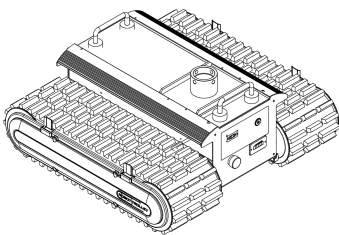


ROBOT TROLLEY 5500RS

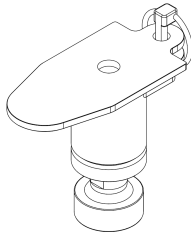
DK input here

COMPONENTS

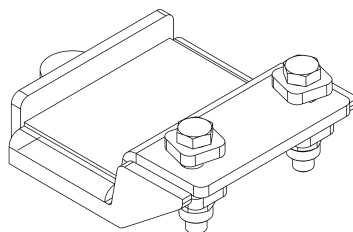
A 1x



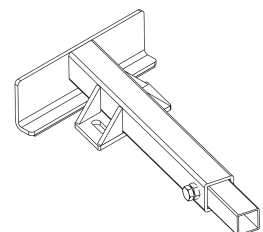
B 1x



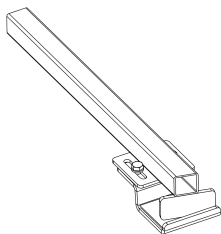
C 1x



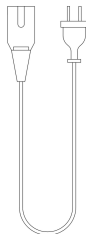
D 1x



E 1x



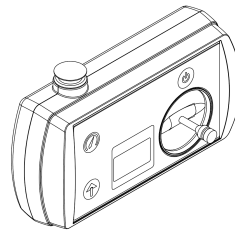
F 1x



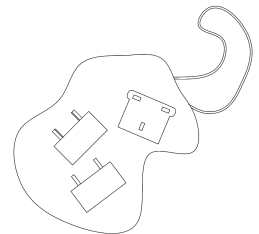
G 1x



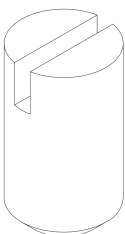
H 1x



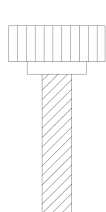
I 1x



J 4x



K 4x



A: Robot Trolley Mainbody **B:** Low Tower **C:** Female for mounting bracket **D:** Outer mounting tube with inner extension tube **E:** Inner mounting tube with mounting bracket **F:** Charger plug **G:** Adapter **H:** Remote control incl. 2x AA batteries **I:** Conversion plugs **J:** Cylindrical pins M8x14 **K:** Finger screw M4x12

S A F E T Y I N S T R U C T I O N S

1. Do not use the Robot Trolley on slopes and inclines beyond stated limits.
2. Avoid getting Robot Trolley wet. Do not submerge the Robot Trolley in water (salt or fresh).
3. Carefully read all instructions. The operator of the Robot Trolley must exercise common sense, caution, and full judgment when assessing situation not cover or cautioned in this manual.
4. The Robot Trolley is designed for specific application only. Robot Trolley company will not be responsible for issues arising from modifications made onto the device. Do not modify the device or use the device for any application other than its intended purpose. Do not exceed the designated weight limits.
5. Stay alert! Do not operate if you are tired. Do not operate the device while under the influence of drugs or alcohol.
6. Do not allow the Robot Trolley to be operated by children.
7. Operator and bystanders should never place any part of the body under or in the path of any portion of this product or the load being supported or moved.
8. This product must be installed and used in strict accordance with these instructions.
9. Before each use of the Robot Trolley, check for functionality and charge. Carefully inspect the device for any part that appears to be damaged to determine if the device will operate properly. If the device is neither charged, secured, or both: DO NOT use the device.
10. When serving, use only factory replacement parts.
11. Have wheel blocks in place before/after use and ready in case of emergency.
12. Never exceed the maximum rated capacity. Please refer to SPECIFICAION part.
13. The Robot Trolley is designed for vertical loading. Excessive side forces may cause failure and must avoided.
14. The use of gloves is recommended while attaching the device to the trailer.
15. The Robot Trolley is designed for use on solid surfaces. Do not use the product on excessively soft or muddy terrain as the device will not be able to gain traction. If there is no traction despite being on a solid surface, consider shifting more of weight of your trailer forward.
16. Do not charge the battery below 0°C (32°F). Charging at low temperatures may cause permanent battery damage, which can create a risk of internal short circuits.

SPECIFICATIONS

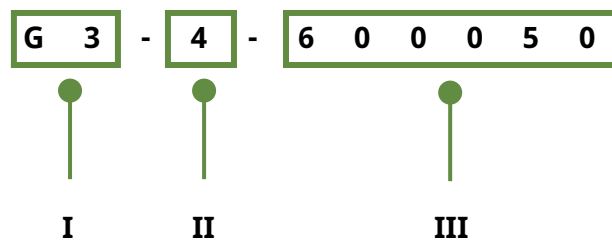
	RT5500 G-3
Weight	Approx. 41,5 kg
Dimensions Hx Wx L	324x 570x 550mm
Rec. vertical load	550kg
Engine/gear box	2x BLDC Motor-planetary gear
Slow speed, unloaded	Approx. 7m/min
Middle speed, unloaded	Approx. 14m/min
Fast speed, unloaded	Approx. 24m/min
Slow speed, loaded	Approx. 6m/min
Middle speed, loaded	Approx. 13m/min
Fast speed, loaded	Approx. 23m/min
Rec. towing capacity	Up to 5,500kg
Max. gradient pct.	Max 10%
Battery	44.4V Lithium 17,5Ah
Battery, operation runtime	Approx. 30min
Battery charger	50,4V 7A
IP level	IP54
Safety feature	3min auto shut off (Max load), 20s auto shut off (remote)

How to distinguish which generation

Every Robot Trolley has its own SNs, which related to the generations.

The SNs tags is on the top of every Robot Trolley. Every Robot Trolley has a unique one.

Rule for the SNs:



I: Number of product generation

II: Number of product version

III: Running number

INSTALLATION GUIDE

Checking the status:

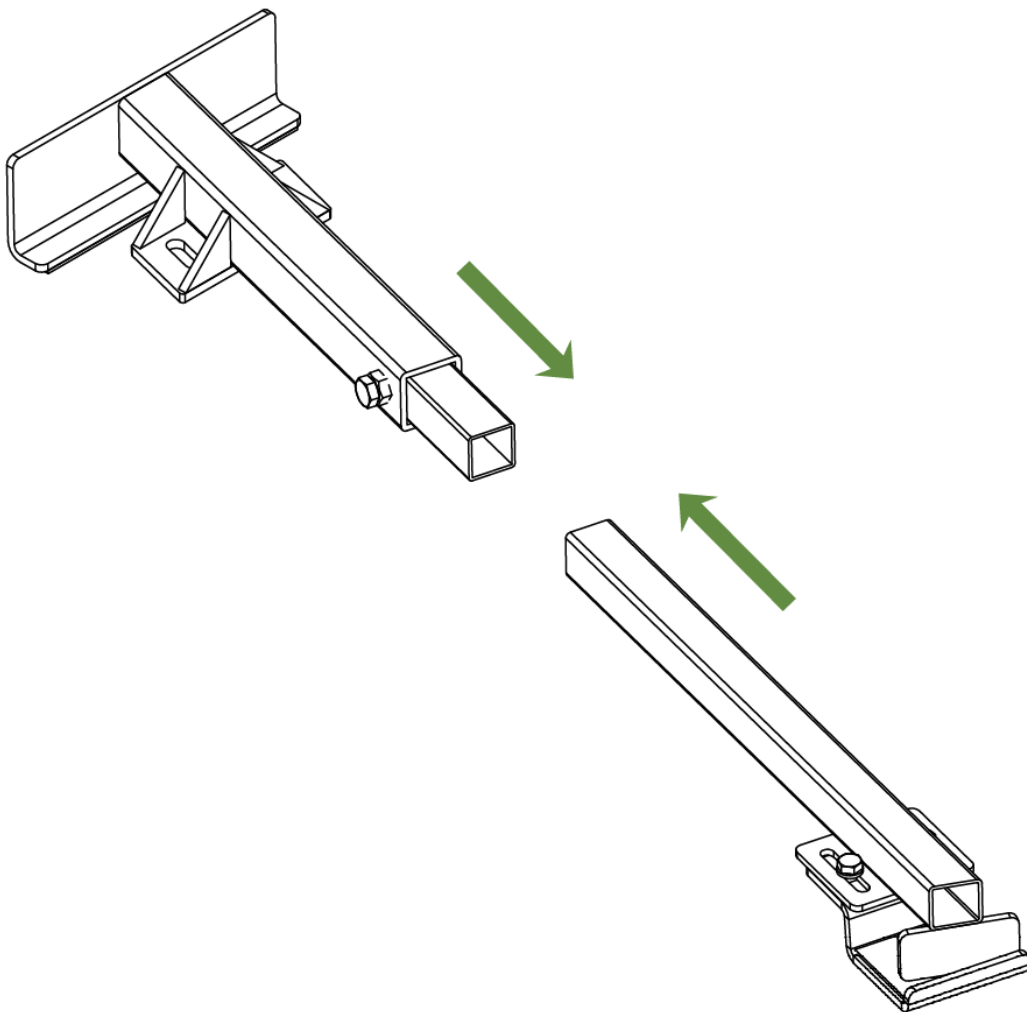
1. Unpack the Robot Trolley and check that the Robot Trolley is clean and not broken
2. Make sure the Robot Trolley battery is charged according to instruction

