

Maytronics M Series Tune Up Kit

Installation Instructions

Updated January 2025

Included Models:

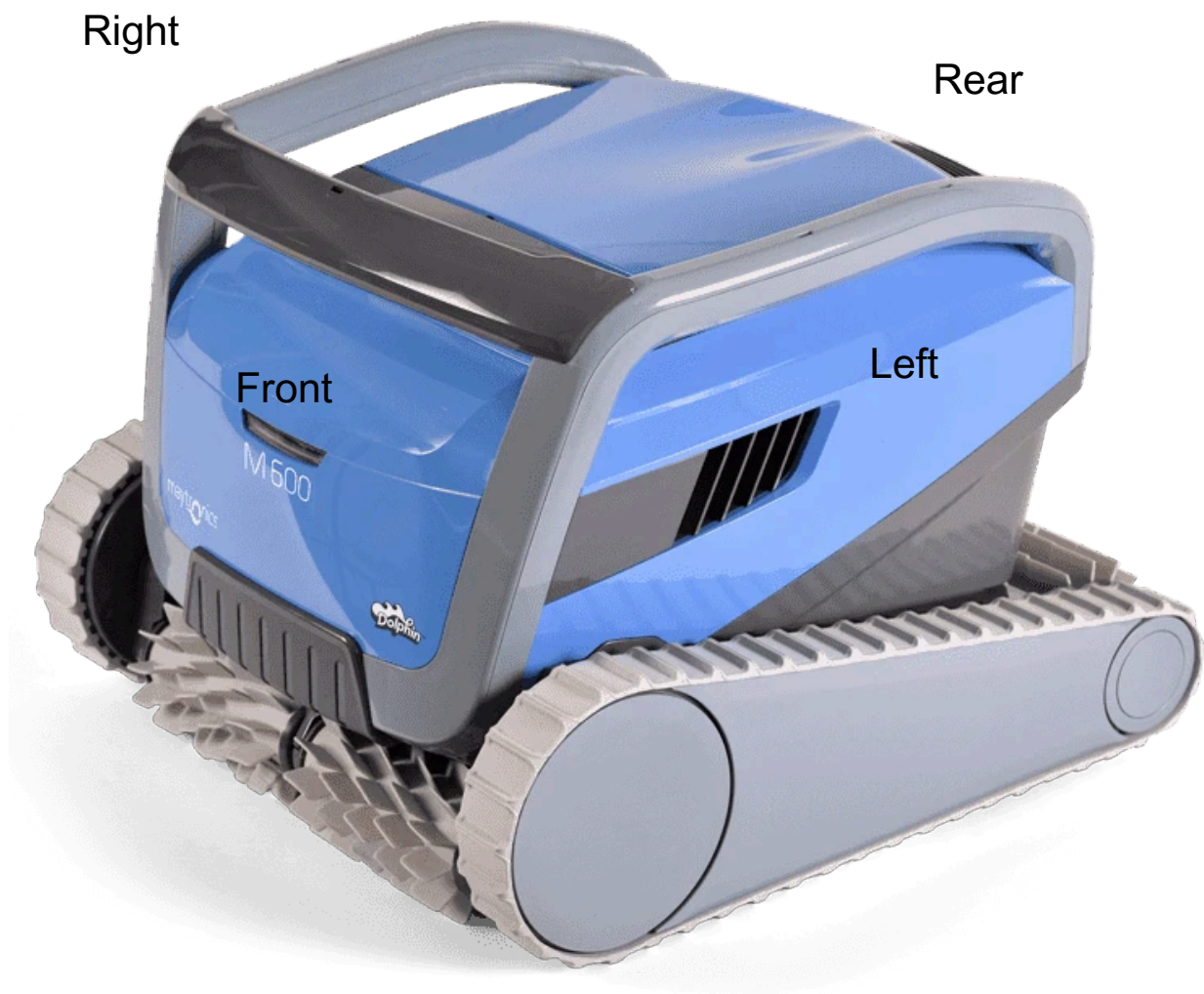
M700, M600, M550, X6, Trident Ultimate, AW6.

