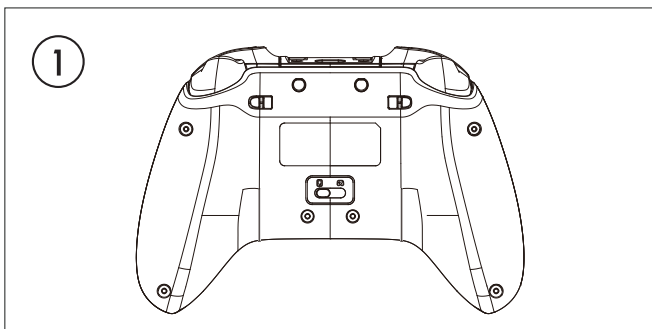


4. Physical Controller Instruction

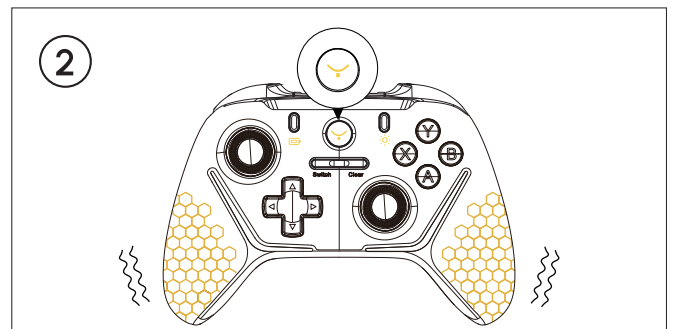


To gain the authority of physical controller, hold the Switch button for 2-3s to gain the authority. Once Yarbo gains authority, you can control the yarbo now.

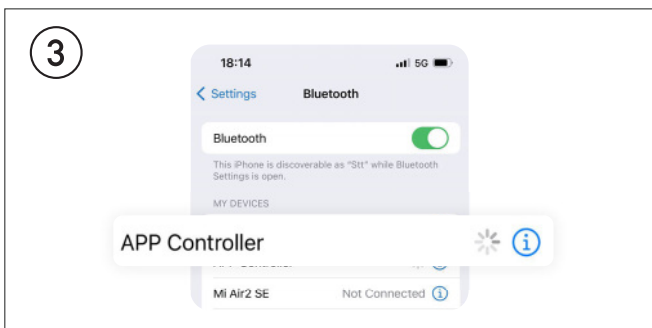
4.1.3 Connecting physical controller to mobile phone



Make sure that the slide switch is slid to the left side.



Press and hold the Yarbo Logo Button for approximately 5 seconds to turn on the physical controller and initiate the pairing mode.



Open the phone setting page and turn on Bluetooth. Click the '**APP Controller**' to pair the Yarbo physical controller.

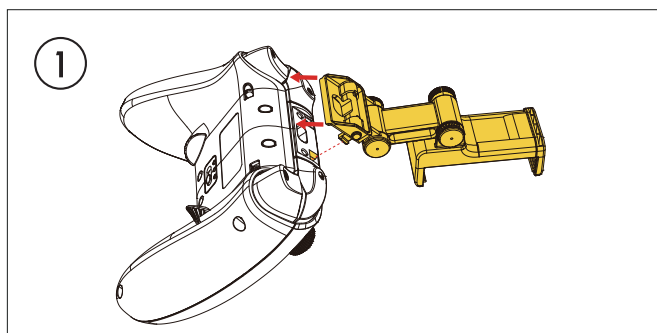


Observe the LED light on the top of Yarbo Controller. If the left yellow light is on steadily, it indicates that connected with the phone.

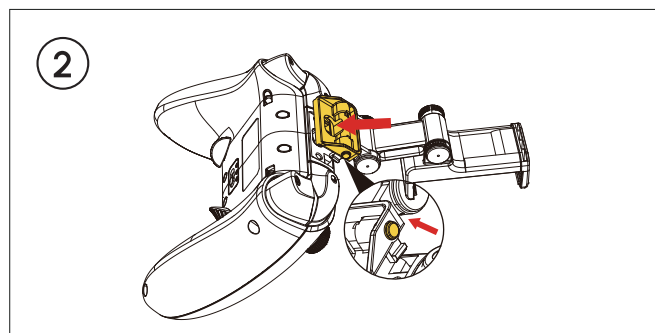
4. Physical Controller Instruction

4.2 Yarbo Controller Holder Installation Guide

We offer an additional controller holder for our users, allowing them to conveniently place their mobile phones on the holder to see the camera view on-time.