Mounting the suspension fitting- Standard bracket

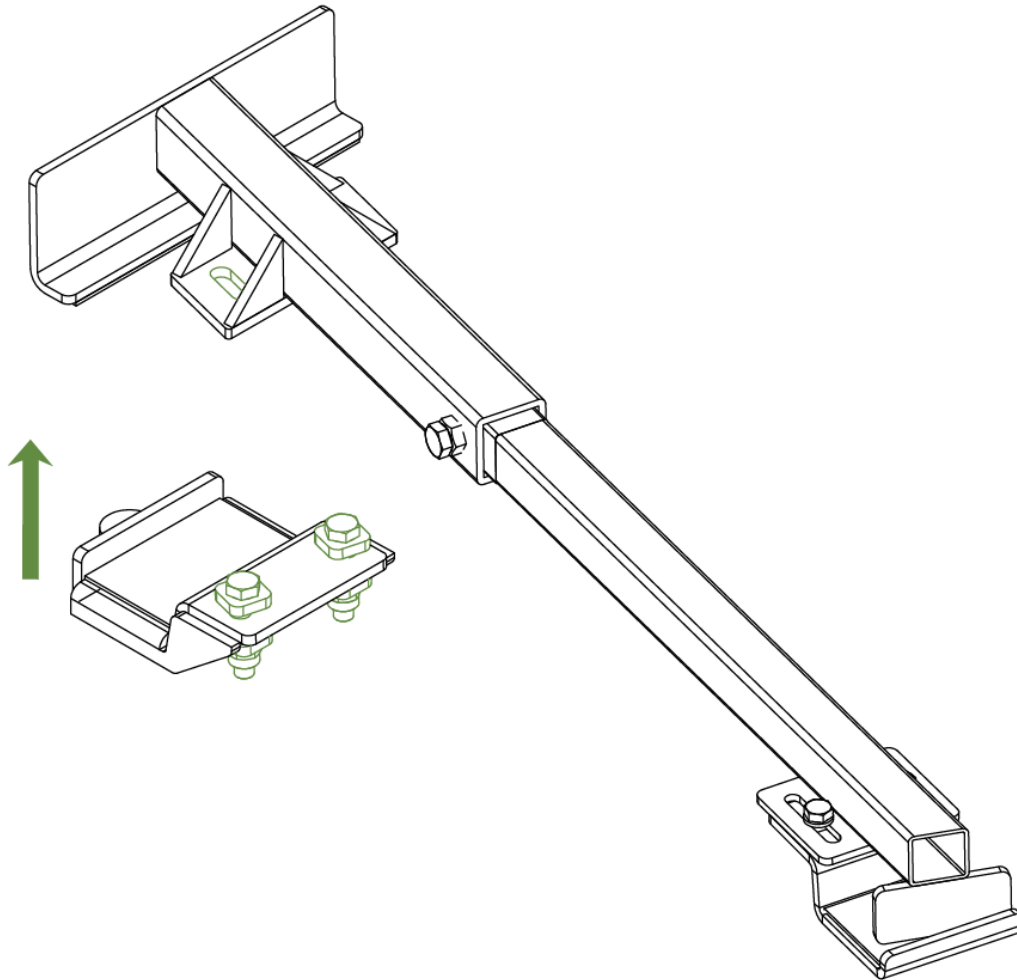
Please note the regional variants: Some countries and makes of caravan may require a special bracket version. Please inquire with your dealer.

If there is a plastic cover over the side member system on the caravan, it can be helpful to remove it while mounting the suspension fitting.

1. Stand by gliding the Outer mounting tube with inner extension tube(D) and Inner mounting tube with mounting bracket(E). Place them up inside members.

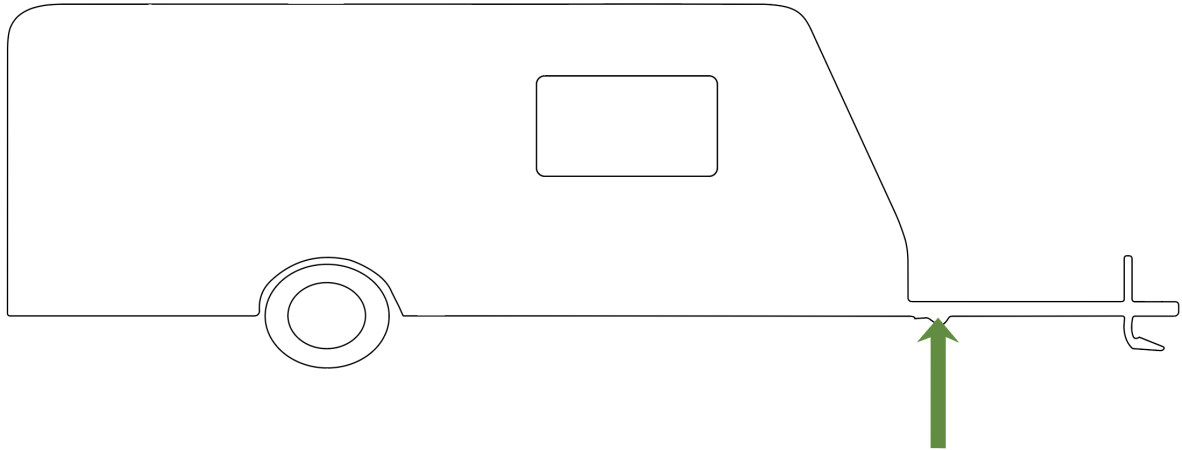


2. Screw the female piece to the Outer mounting tube. If there is a large distance, place the extension tube inside the inner mounting tube.

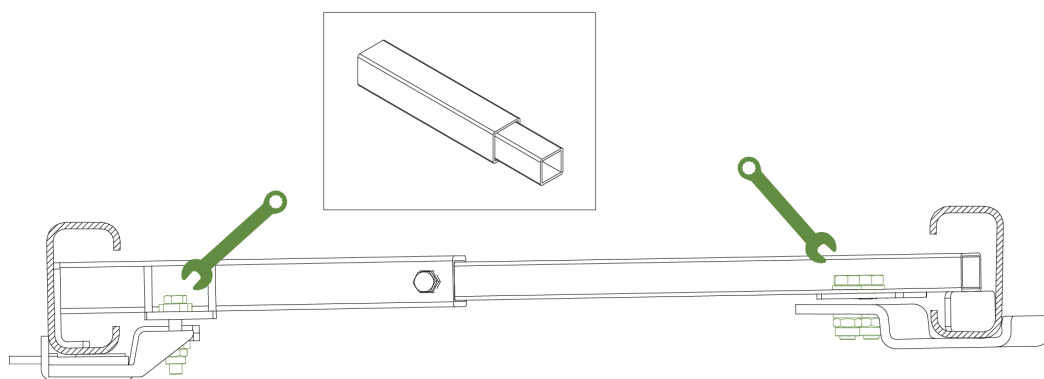


3. Slide the entire suspension fitting as far back on the side member as possible to put maximum weight on the Robot Trolley. Do not push the suspension fitting so far back that mounting and removing the Robot trolley becomes difficult.

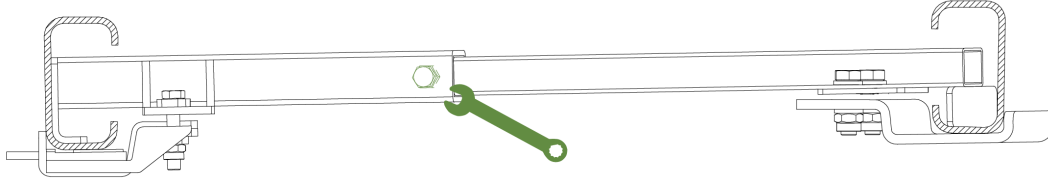
The following illustration shows the optional placement of the suspension fitting on the caravan:



4. Push the Outer and Inner Mounting Tube as far from each other as possible, towards the sides of the side members. Tighten the left and right brackets so that the bent undersides of these are positioned precisely against the outer side of the side members. Make sure that the bolts are tightened to the maximum extent.
(If the caravan's bearers are extremely narrow, and the mounting tubes cannot be pressed far enough together upon mounting, you can use a hacksaw to Inner shorten mounting tube(E). There must be minimum 10-15 cm inner overlap of the Outer and Inner mounting tubes.)



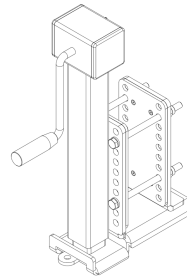
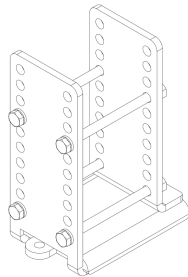
5. Once the suspension fitting is adjusted and fastened to the side members, tighten the clamp bolt into the side of the inner mounting tube.