Disclaimer:

The self-repair on this model is far more difficult than other models such as the Maytronics S Series. The installation of the tune-up kit on the M Series requires full disassembly of the robot down to the chassis, including the removal of the motor from the chassis. Whilst this isn't impossible, it does require a little more time and methodical disassembly and reassembly.

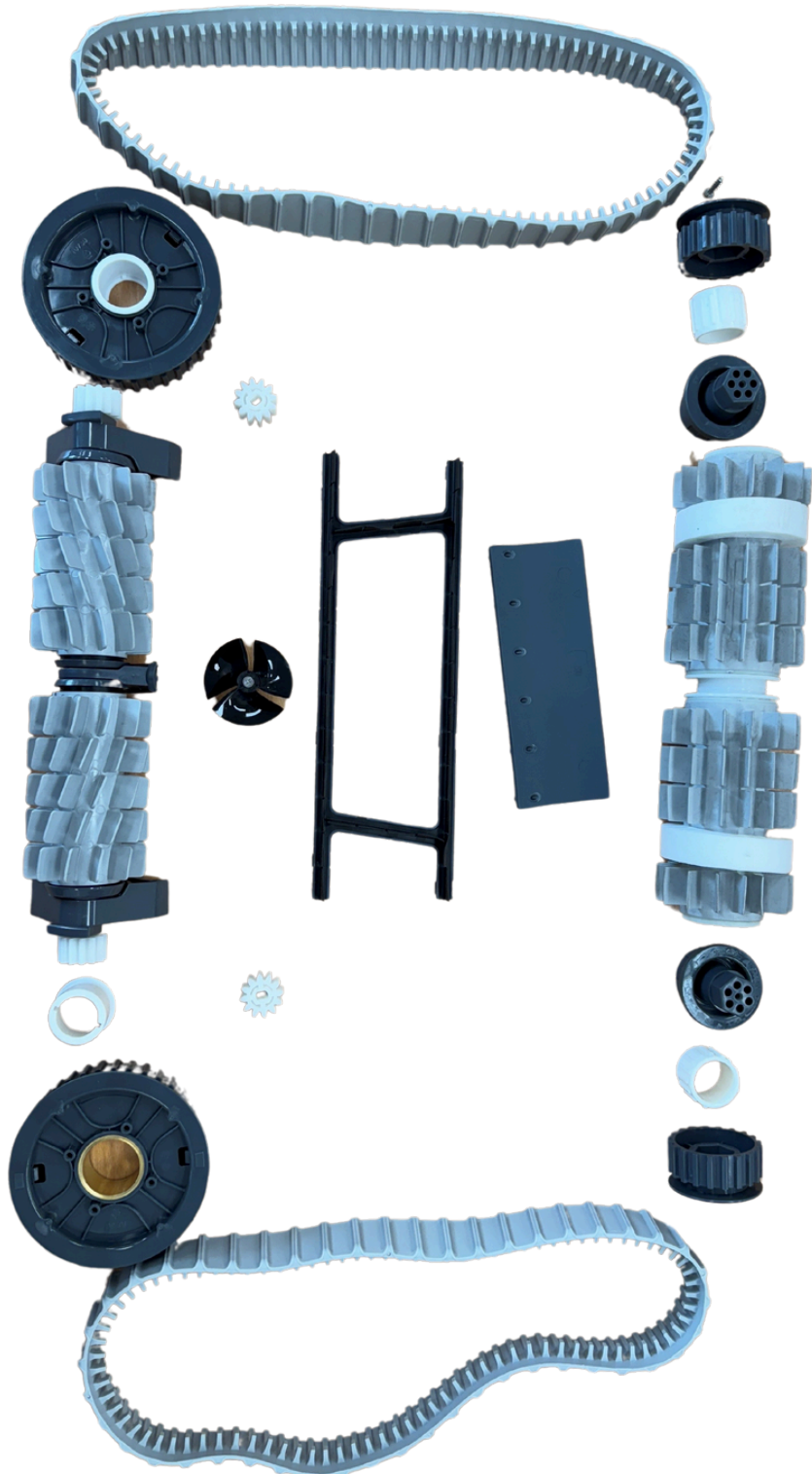
Please thoroughly read through these instructions before attempting a repair. Take care to lay out each removed part along with the associated screws.