Locate the Physical Controller Holder provided in the Yarbo Core package and locate the side button on the Holder.



Locate the shafts and holes and press the buttons on both sides of the Holder, and then press the middle part as shown in the picture.



WARNING

- Never place the controller in the reach of children.
- Never allow unauthorized nor untrained persons to use the controller.

4.Physical Controller Instruction

**CAUTION**

- DO NOT expose the controller to freezing temperatures for an extended duration.
- DO NOT spill water or snow on the surface of the controller. If any water or snow comes into contact with the controller, wipe it immediately.

**NOTICE**

- Please note that any damage or malfunction caused by or misuse of the controller will not be covered by the warranty.

Yarbo Logo Button:

This button power on the controller. To power on the controller, press and hold the **Logo button for 1-2 seconds**. For powering off, long press the **logo buttons for 3 seconds**.

Battery Level

Press the Battery Indicator Button (refer to the picture on the next page) to check the battery level of the controller. The four LED lights on the top of the controller indicate the battery status.

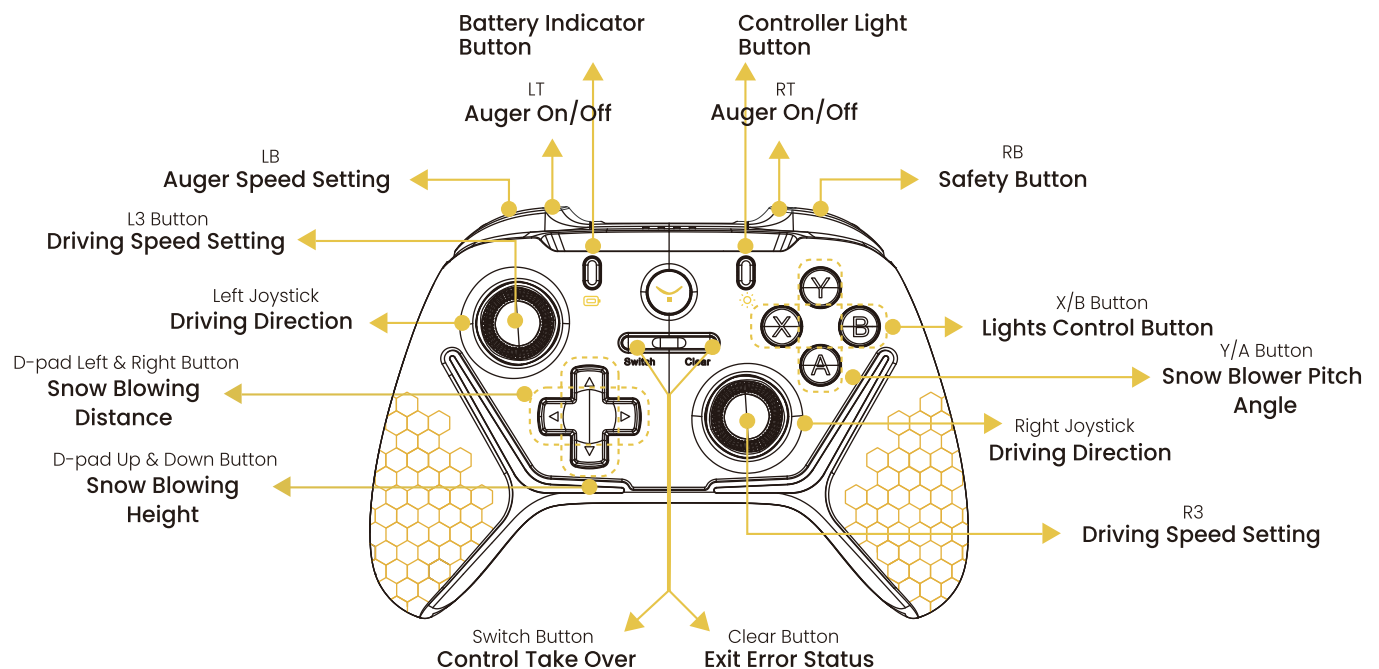
Light 1 stays on indicates battery level is 1%-25%.

Lights 1 and 2 stay on indicates battery level is 26%-50%.

Lights 1, 2, and 3 stay on indicates battery level is 51%-75%.