Different bracket choice

Besides standard bracket included in the Robot Trolley package, we provide universal closed frame bracket and universal high lift bracket to fit more usage scenarios

Universal closed
frame bracket



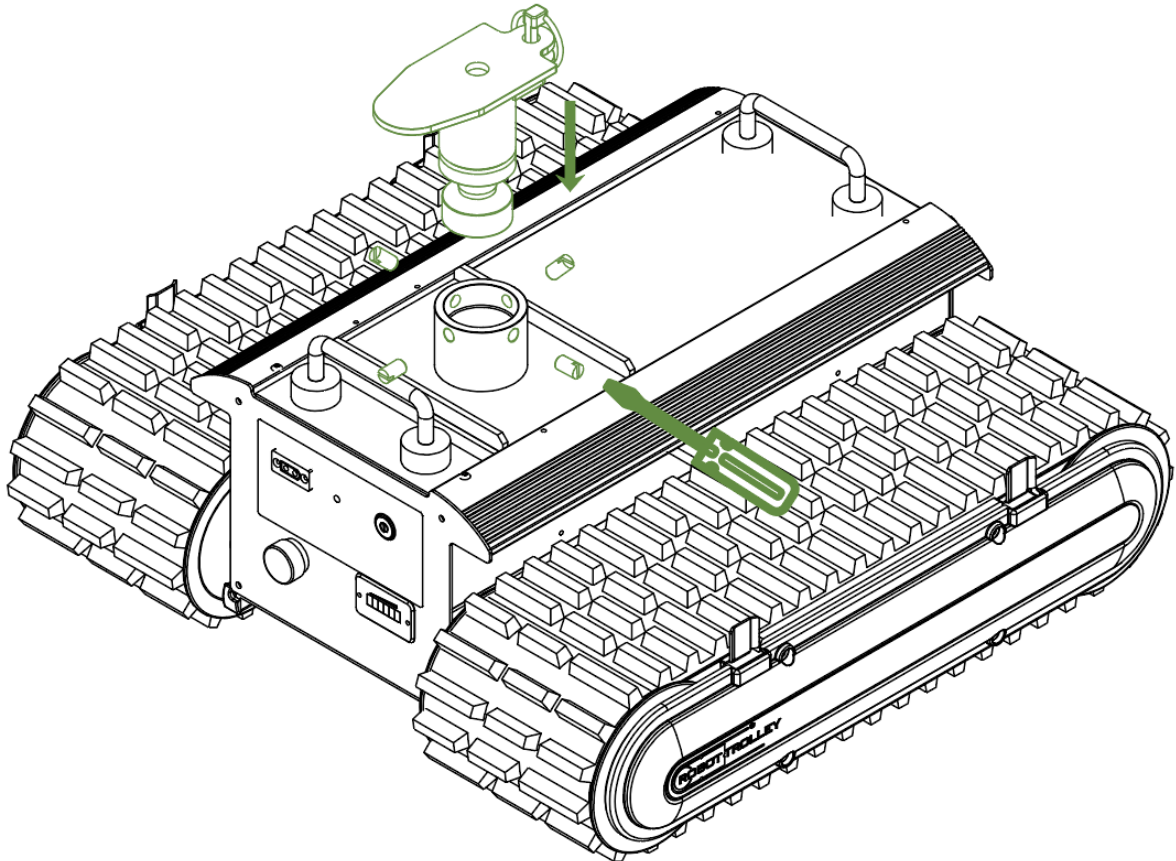
Universal high
lift bracket

More information, please find in our Robot Trolley homepage:

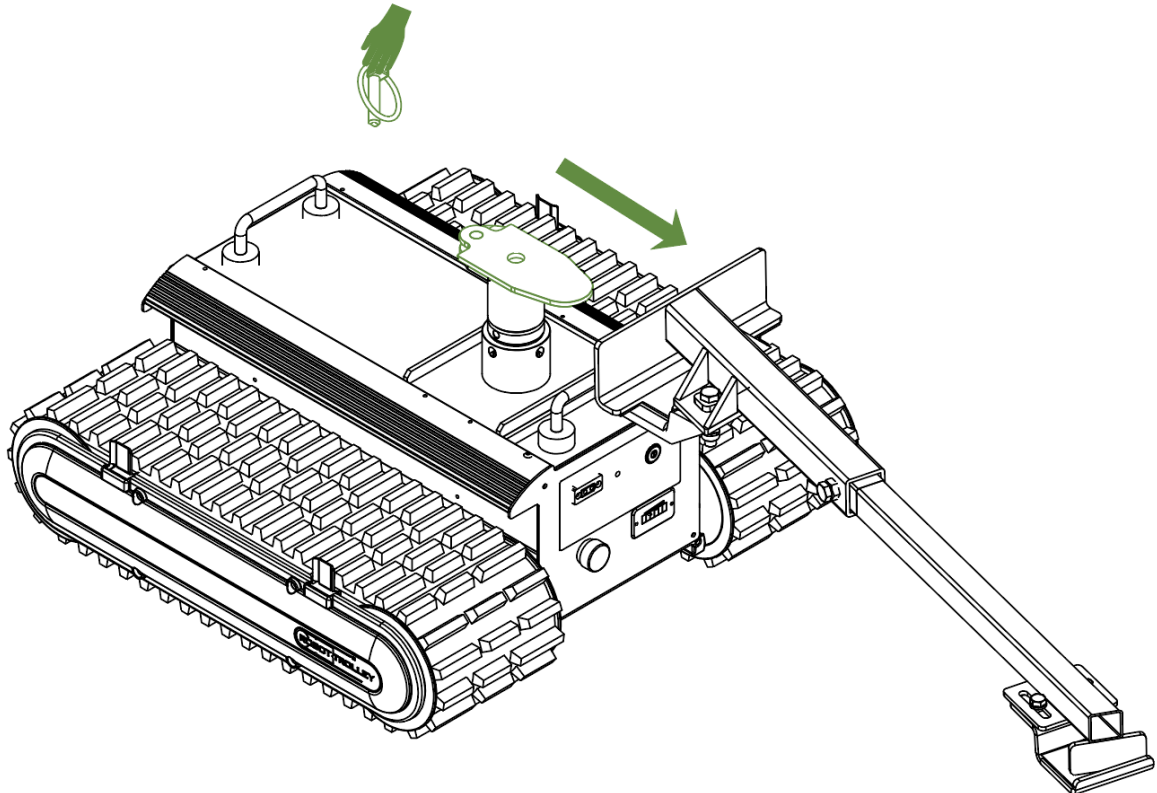
<https://robot-trolley.com/collections/accessories>

Mounting of Robot Trolley

1. Put the Low tower(**B**) on the top bracket of the Robot Trolley.
Mount 4 pcs cylindrical pins(**J**) with the slotted screwdriver.

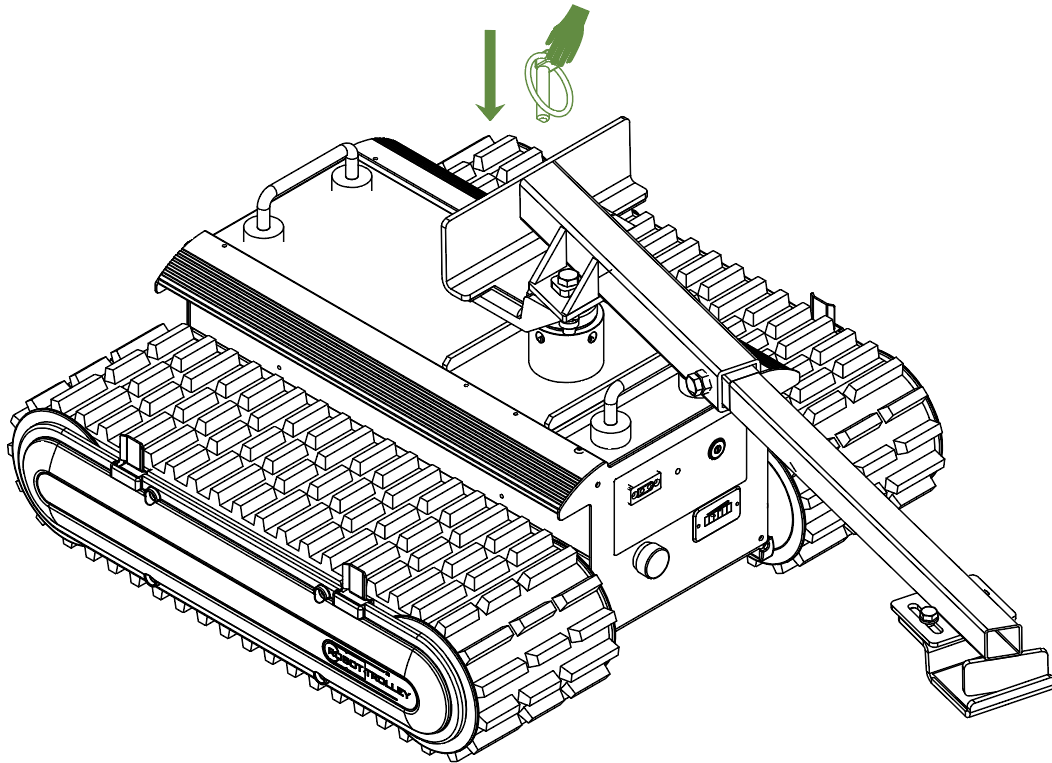


2. When mounting the Robot Trolley on the suspension fitting, please adjust the height of the suspension fitting using the nose/jockey wheel. Make sure it reaches a right height to mount the Robot Trolley.
Pull out the cotter ring and put it aside. The suspension fitting mounted on the Robot Trolley fits into a slit on the underside of the mounting fitting on the left side (seen from the ball catch) and can be pushed into place in this slot.