Note that many parts on the M Series are designated Left and Right so please note the robot orientation below.



Included Parts and layout:

- 2 x Tracks
- 2 x Front wheels with Brass insert
- 2 x Front wheel bushing
- 1 x Front Roller assembly
- 2 x Rear wheels
- 2 x Rear wheel adapters
- 2 x Rear Wheel Bushings
- 1 x Rear Roller Assembly
- 2 x Gear Z12
- 1 x Vacuum Strip Assembly
- 1 x Rapid Drain Flap



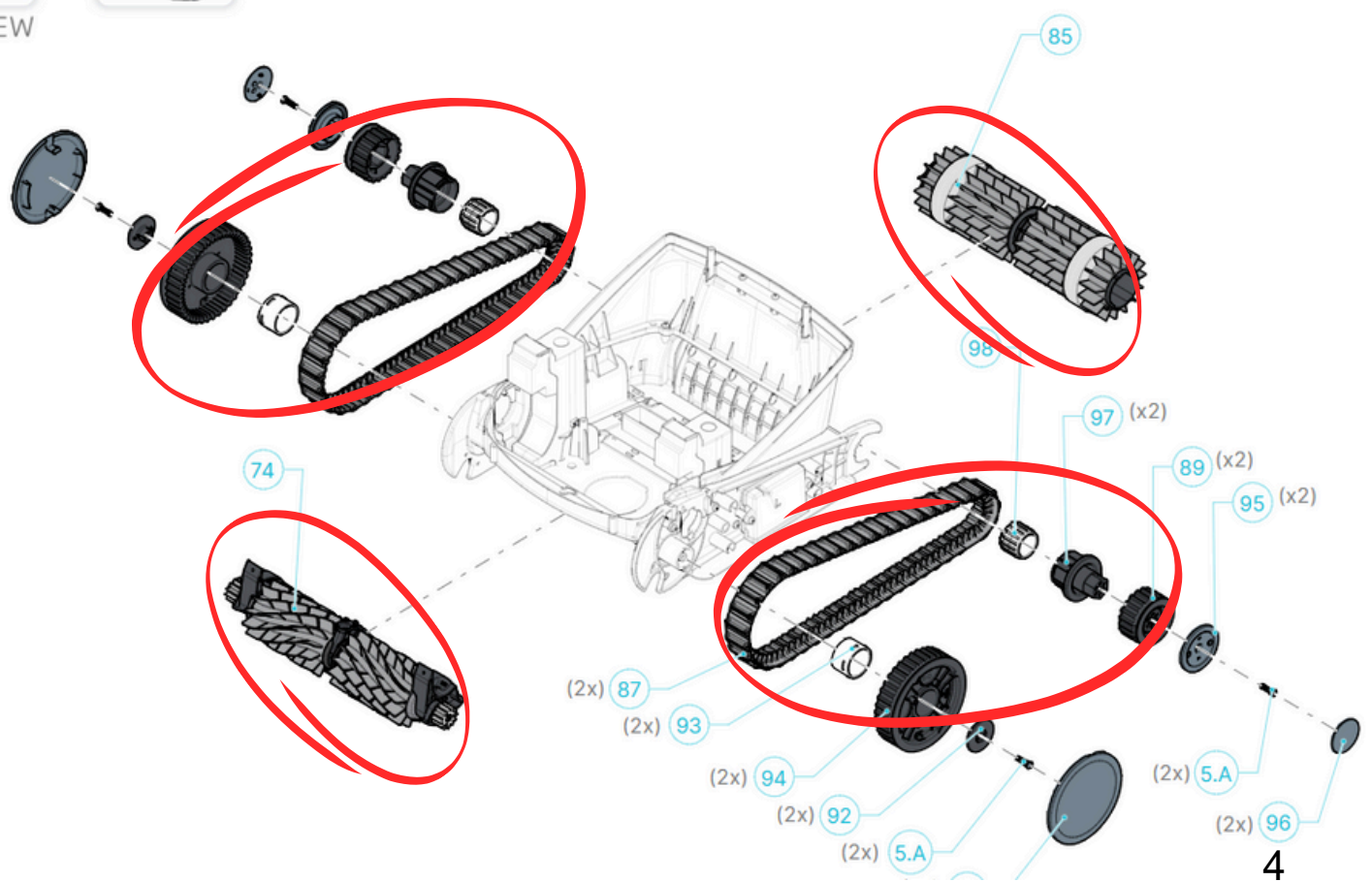
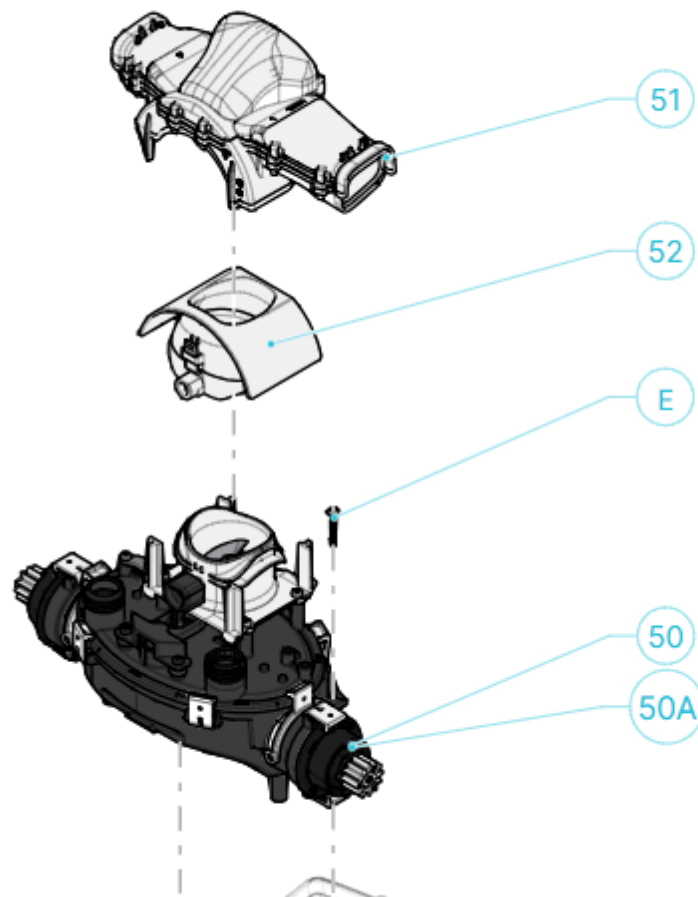
Tools Required:

Medium flat head screwdriver
Small flat head screwdriver
Medium Philips head screwdriver
Long nose pliers

Note: If using an electric screwdriver, set the torque setting to a maximum of 15. Robots are assembled from plastic parts using stainless screws, over tightening screws can damage the robot.



Exploded Diagrams



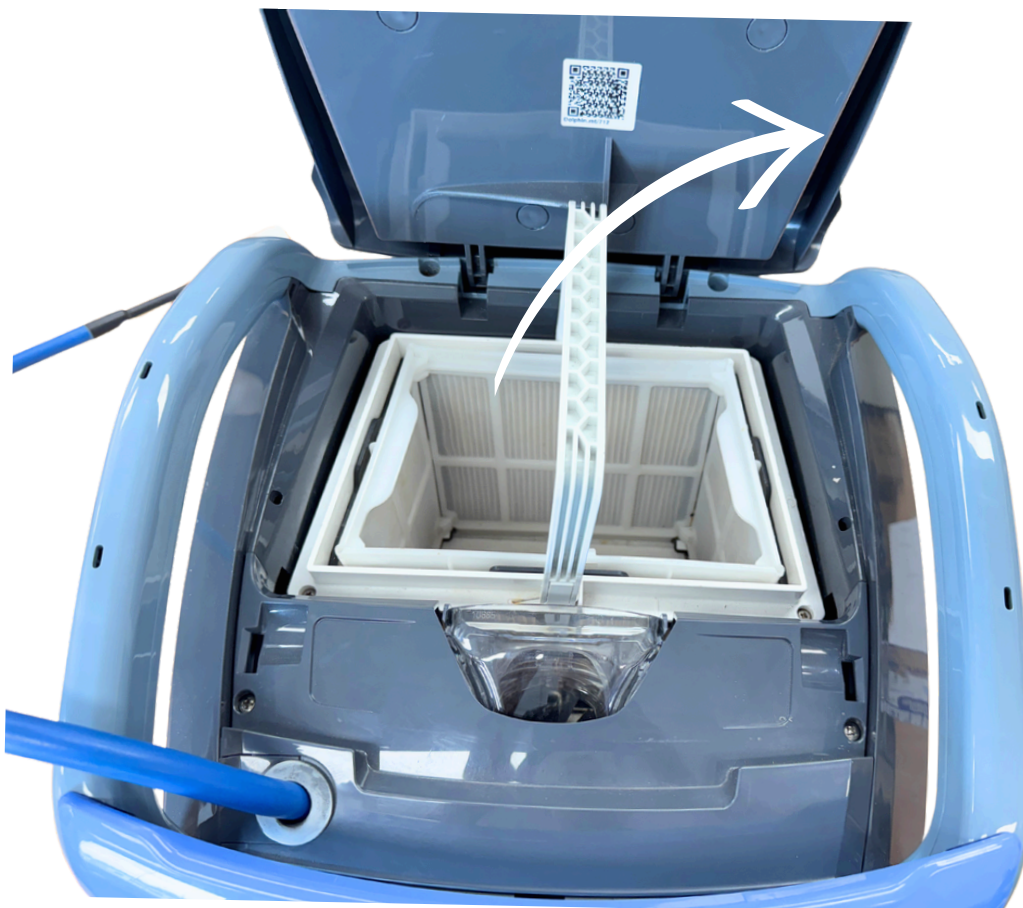
Step 1 - Disassembly

1a. Swivel Separation