All lights (1, 2, 3, and 4) stay on indicates handle battery level is 76%-100%

4. Physical Controller Instruction



Button Introduction:

Yarbo Logo Button:

Logo button can be used to power on or off the controller. To power on the controller, short press the **Logo button for 1 second**. To power off, press the **Logo buttons for 3 seconds**. If the controller is not in use, it will automatically power off after 5 minutes.

Switch & Clear Button:

Long press the switch button for seconds to take over the control authority. Once the physical controller gains authority, the users can operate the snow blower.

Short press the switch or clear button to exit the error mode. When Yarbo encounters the dangers or stuck by any obstacles, it will stop and enters the error mode. After the dangers are cleared, pressed the start or clear button to exit the error mode.

4. Physical Controller Instruction

RB (Safety button):

RB are designed as safety button, which means that one of the buttons should be pressed throughout most of the operation that may cause dangerous result. Except for the X/A/B/Y buttons and D-pads, the rest of the function buttons must be pressed with the safety button to execute their own functions.

Left Joystick and Right Joystick:

These two joysticks control the direction of movement and speed of the robot. Press the safety button LB and rotate the stick around to control Yarbo's movement in any direction. Press the left and right stick vertically down to switch between two-speed settings (L3, R3 button).

LT or RT button:

LT and RT at the same time press 3s to turn on the auger, LT and RT at the same time release to turn off the auger

**WARNING**

- Always ensure that the surrounding environment is safe for auger operations. Make sure you are at least 17 feet away from Yarbo before you turn on the auger.

LB button:

Short press the LB button to control the speed of the auger. There are two modes of speed that users can choose, but the slow mode is set by default. By default, it starts at the lowest speed.

4. Physical Controller Instruction



WARNING

- To toggle the auger speed, the auger must be turned on first, which means that this button is not functioning when the auger is not in operation.

Directional Pad (D-pad):

Press the left and right buttons to control the snow discharging direction. Press the up and down button to control the snow blowing direction.

Y Button:

This button controls the snow blower module to pitch up. Press and hold the button to continuously pitch up the snow blower module until it reaches the highest position. Release the button to stop at the current angle.

A Button:

This button controls the snow blower module to pitch down. Press and hold the button to continuously pitch down the Snow Blower Module until it reaches the lowest position. Release the button to stop at the current angle.

B Button:

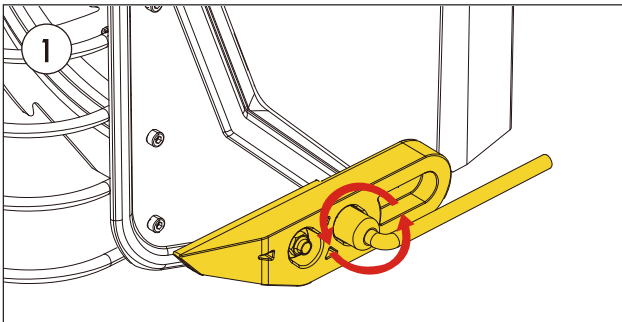
Press this button to turn on and off the front lights (default setting is on).

X Button:

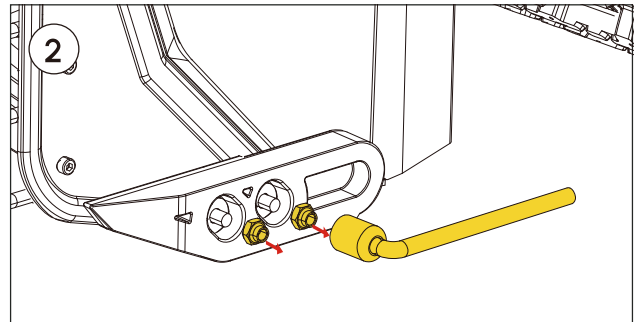
Press this button to turn on and off all the lights (default setting is on).