3. After pushing the Robot Trolley into the slot in the mounting fitting, attach the cotter ring, which locks the Robot Trolley in place.

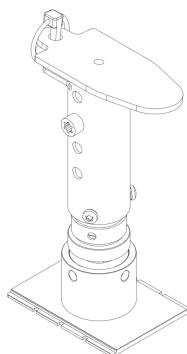
After attaching the cotter ring to the Robot Trolley. Raise the support wheel to its highest position and release the hand brake. This shifts the weight of the caravan onto the Robot Trolley. You are now ready to tow your caravan.



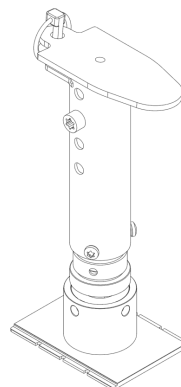
Different height tower choice

Besides the standard low tower included in the Robot Trolley package, we provide middle tower and high tower to fit more usage scenarios.

Middle tower



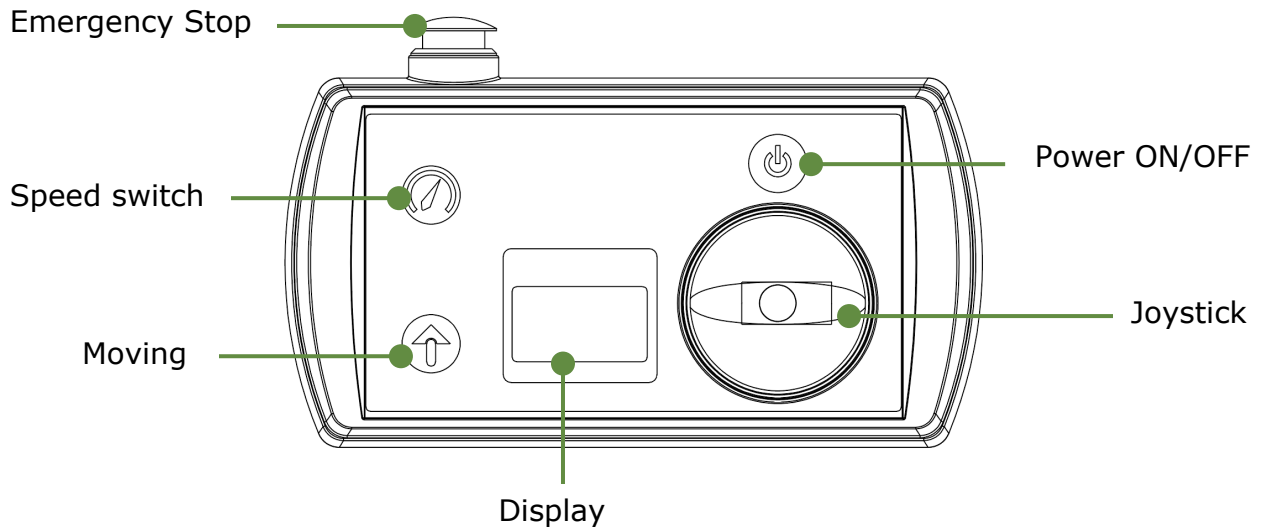
High tower



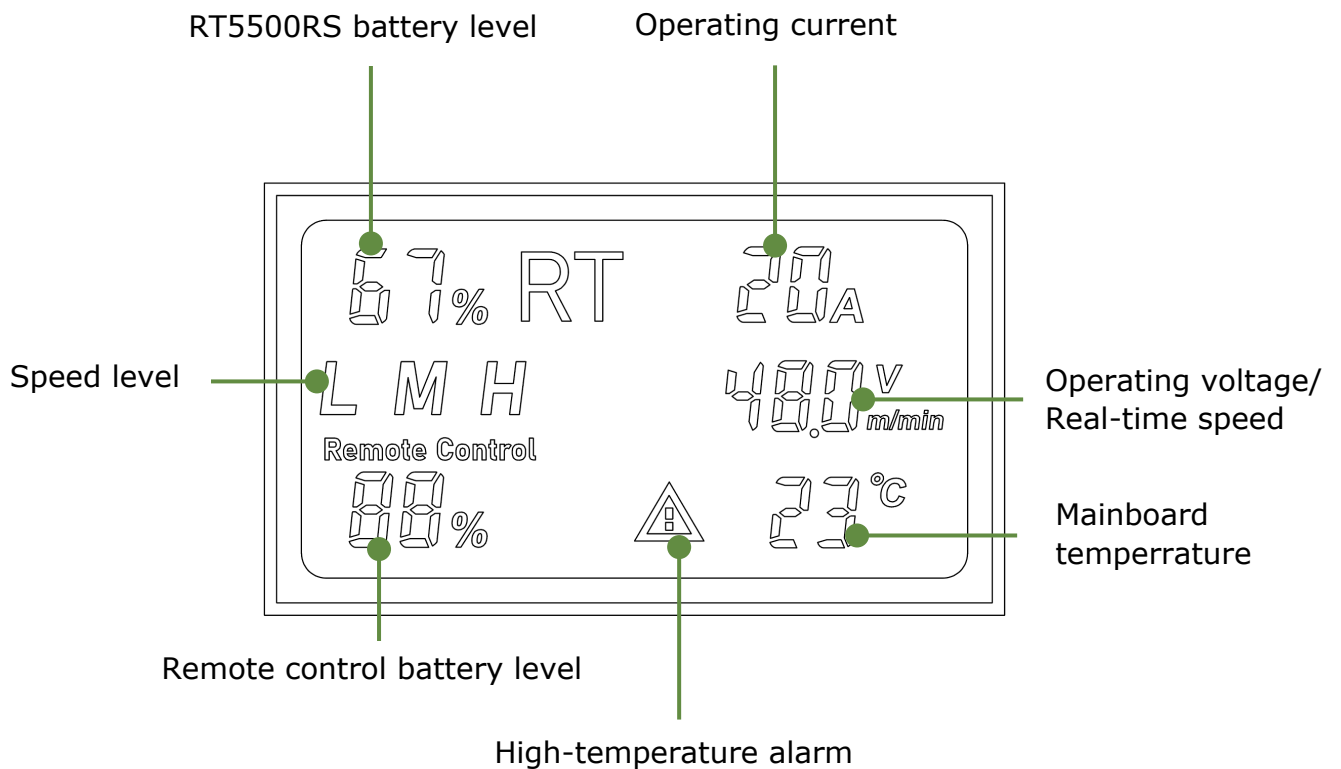
More information, please find in our Robot Trolley homepage:
<https://robot-trolley.com/collections/accessories>

REMOTE CONTROL

Remote control buttons



Remote control display instructions





The Robot Trolley logo on the remote control must always point toward the trolley.

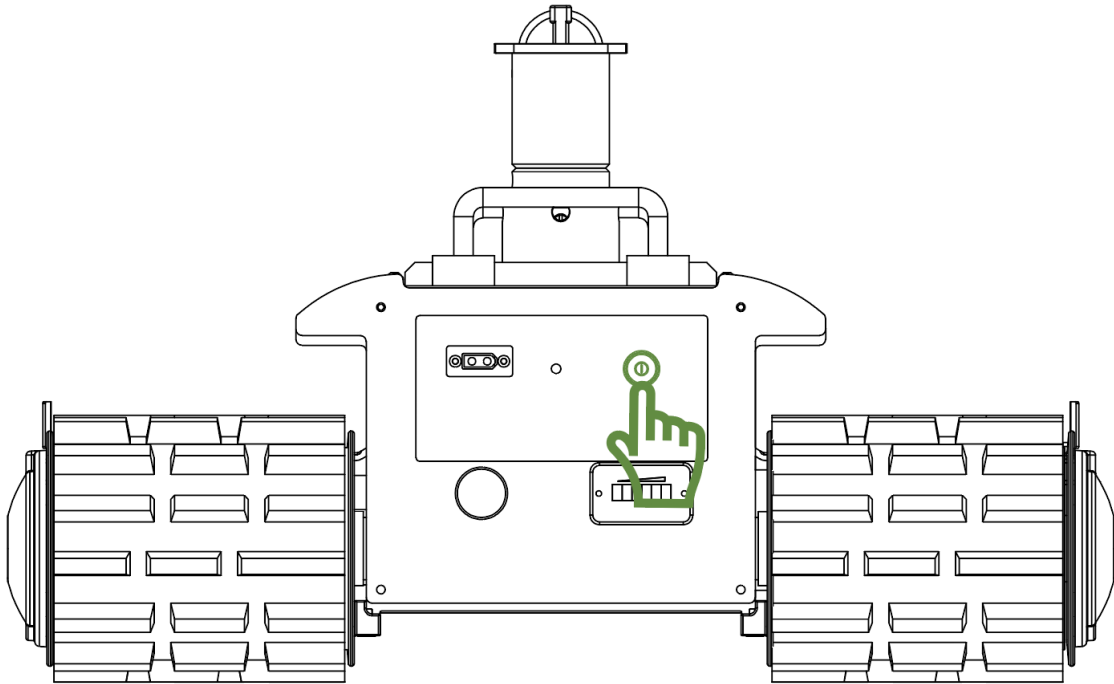
Use both hands on the remote control and hold it horizontally during use.