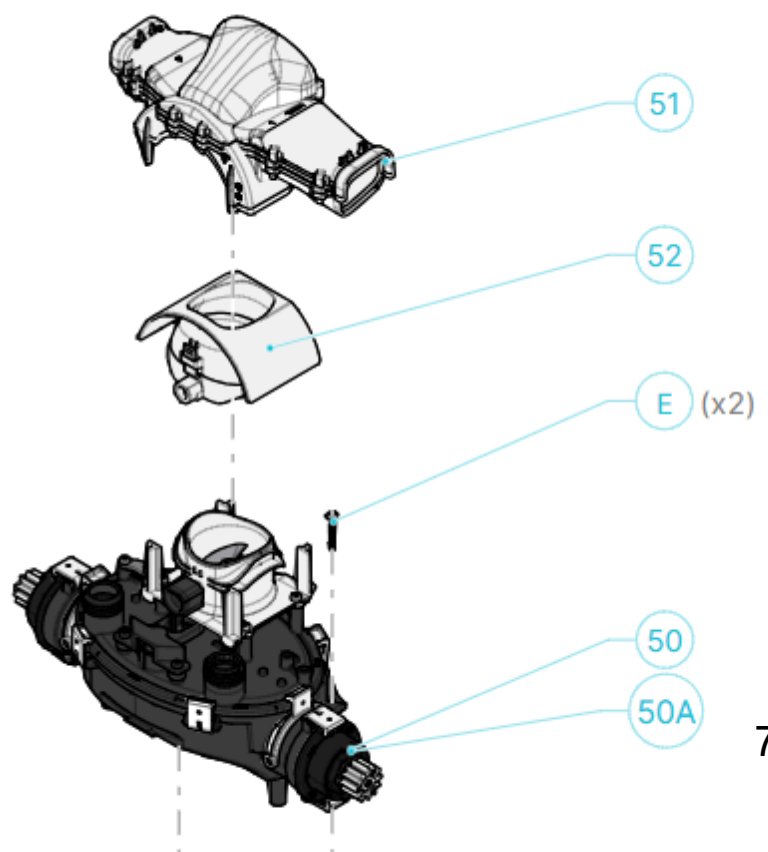
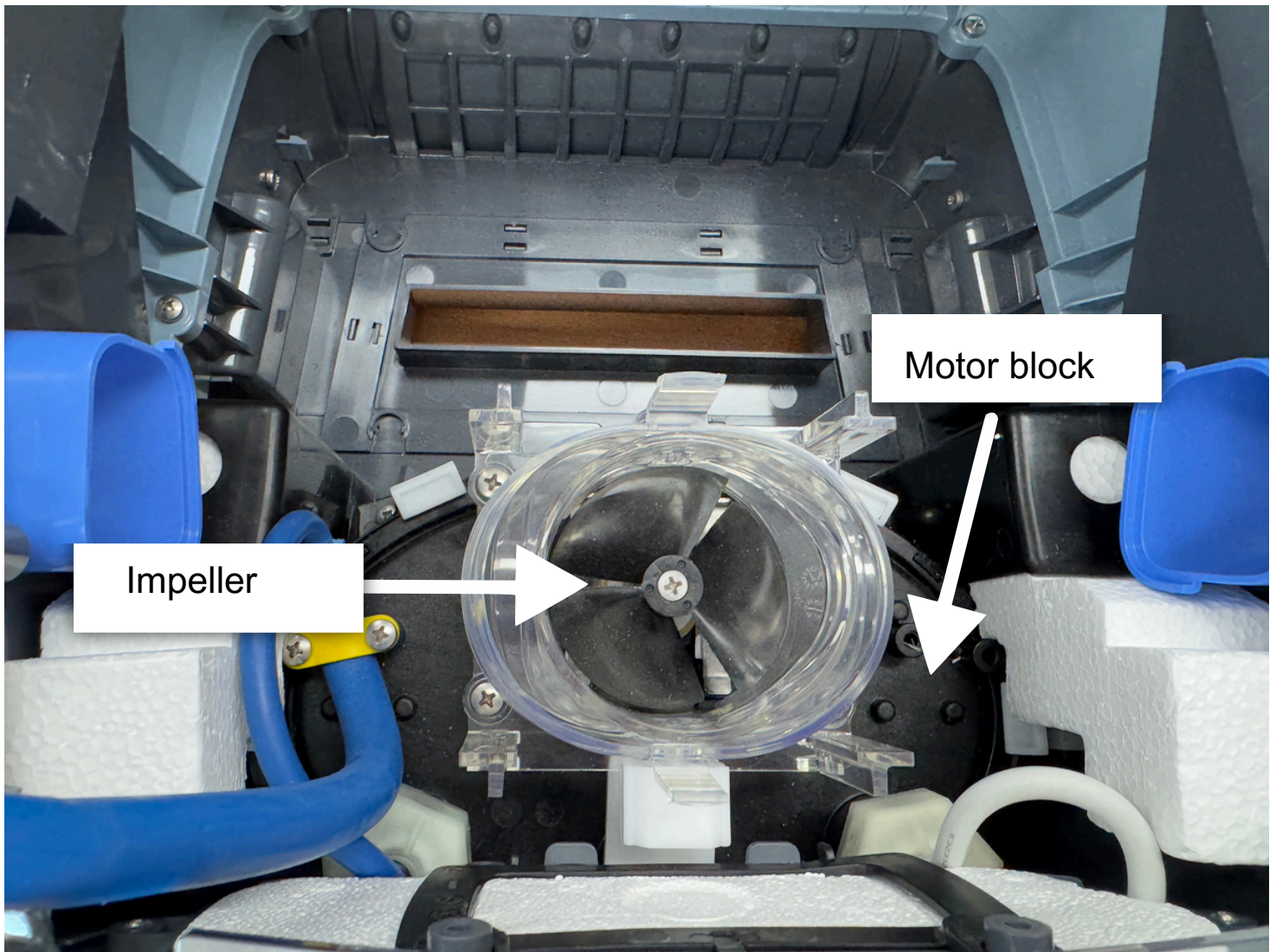
Opening the swivel will allow you to put the 18m cable aside which makes servicing easier. A pair of multi grips will allow you to open this, take care not to overtighten. Inspect the pins and internal components for signs of corrosion, if there is water in the swivel, the cable will need to be replaced.