5.Optional Operation

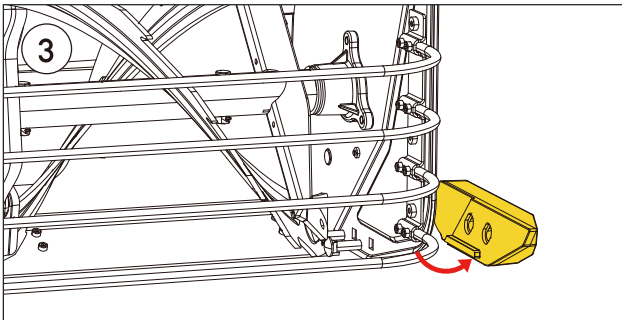
5.1 Removing Skid Shoes



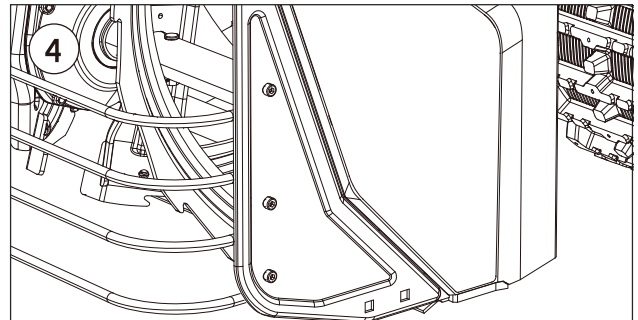
Locate Socket #2, which is provided in the package, and find the location for the skid shoes.



Unscrew the two bolts in one of the skid shoes.



Take off the skid shoe. Please ensure that the skid shoes are stored safely as they may be required for future use.



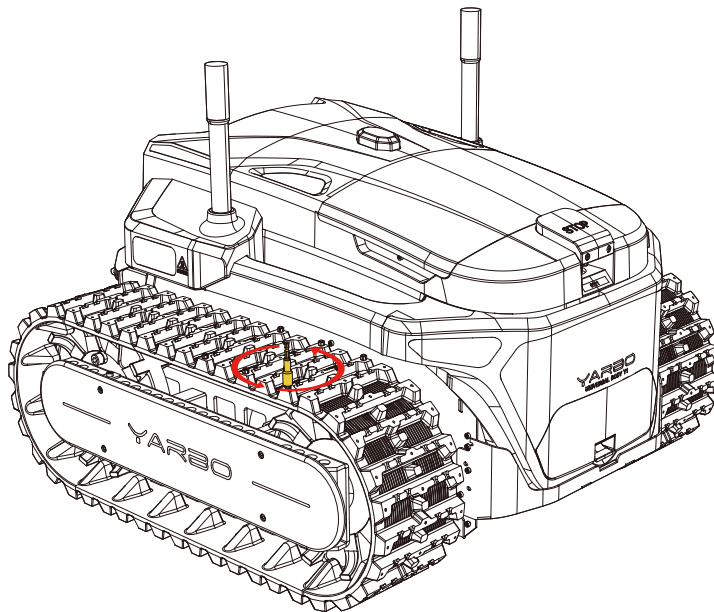
Please repeat the entire process and remove the skid shoe from the other side.

5.Optional Operation

5.2 Removing Anti-slip Studs

Anti-slip studs are designed to prevent tracks from slipping and to increase the friction between the track and the surface it traverses. They are crucial for maintaining the stability and maneuverability of Yarbo, especially in adverse conditions.

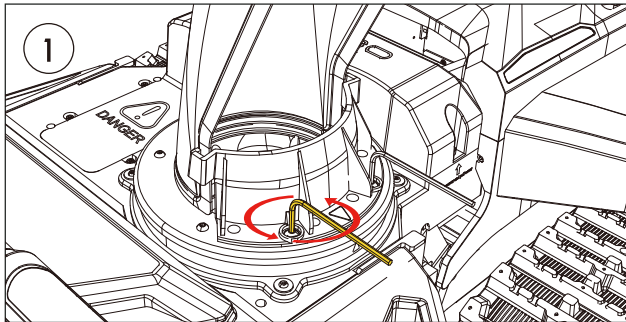
If there are special circumstances that require the removal of anti-slip studs, such as using the track for lawn mowing, please follow the following step to remove the studs.



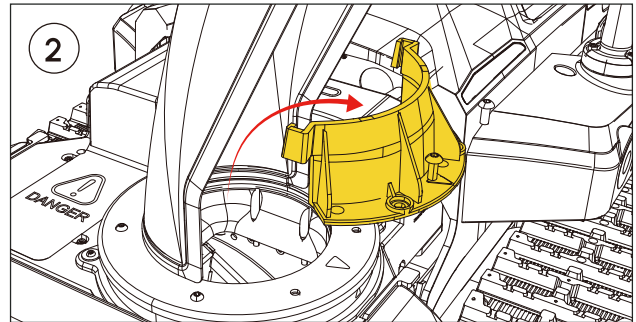
Loosen all the anti-slip studs on the track with Socket #1 or any electronic tools(not provided).