- **Power ON/OFF:** Press the button to turn on/turn off the remote.
- **Emergency Stop:** Press to make Robot Trolley stop any actions.
- **Speed switch:** Press the button to switch the speed level (High speed, middle speed, and low speed). The speed level you choose would show in the display.
- **Moving:** Press and hold the button to match Joystick operation.
- **Joystick:** To match Moving button operate. Joystick can control Robot Trolley moving directions.
- **RT5500RS battery level:** Indicates the machine battery level.
- **Speed level:** To indicate speed level you have chosen.
- **Operating current:** To indicate the running machine operating current.
- **Operating voltage/Real-time speed:** To indicate the operating voltage when the machine is on stop. To indicate the real-time speed when the machine is moving.
- **Mainboard temperature:** To monitor the real-time temperature for mainboard.
- **Remote control battery level:** To indicate remote control battery level.
- **High-temperature alarm:** Warning mainboard high temperature, suggest stop operation and let the machine temperature make it cooling.

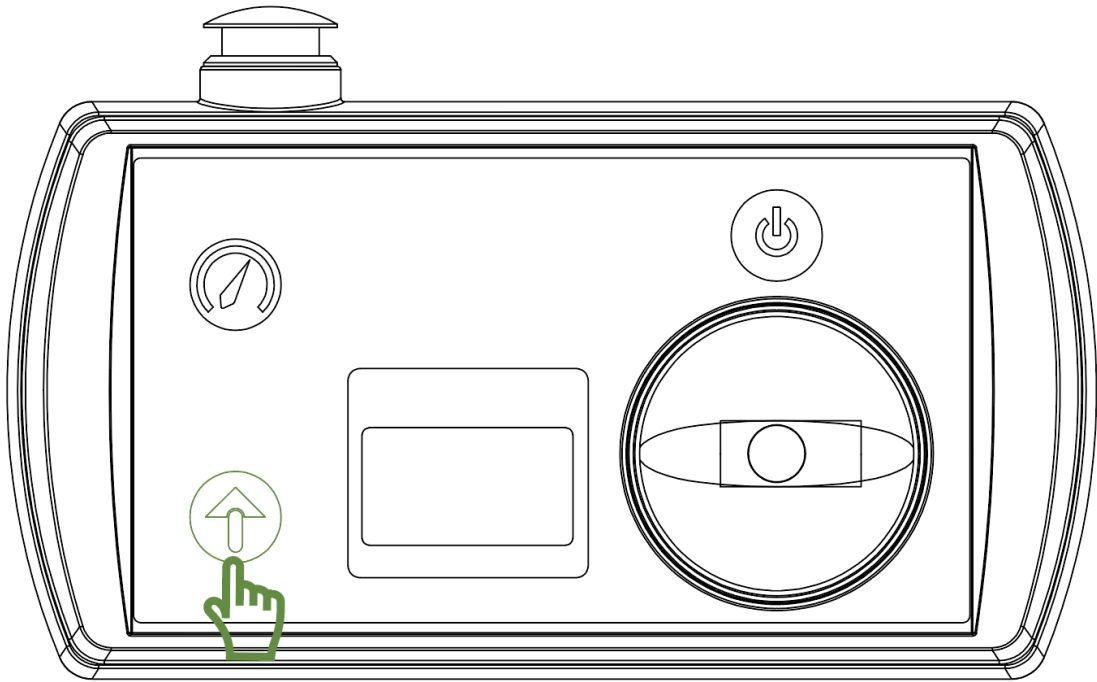
How to activate and pair the Robot Trolley with the remote control

The Robot Trolley comes pre-paired with the remote control.

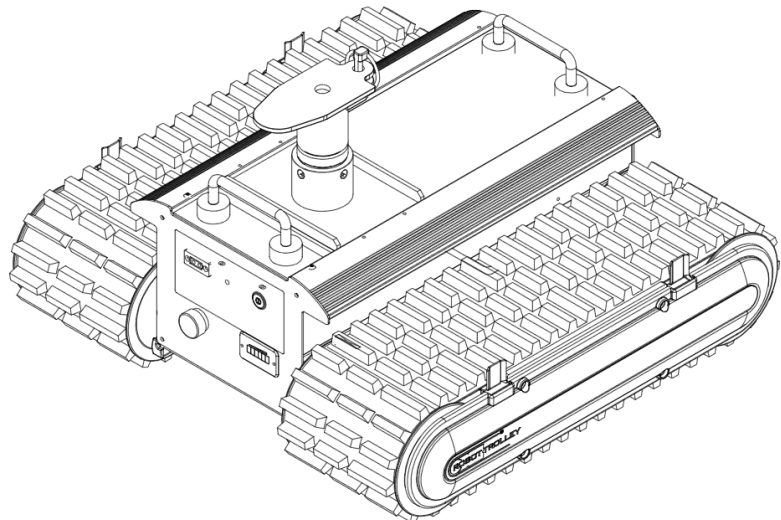
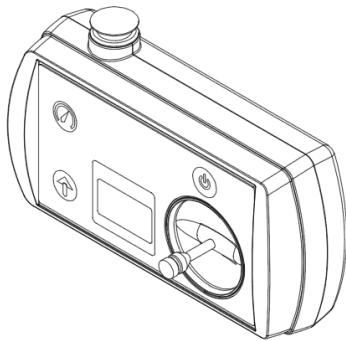
1. Turn on the Robot Trolley by simply pressing the Start/Sop button for maximum 1-2 seconds.



2. Meanwhile turn on the remote control by pushing the Moving button(↑) once.



3. The Robot Trolley is now ready to use.

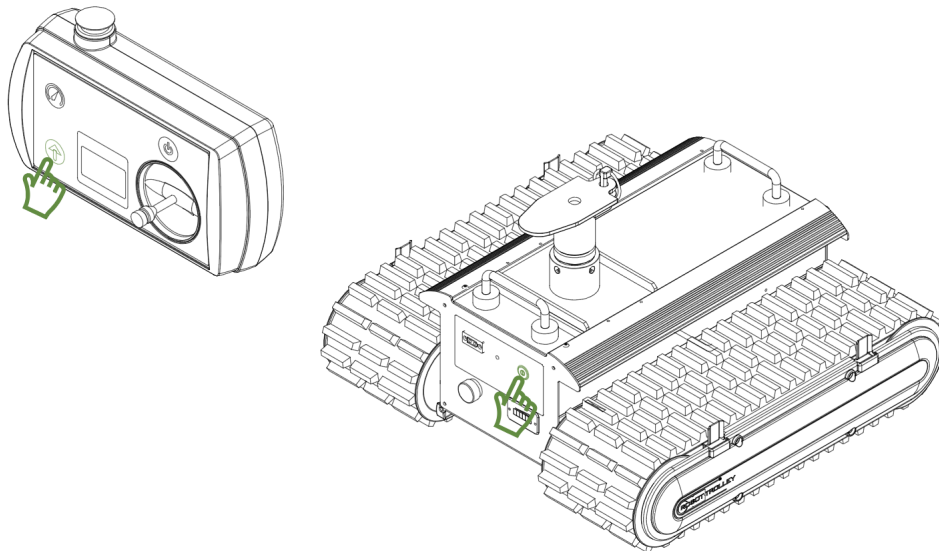


IMPORTANT:

If your Robot Trolley has been repaired (Main PCB or Remote control broken), you might need to **re-pair the Robot Trolley with the remote control**.

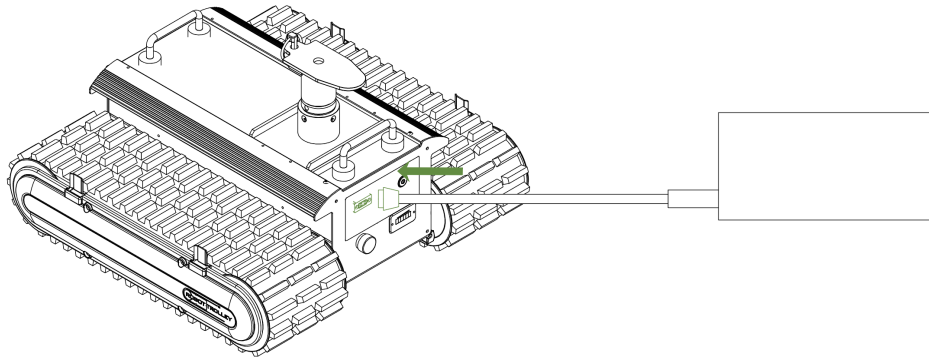
The first operation steps like the above, but the Step3 as below:

- Now simultaneously press and hold the Turn Right button (→) on the Remote Control and press and hold the Start/Stop button on the Robot Trolley, both LED lights start to blink for 8 seconds, after which the LED lights will light constantly. Now the Robot Trolley and Remote Control have been re-paired and are ready to use. If this pairing procedure is unsuccessful, the Remote Control will turn off automatically in around 15 seconds, and the user needs to redo the procedure from step 1.

