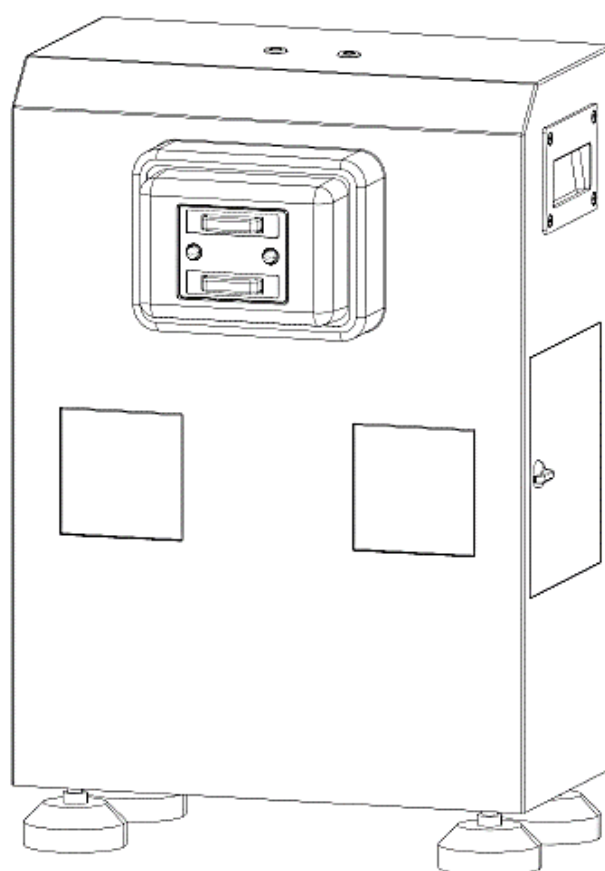
Clean like a pro

Charging Station CCS-02



User Manual

Original Instruction



2023.09



www.cenobots.com

CONTENTS

Introduction	2
Intended Use.....	2
Environment Protection	2
Device Data Label	2
Uncrate the Device	3
Safety	4
Important Safety Instructions	4
Safety Labels	6
Know your Device.....	7
Overview of Appearance	7
Install the Device	9
Select site	9
Install the Device	9
Operation.....	12
Start Device	12
Charge Manually	12
Stop the Device.....	12
Turn off Device.....	12
Transportation.....	12
Storage	13
Troubleshooting.....	14
Specifications.....	15
Declaration of Conformity.....	16

Introduction

This manual is only intended for end user and provides necessary information for operating the device. It contains the safety, installation, operations, maintenance and the specifications of the device.



CAUTION Read all instructions before operating or maintaining this device.

The device will provide the optimal service, if:

- Operate the device properly.
- Maintain the device regularly according to the maintenance instructions.
- Maintain the device with manufacturer supplied or equivalent parts.

If you have questions about the instructions and explanations of this manual, please contact CenoBots.

Intended Use

The charging station is intended for use with the CenoBots commercial cleaning robots. This charging station has the feature of automatically charging for the cleaning robots. When the robot's battery is low, the robot has the ability to automatically return to the charging station to recharge itself, and once the charging is complete, it can automatically resume its previous task. Discover hassle-free maintenance like never before with our innovative working station.

Environment Protection



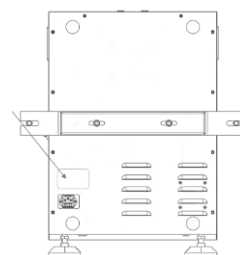
Please dispose of packaging materials and used device components such as charger in an environmentally safe way according to your local waste disposal regulations.



Device Data Label

The model and serial number of the device are shown on the nameplate which is located at the rear of the device. This information is needed when ordering repair parts for the device. Please note the device model and serial number as below:

Model: _____
Serial Number: _____
Data of Purchase: _____



Uncrate the Device

When the device is delivered, please check the packaging and device carefully for any damage. If there is any damage, report to the carrier immediately. Contact the local dealer or CenoBots directly for missing items.

Safety

Important Safety Instructions

Save These Instructions

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and **FOR SAFETY**. The level of hazard intensity is determined by the following definitions:

⚠WARNING: To warn hazards or unsafe practices which could result in severe personal injury or death.

⚠CAUTION: To warn hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To identify actions which must be followed for safe operation of equipment.

⚠WARNING: To reduce the electric shock, fire, explosion or injury:

- Always read the manual and before using the device for the first time.
- Do not use the device in rooms where explosive or highly combustible substances (e.g., gas, solvents, heating fuel, dust, etc.) are stored or processed.
- Power off the switch and disconnect the supply cord before servicing the device.
- Never touch the mains plug or socket with wet hands.
- Do not use or store the device outdoors.

⚠WARNING: This device is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge

⚠WARNING: Children should be supervised to ensure that they do not play with the device.