5.3 Removing the Snow Plume Diverter

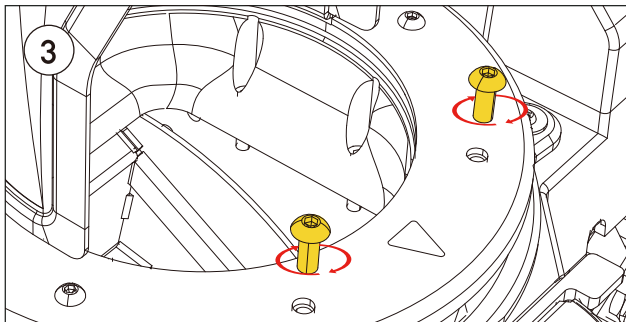
The Snow Plume Diverter should be removed when Yarbo is dealing with wet snow. The purpose of the Snow Plume Diverter is to provide a stream of snow when throwing common types of snow. When the snow is wet, this device can make the impeller and the chute more likely to clog. Shut down Yarbo completely before removing the Snow Plume Diverter.



Unscrew and Remove the two Snow Plume Diverter connection bolts using Allen Key #2.



Remove the Snow Plume Diverter.

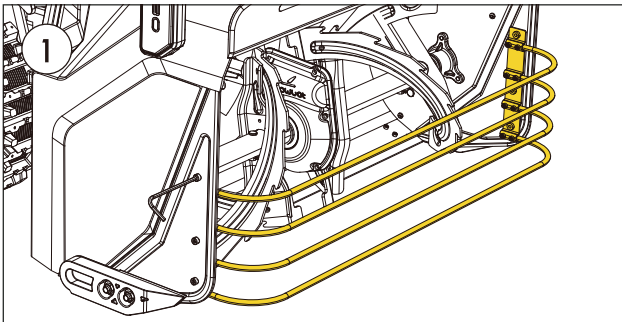


Tighten the two **Snow Plume Diverter connection bolts** just removed.

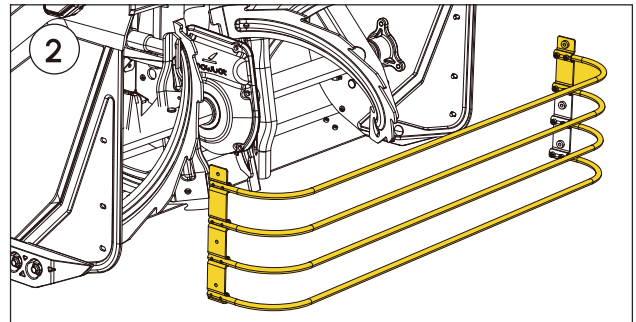
5.Optional Operation

5.4 Removing Snow Blower Protection Fence

Snow Blower Protection Fence serves as a vital defense mechanism, primarily dedicated to ensuring pedestrian safety by acting as a protective barrier for critical machine components, including impellers or augers. The protection fence of a snow removal robot like Yarbo can be uninstalled under special circumstances, such as when dealing with heavy snowfall where reduced resistance is necessary to ensure smooth operation.



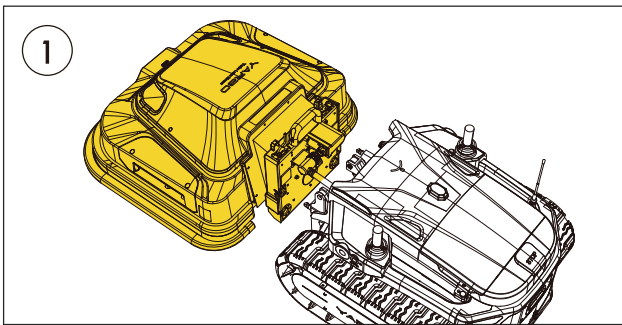
Unscrew the bolts in both sides of the protection fence using Allen Key #2 provided in the package.



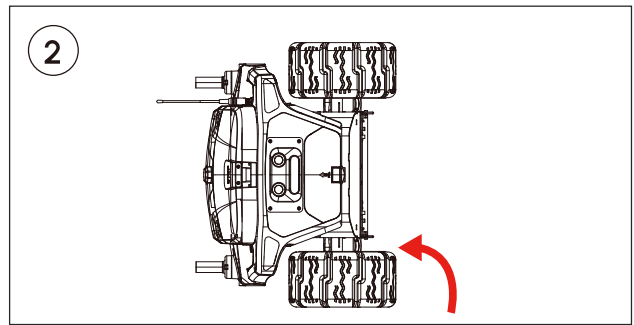
Remove the protection fence and safely preserve the bolts and fence.