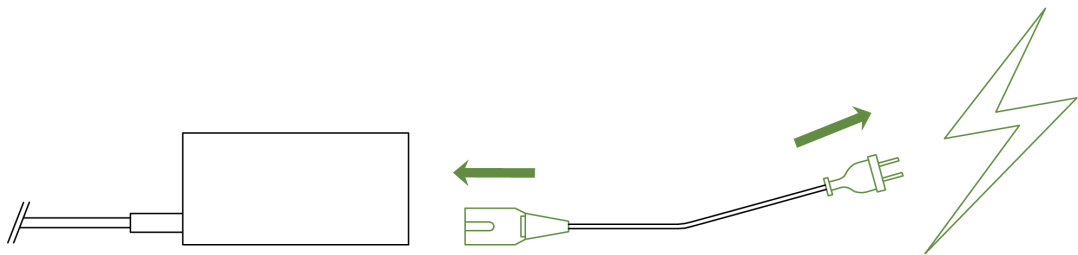


HOW TO CHARGE THE BATTERY

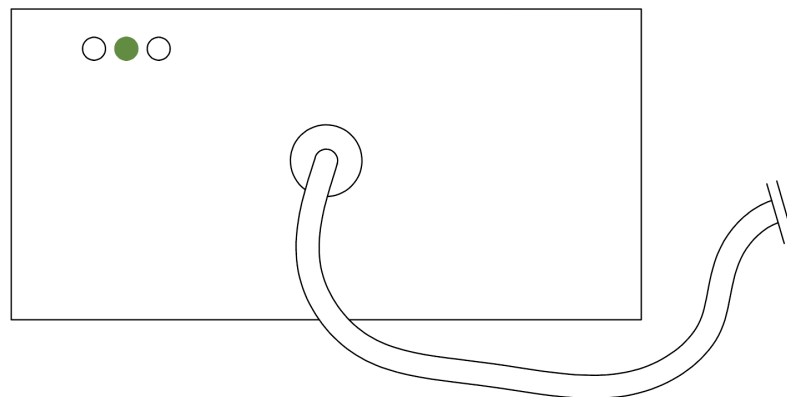
1. Open the charger rubber cover. Connect to the Robot Trolley by placing the adapter(**H**) plug in the outlet on the front cover.



2. Connect to the adapter by inserting the charger plug(**G**). The other side of charger plug connects to the power(110v-240v)

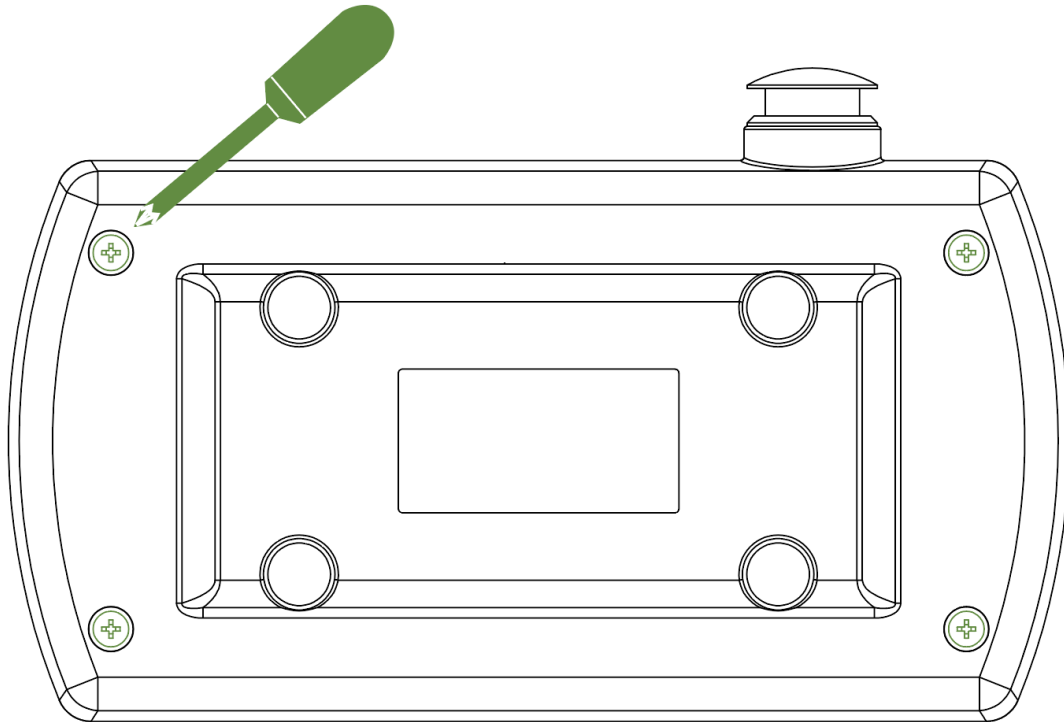


3. The charger adapter displays a constant red light while charging is in process. Completion of battery charging is indicated by a constant green light.

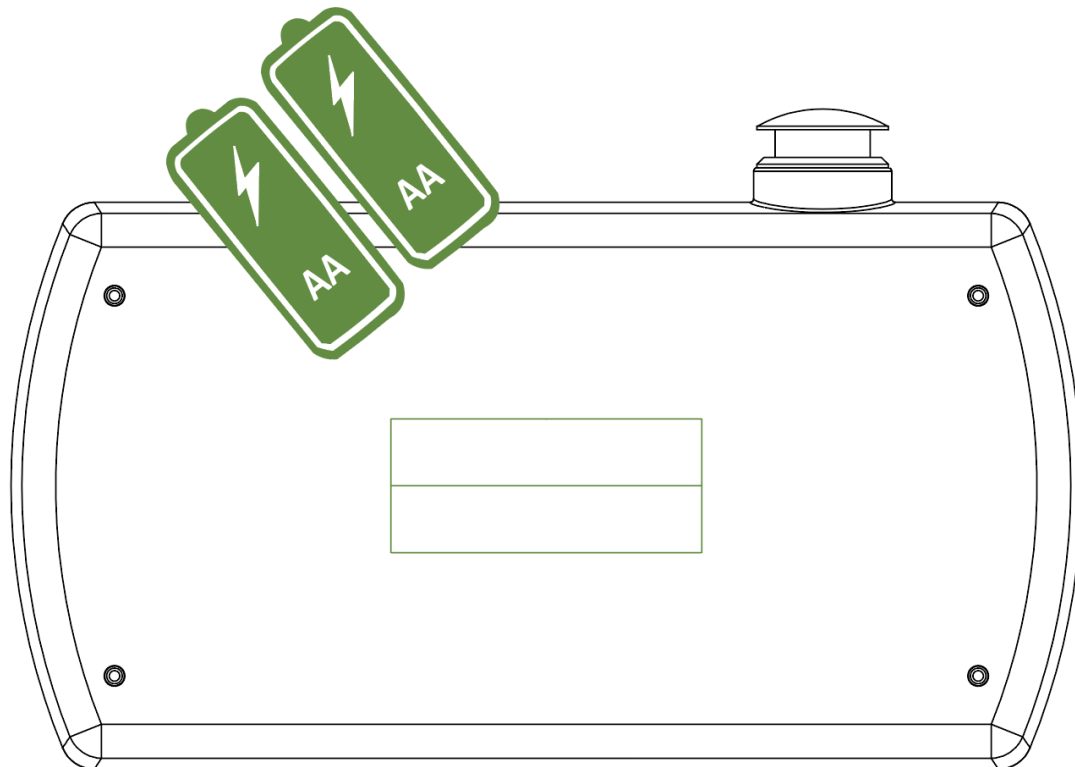


HOW TO CHANGE THE REMOTE CONTROL BATTERY

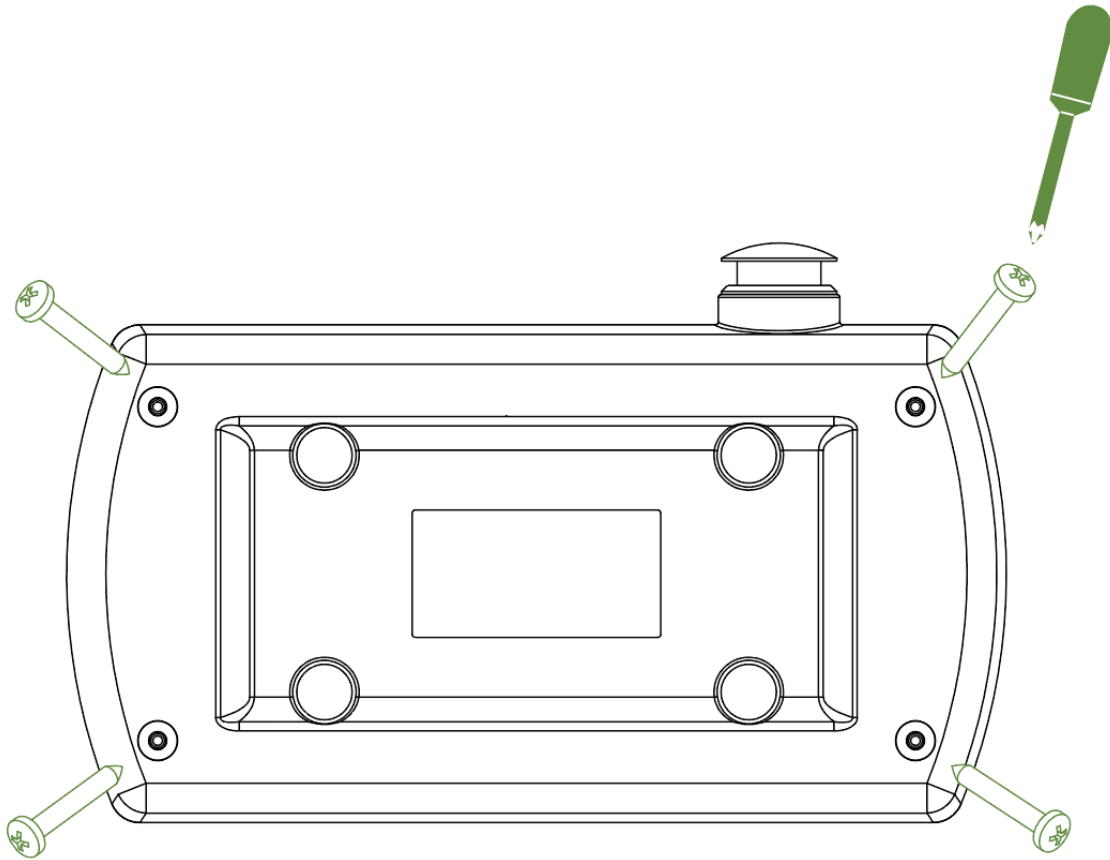
1. Unmount 4 screws(ST2.6x16) with screwdriver(PH2). Put remote control back cover and 4 screws aside. We will reuse later.