1b. Remove the filter basket



With the manifold and water tube removed you are looking directly at the motor and exposed impeller.



Next you'll need to remove the front panel from your robot.



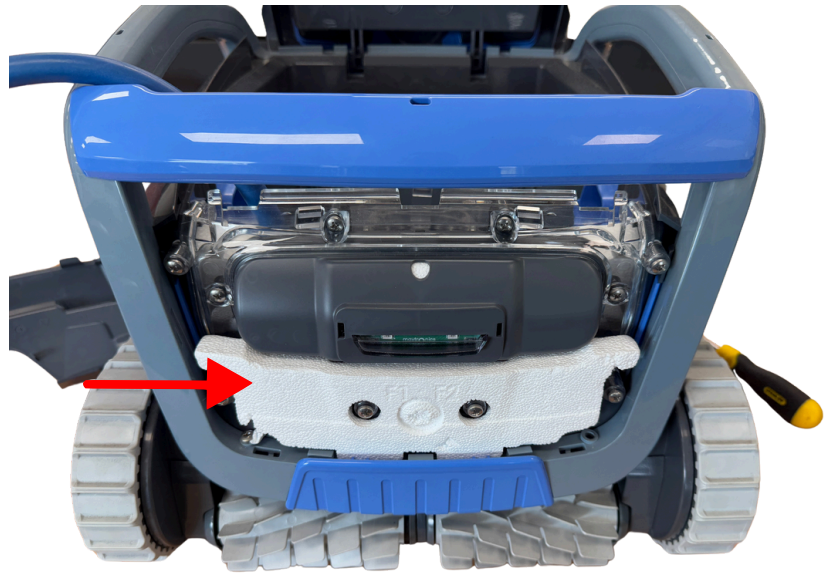
1e. Front Panel

Using a medium flat head screw driver, carefully lever the panel from the top corner up and out. Once it clicks out you'll be able to lift it up and out.



1f. Float Removal

With the front panel removed, now remove the styrofoam float. These can be fragile so be careful.