⚠WARNING: Use only an external supply with the following specifications:

Voltage: 100-240 V a.c.

Power: at least as 1000w

⚠WARNING: This device incorporates an earth connection for functional purposes and must only be plugged into an earthed socket-outlet.

⚠WARNING: If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

⚠WARNING: This device is designed exclusively for CenoBots cleaning robots that are equipped with lithium iron phosphate batteries and does not charge other robots or batteries.

FOR SAFETY:

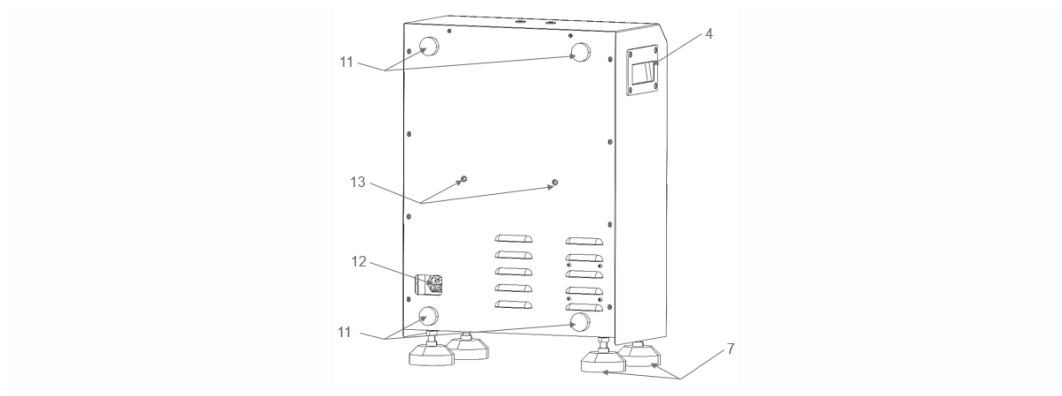
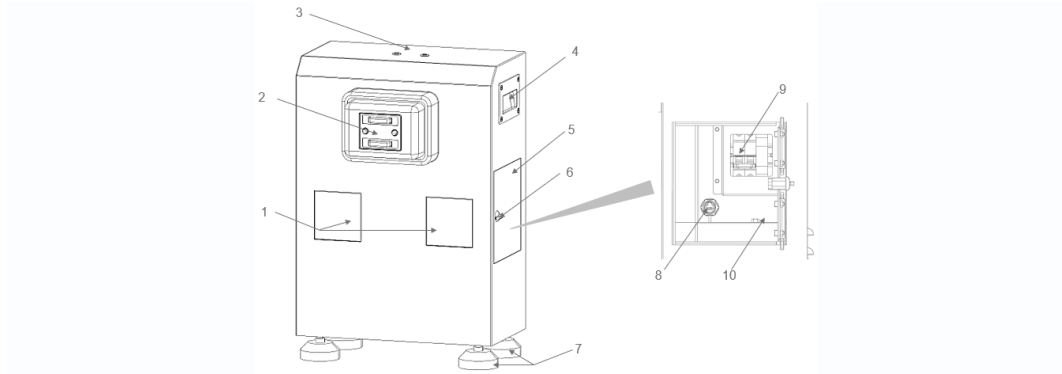
1. Do not use the device,
 - Unless trained and authorized.
 - Unless the operator manuals of this device and cleaning robot are read and understood.
 - Under the influence of alcohol or drugs.
 - Outdoors. This device is for indoor use only.
 - If not in proper operating condition, including temperature, altitude and the material of the ground. Refer to the specifications.
 - In flammable or explosive areas.
 - In areas with possible falling objects.
 - If the accessories or consumables are not supplied or authorized by CenoBots. Using other accessories may impair safety.
2. Before start up the device:
 - If safety-relevant covers, such as power supply cords, are damaged, stop the device and report.
 - Ensure that all covers are positioned in the designated locations as specified in the instructions.
3. When operating the device
 - Use it as described in this manual.
 - Pay attention to the local situation, as well as to third persons and children. Go slowly on slopes and slippery surfaces.
 - Keep children and unauthorized persons away from device.
4. When maintaining the device
 - Turn off the device and disconnect the supply cord.
 - Do not jack up device.
 - Do not clean the device with a pressure washer.
 - Use accessories and consumables supplied or authorized by CenoBots. The use of other accessories may impair safety.
 - Do not dismantle the device without permission. If you need service, please contact the local distributor.
5. When loading/unloading the device onto/off truck or trailer:
 - Drain the water tank before loading.
 - Block the device well.
 - Use tie- down straps to secure device.

Safety Labels

	Disposal
	Do not throw used device components to the bin.