5.5 Track Replacement

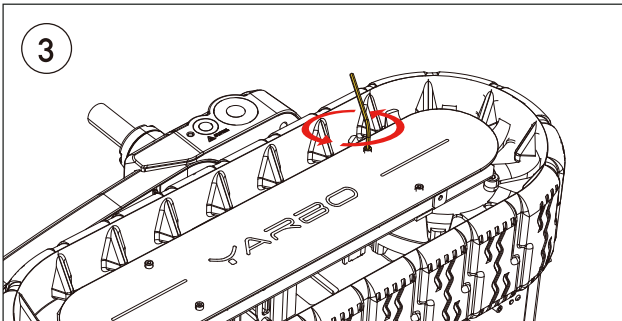
We provided different types of track for different usages. For lawn purposes, please locate the Quick-detach track located in the package.



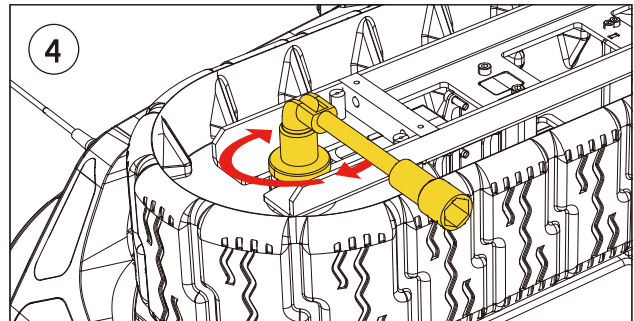
Please remove the module in the front for better adjusting the track.



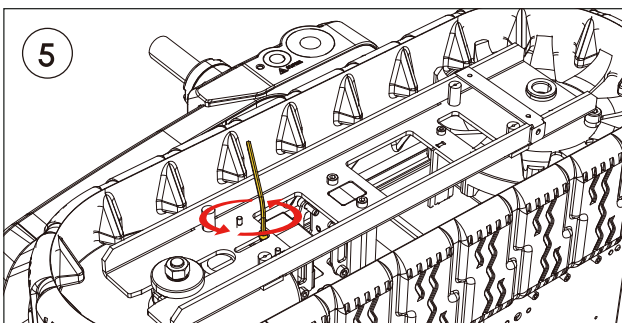
Rotate the Yarbo Core to a vertical position on its side.



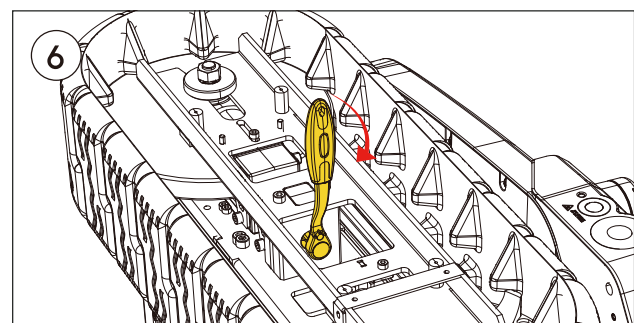
Remove the Side Panel by unscrewing the four bolts shown in the picture using Allen Key#2.



Locate L-Shaped Socket Wrench for Track provide in the package and use this tool to loosen the bolt shown in the picture.

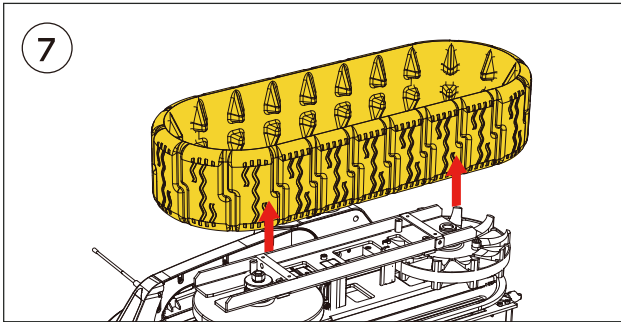


Unscrew the bolt shown in the picture using Allen Key#4

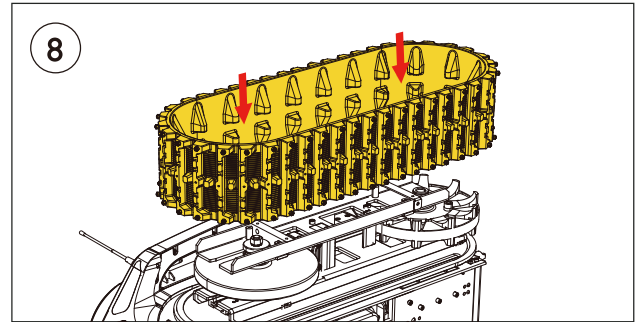


Locate the Track Wrench in the package and loosen the bolt shown in the picture.