2. Take off 2 old AA batteries and discard them. Place 2 new AA batteries.

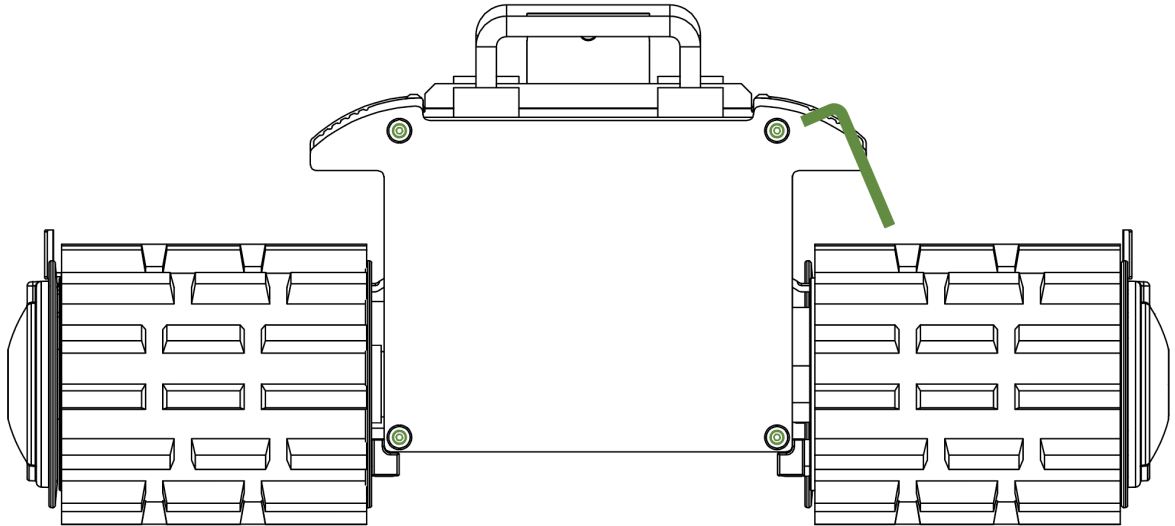


3. Re-mount the back cover with 4 screws.

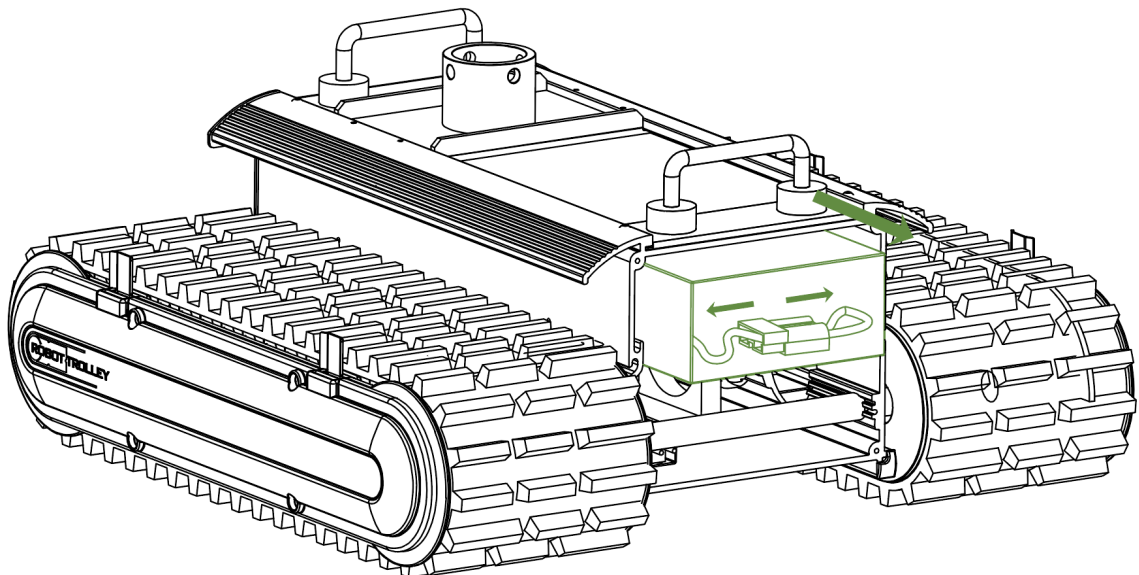


HOW TO REPLACE THE MACHINE BATTERY

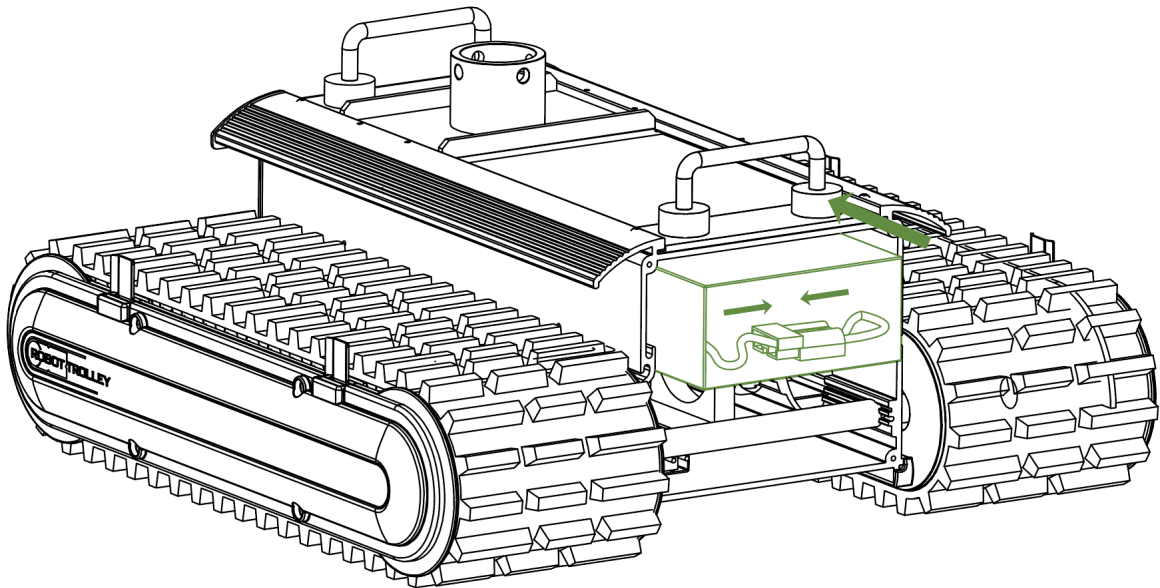
1. Unmount 4 HEX socket cap screws(M4x12) on the back cover with alley key and put them aside



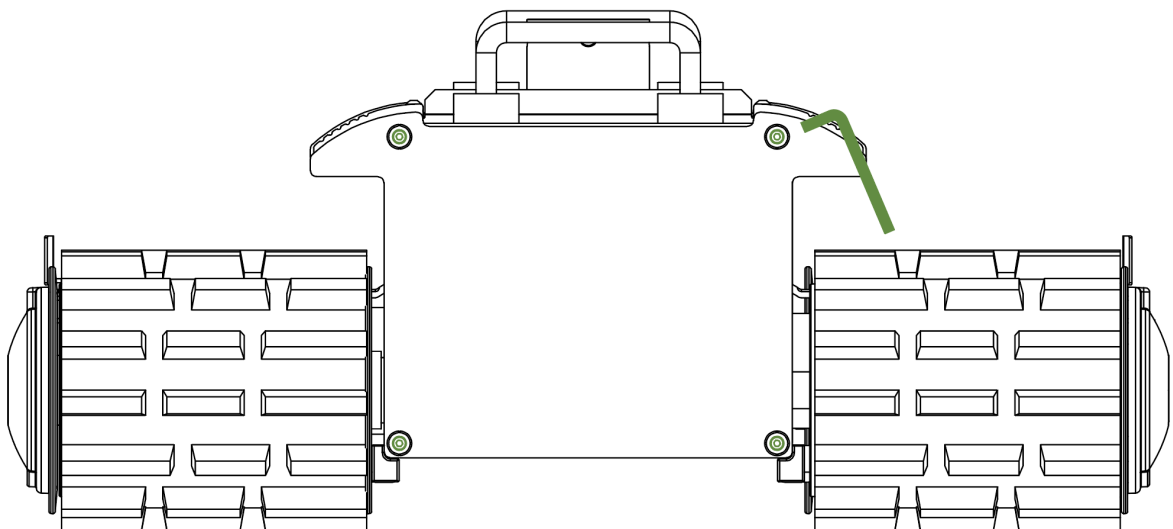
2. Disconnect the plugs and pull the battery out