Know your Device

Overview of Appearance



- | | |
|-----------------------|----------------------------------|
| 1. QR code | 8. Debug interface |
| 2. Auto charging port | 9. Air circuit breaker |
| 3. Indicator lights | 10. Manual charger |
| 4. Handle | 11. Back support cup |
| 5. Left door | 12. Supply cord connector |
| 6. Left doorknob | 13. Support mounting screw holes |
| 7. Bottom support cup | |

Indicator light introduction

The indicators are located on the top of the device, as shown in FIG. 3. They display the power and working status of the device.

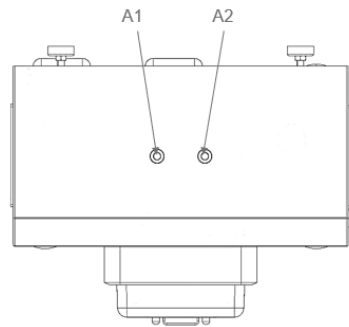


FIG.3

No.	Item	Description
A1	Power	Green: Power on; Red: Device error Red flash: E-stop button is pressed
A2	Charging	Green: Robot is charging

Install the Device

Select site

Select the site where the charging station will be installed and follow these steps:

1. The charging station needs to be placed against the wall, there should be no obstacle within a 2m X 2m area in front of it; it should not be deployed in corridors, narrow space corners and other environments; choose to have an obvious building structure in front of it.
2. The floor surface needs to be flat and smooth, to ensure that the base station electrode piece and the machine body electrode piece in the same horizontal line.
3. No obvious stains or mark on the QR code of base station.
4. Try to avoid crowded areas to prevent them interfere with charging task.
5. The location of charging station should not affect the passage of other personnel.
6. Choose a convenient location for power supply
7. Choose a location where maintenance personnel can easily monitor the robot, so that maintenance personnel can do daily maintenance and confirm the status of the robot.

Install the Device

We recommend securing the device to the wall to prevent unintended movement.

Install the device onto the wall

1. Check the accessories according to the shipping list.
2. Ensure that the charging ports of the robot and the charging station are at the same height. If the charging station is not horizontal, it should be adjusted accordingly.
To adjust the height and the levelness of the charging station, the operation can be taken as shown in FIG. 4.

- 1) Loosen the nut indicated by the arrow in Figure 4.
- 2) Rotate the Bottom support cup to lengthen or shorten it.
- 3) Lock the nut after the adjustment.

Note: Each support cup can be adjusted individually.