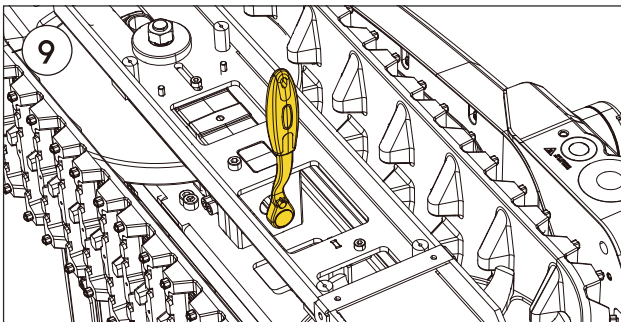
5.Optional Operation



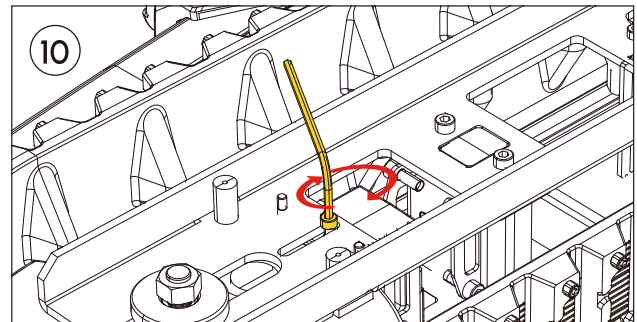
Tap both ends of the track and carefully detach the track from the Yarbo Core. If it is still too hard to detach the track, please repeat step 4 and step 5.



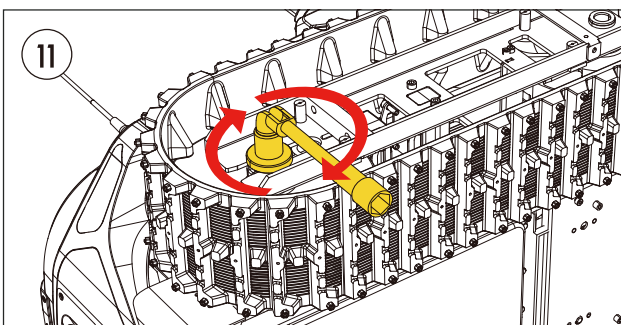
Locate the Snow Track provided in the package and install the Snow Track. Please ensure the track direction is correct as shown in the picture.



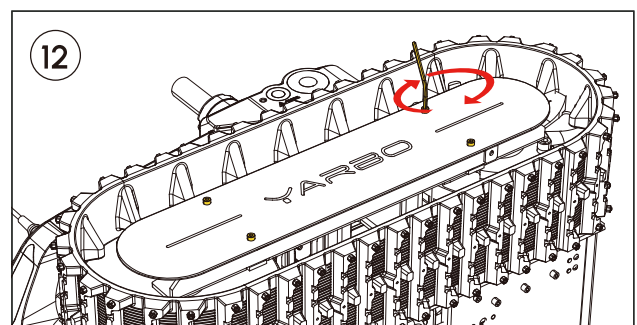
Locate the Track Wrench and tighten the bolt.