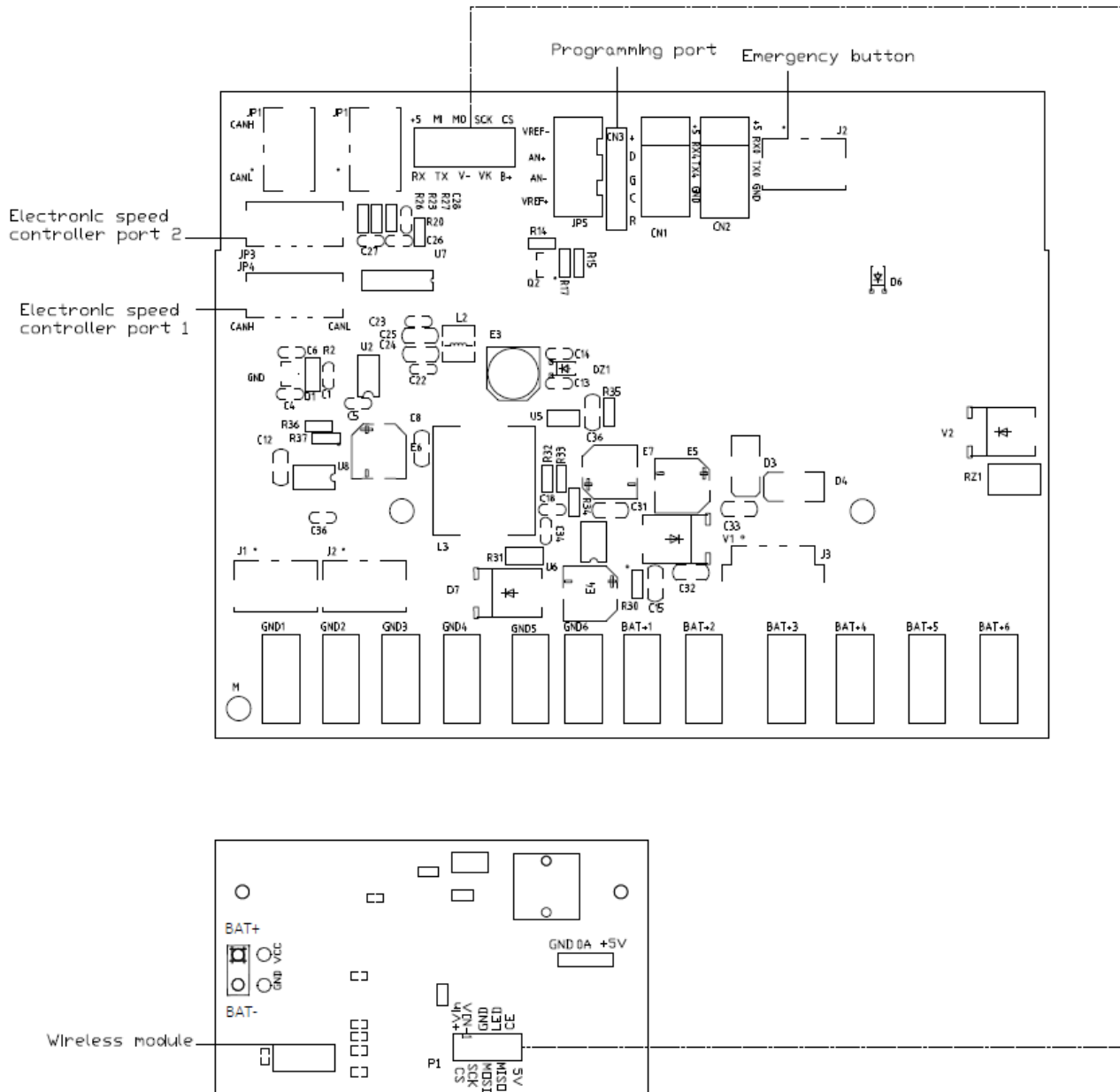
3. Insert a new battery. Connect the plugs.



4. Remount the back cover with 4 HEX socket cap screws



WIRE DIAGRAM



CARE AND MAINTENANCE

Detaching the Robot Trolley

Never leave the Robot Trolley mounted to the caravan while towing the caravan behind a car.

It is important that you always detach the Robot Trolley after use and place it in the storage box/bag together with the remote control.

When you have finished towing the caravan and you want to disconnect the Robot Trolley, pull the parking brake and adjust the nose/jockey wheel so that the caravan is slightly elevated. This takes the weight off the Robot Trolley.

Remove the cotter ring and use the remote control to move the Robot Trolley out of the lock fitting (or pull it out manually).

Cleaning

If you have used the Robot Trolley in wet or dirty conditions, you can clean it in the following manner:

Remove pebbles, clay, grass and the like from the belts. Then give it a gentle cleaning using a small amount of clean water and a brush or cloth. Do not use soap or cleansing agents or a high-pressure cleaner.

Storage

Put the Robot Trolley in the transport box/bag delivered from the factory. If the storage box/bag should become damaged, discard it. A new plastic storage box/bag may be obtained from your Robot Trolley distributor.

Store the Robot Trolley in dry, frost-free conditions.

Do not store the Robot Trolley in direct sunlight or at high temperatures. High temperatures may drain the battery quickly.

Maintenance

The Robot Trolley should be operated at least every second month in order to keep the battery healthy.

If the Robot Trolley goes unused for more than two months, it is highly recommended that you operate the Robot Trolley for a short while and then charge the battery until the LED on the charger turns green, in order to maintain maximum battery life and performance.

Repair

Please contact your local dealer for repair issues.

F A Q

- **What dimensions can the Robot Trolley handle?**
 - A Robot Trolley can handle any sized trailer provided it meets the weight limits of that particular model. We recommend inviting a second person to guide your trailer from the opposite end, especially in tight spaces, as turning requirements can vary widely according to the trailer's dimensions.
- **Will the Robot Trolley work on my double-axle trailer?**
 - Yes, as long as your trailer weight distribution is properly shifted toward the front of the trailer.
- **What vehicle types does the Robot Trolley support?**
 - The Robot Trolley supports recreational vehicles (RVs), boats, and other similarly sized towable vehicles.
- **Is the Robot Trolley motorized?**
 - The Robot Trolley is fully motorized with a lithium-ion battery and remote control.
- **What happens if you lose control of the trailer?**
 - The Robot Trolley has an integrated brake which will automatically engage when the motor is stopped. However, the brake works most reliably on flat surfaces. If the unit is at the lowest end of a slope with the nose pointed down, the brake will slow the trailer until the surface flattens out. Depending on trailer weight and slope incline, the Robot Trolley may or may not be capable of bringing the trailer to a complete stop until the trailer is on level ground.
- **The Robot Trolley treads are slipping on the ground and not gaining traction. What should I do?**
 - For heavy boats, this problem may occur when there is insufficient weight on the tongue and excess weight on the tail. Consider shifting more of the trailer's weight forward or cleaning debris from the surface.

CERTIFICATIONS

EC Declaration of conformity

Manufacturer:

Kronings Engineering
Manufacturing(Ningbo) Co., LTD

No. 85, Jinhe Road, Nordic Industrial Park,
Zhenhai Ningbo 315221, Zhejiang, China

Authorized Representative:

Kronings Aps
Lammefjordsvej 5, 6715 Esbjerg N.
45 7022 5840

Robot Trolley

UMDNS-Code: 2014/30/EU

Product model: RT1500, RT2500, RT4500, RT1500RS, RT2500RS, RT4500RS,
RT2500RS Mini, RT5500RS, Titan Mover, Atlas Mover.

Above is conformity with the applicable parts of the follow documents:

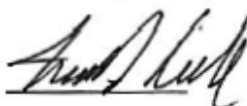
EN IEC 55014-1: 2021

EN IEC 55014-2: 2021

EN IEC 61000-3-2: 2019+A1: 2021+A2: 2024

EN 61000-3-3: 2013+A1: 2019+A2: 2021

Hereby declare that the parts named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable electromagnetic compatibility of the directives.

Signed by: 

Name: Troels Nakel

Position: GM

Done at: Ningbo city

Date: Sep 29th 2025

EC Declaration of conformity

Manufacturer:

Kronings Engineering
Manufacturing(Ningbo) Co., LTD

No. 85, Jinhe Road, Nordic Industrial Park,
Zhenhai Ningbo 315221, Zhejiang, China

Authorized Representative:

Kronings Aps
Lammefjordsvej 5, 6715 Esbjerg N.
45 7022 5840

Remote Control of Robot Trolley

RED: Directive 2014/53/EU

Product Range: RT1500, RT2500, RT4500, RT1500RS, RT2500RS, RT4500RS,
RT2500RS Mini, RT5500RS, Titan Mover, Atlas Mover.

Above is conformity with the applicable parts of the follow documents:

EN 301 489-1 V2.1.1

EN 300 220-1 V3.1.1

EN 300 220-2 V3.1.1

Hereby declare that the parts named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable electromagnetic compatibility of the directives.

Signed by: 

Name: Troels Nakel

Position: GM

Done at: Ningbo city

Date: Sep 29th 2025