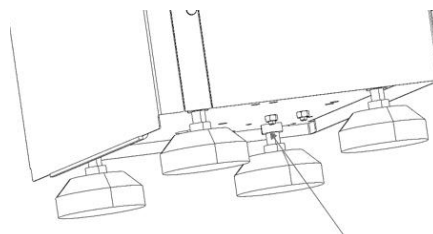


FIG.4

3. Install the bracket to the device as shown in FIG. 5

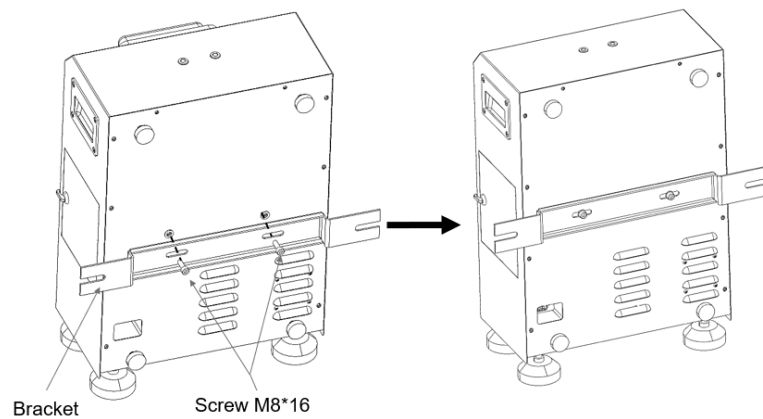


FIG.5

4. Install the supply cord to the device as shown in FIG. 6

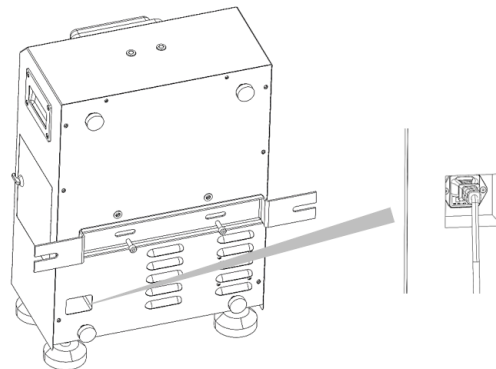


FIG.6

5. Install the device to the wall using the expansion bolts as shown in FIG. 7.

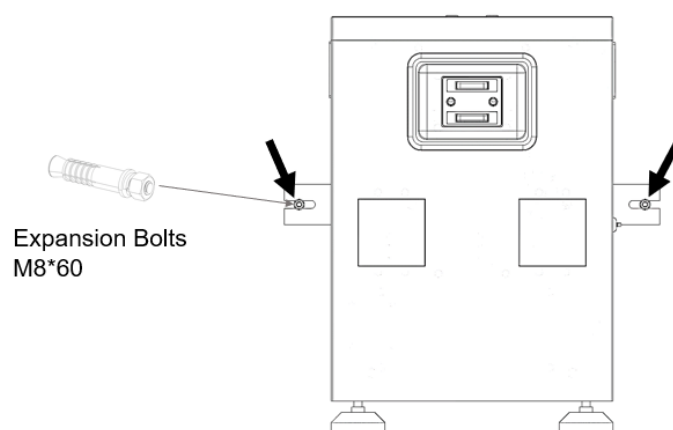


FIG.7

6. Adjust the four back support cups (11) until they touch the wall. They are adjusted in the same way as the bottom support cup. Lock the nut after the adjustment.

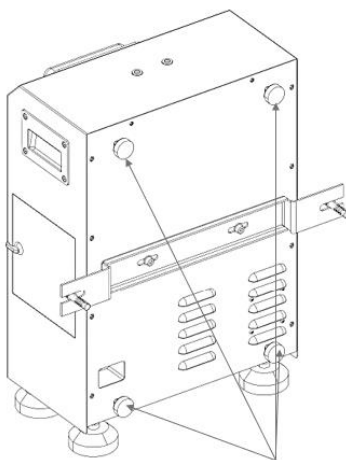


FIG.8

Operation

The main purpose of this chapter is to provide the necessary operating instructions for the operators.

Start Device

1. Connect the supply cord to wall outlet.
2. Turn the air circuit breaker (9) to up position.

Charge Manually

The manual charger connector is behind the left door.

This manual charger can be used when the battery is completely out of power and the Cenobots cleaning robot cannot be charged by the auto charging port (2).

⚠CAUTION: Please put the charging connector back in its original place after use.

Notice: Turn off the cleaning robot when manually charging.

Stop the Device

Press the emergency stop button of the cleaning robot.

Upon pressing the emergency stop button, the device will initiate the process of stopping the charging for the cleaning robot

Turn off Device

The charging station can be turned off by turning the air circuit breaker (9) to the down position.

⚠WARNING: Do not operate the device with wet hands.

Transportation

⚠CAUTION: Be aware of the weight of the device during the transportation.

The following steps should be taken when loading or unloading for transportation:

1. Make sure the air circuit breaker is turned off.
2. Use packing straps to secure the device, and place some soft materials like sponge between the device and packing straps to avoid scratching the surface of the device.
3. Do not lay the device flat when loading or unloading.

⚠ CAUTION: Do not use forklift directly to pick up the device, or use lifting rope to lift the device.

Storage

⚠ CAUTION: Be aware of the weight of the device during the storage.

The following steps should be taken when storing the device.

1. Store the device in the dry area indoors and out of direct sunlight under the following temperature conditions:

Min. storage temperature	-10°C
Max. storage temperature	40°C

2. Turn off the air circuit breaker before storing the device

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
The device is power off	The power socket has no power	Check the power socket
	The supply cord is not connected to the AC power	Connect the cord to the AC power
	The supply cord is not connected to the charging station or the connection between charging station and supply cord is not good	Check the connection between supply cord and charging station
	The air circuit breaker is turned off	Turn the air circuit breaker on
The device cannot charge for the robot.	Device error	Check the detail of the error on the robot screen or the mobile app and follow the steps according to the guide
	The emergency stop button is pressed	Release the emergency stop button
	Charger is damaged	Contact local dealer to replace the charger

Specifications

Dimensions (main body L*W*H)	420*225*620 mm 16.5*8.9*24.4 in
Weight	27 Kg 60 lbs
Input voltage	100-240 V a.c
Max. power	1000 W 1.34 hp
Output voltage	24 VDC
Output current	30 A
Ambient Temperature	-10°C~45°C

Declaration of Conformity

This Declaration of conformity is issued under the sole responsibility of the manufacturer:

Product name: Charging Station
Model number: CCS-02

The object of the declaration described above is in conformity with Directives:

2014/35/EU Low Voltage Directive
2014/53/EU Electromagnetic Compatibility

The following harmonized standards were applied:

EN 60335-2-29:2021+ A1:2021
EN 60335-1:2012+A11:2014 +A13:2017 +A1:2019+ A14:2019 + A2:2019 + A15:2021
EN 62233:2008
EN IEC 61000-6-2: 2019
EN IEC 61000-6-4: 2019

Signed for and behalf of the manufacturer:



Rick Zhang, Chief Product Manager
July 31, 2023