Tighten the bolt using Allen Key#4



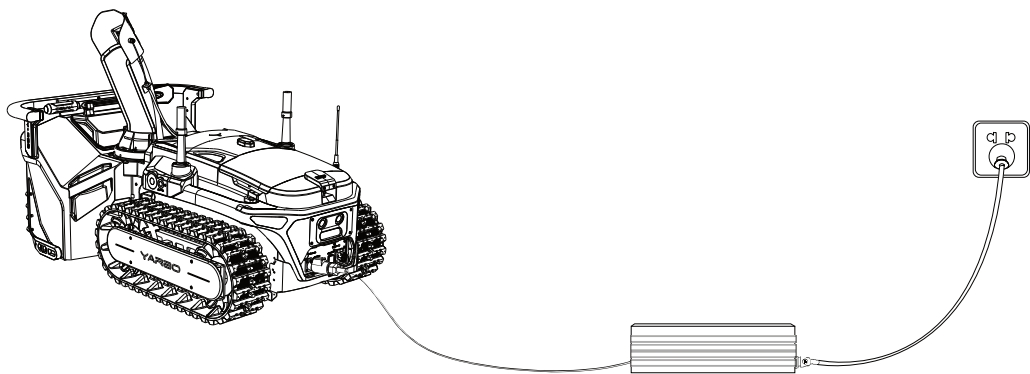
Locate L-Shaped Socket Wrench for Track and use the tool to tighten the track.



Place back the Side Panel and screw the four bolts to tighten the panel using Allen Key#2.

6.Charging

6.1 Charging Yarbo With Wired Charger



- To begin charging Yarbo, plug the wired charger into an electrical outlet, and then connect it to the charging port located at the rear of Yarbo.



WARNING

- Inspect the charging cable for any signs of damage or fraying. A damaged cable should be replaced to ensure safe and efficient charging. Also, please ensure that the connectors are clean and free from debris or dirt, as this can affect the charging process.
- When connecting the charger to Yarbo, please ensure a secure and snug connection. A loose connection may result in slow or interrupted charging. Double-check that the charger is firmly plugged into both Yarbo and the power source.
- Please ensure that the wired charger you are using is compatible with Yarbo. Check the charger's specifications and ensure it provides the appropriate voltage and current for charging Yarbo. Wrong voltage setting will damage the wired charger and Yarbo's battery pack, may lead to fire and explosion.

6. Charging

6.2 Charging Yarbo with Docking Station

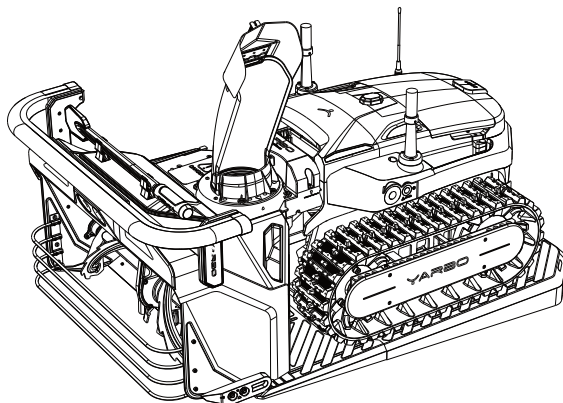
Autonomous Recharge

- Before using autonomous recharge, you need to:
 - ① Make sure you have already set up a map for Yarbo.
 - ② Yarbo is located within your area.
 - ③ Make sure the RTK Signal is strong.
- Normally, Yarbo will automatically return to charge when it detects low battery level (<20%). You can also manually send Yarbo to the docking station to recharge by:

Tapping the "Recharge" button on the Yarbo app's virtual controller page

Or

Tapping the "Recharge" button on the Yarbo app's autonomous plan page.



- ① Once the Yarbo is placed at the **center of the docking station**, automatic charging will commence without user intervention for 5 minutes.
- ② Click the **Charge** button on the APP home page if you want Yarbo initiate the charging process right now.

Manual Recharge

- Use the physical/virtual controller, manually drive Yarbo onto the docking station. Ensure that the Yarbo is positioned directly at the center of the docking station and parked in the correct orientation.



Maintenance Video

7. Maintenance Guide

7. Maintenance Guide

7.1 Before Conducting Any Maintenance

**WARNING**

- Please ensure that you do not wear open-toed shoes or go barefoot when performing the following maintenance tasks.
- Always use appropriate Personal Protective Equipment (PPE). Wear protective gloves and goggles whenever performing maintenance tasks or when needed.
- Ensure that Yarbo is switched OFF and disconnects the battery when performing the following maintenance tasks.

Disconnecting Battery from Yarbo

- ① **Press** the Emergency Stop Button.
- ② **Press** the Power Switch to turn off Yarbo.
- ③ **Confirm** that Yarbo is turned off by checking if all the lights are switched off. Unscrew the bolts on the side of the battery cover.
- ④ **Remove** the battery cover and unplug the cable connecting Yarbo and battery pack. Remove the battery pack and safely secure it.