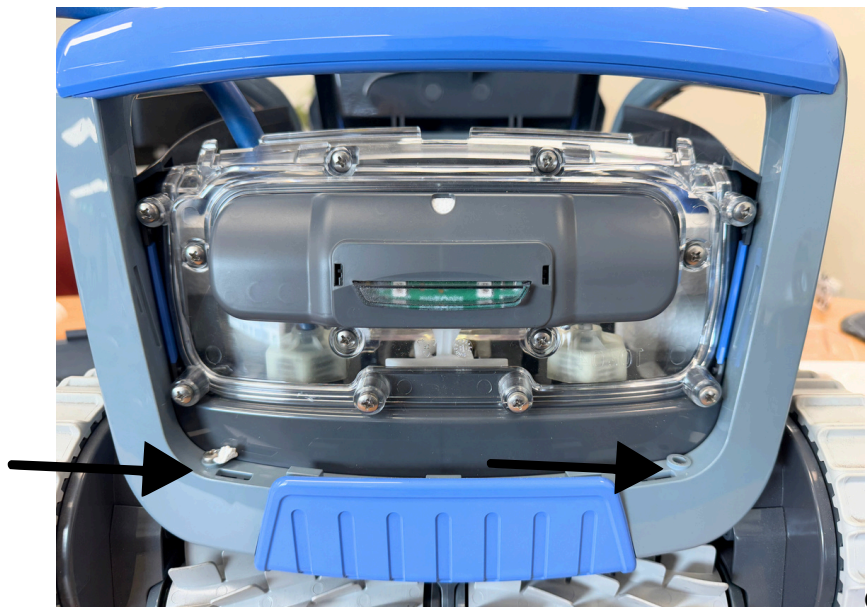
1g. Body Removal

Remove four screws holding the robots body to the chasis



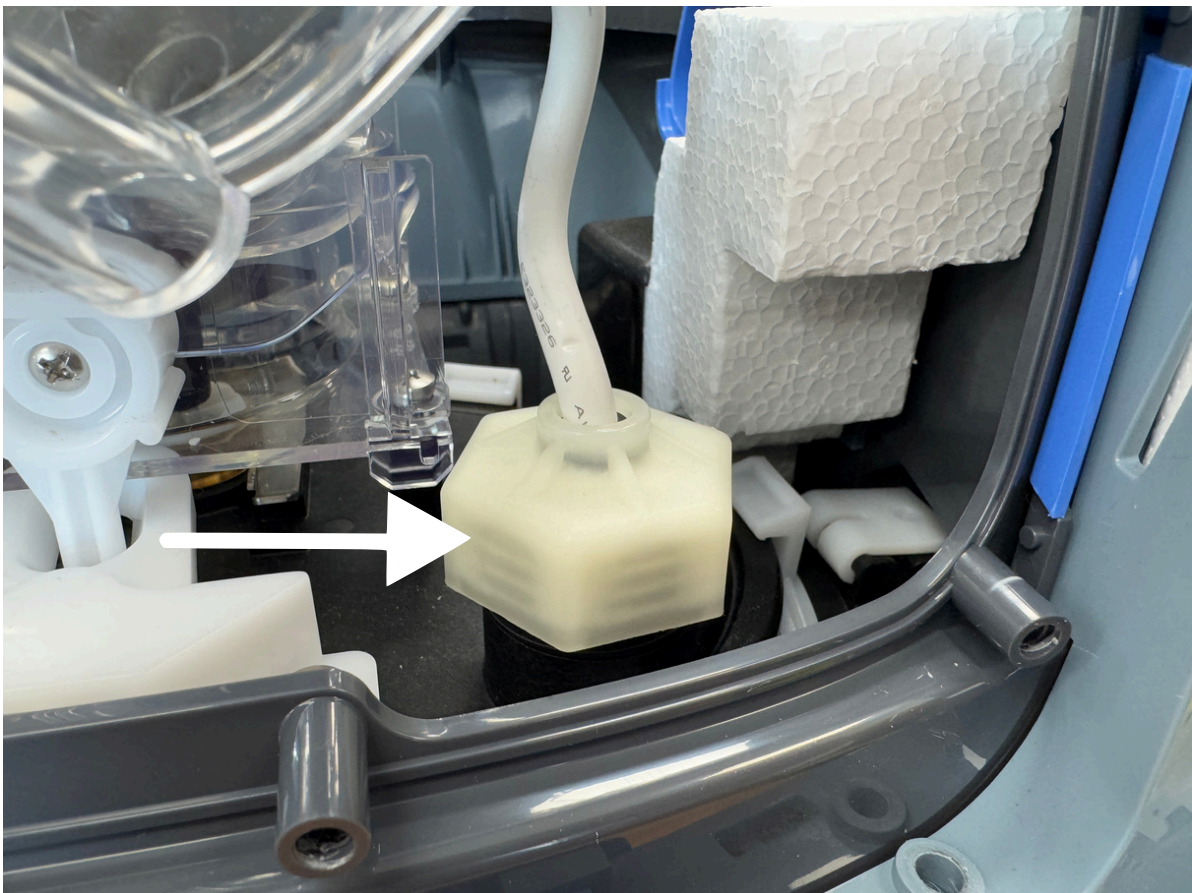
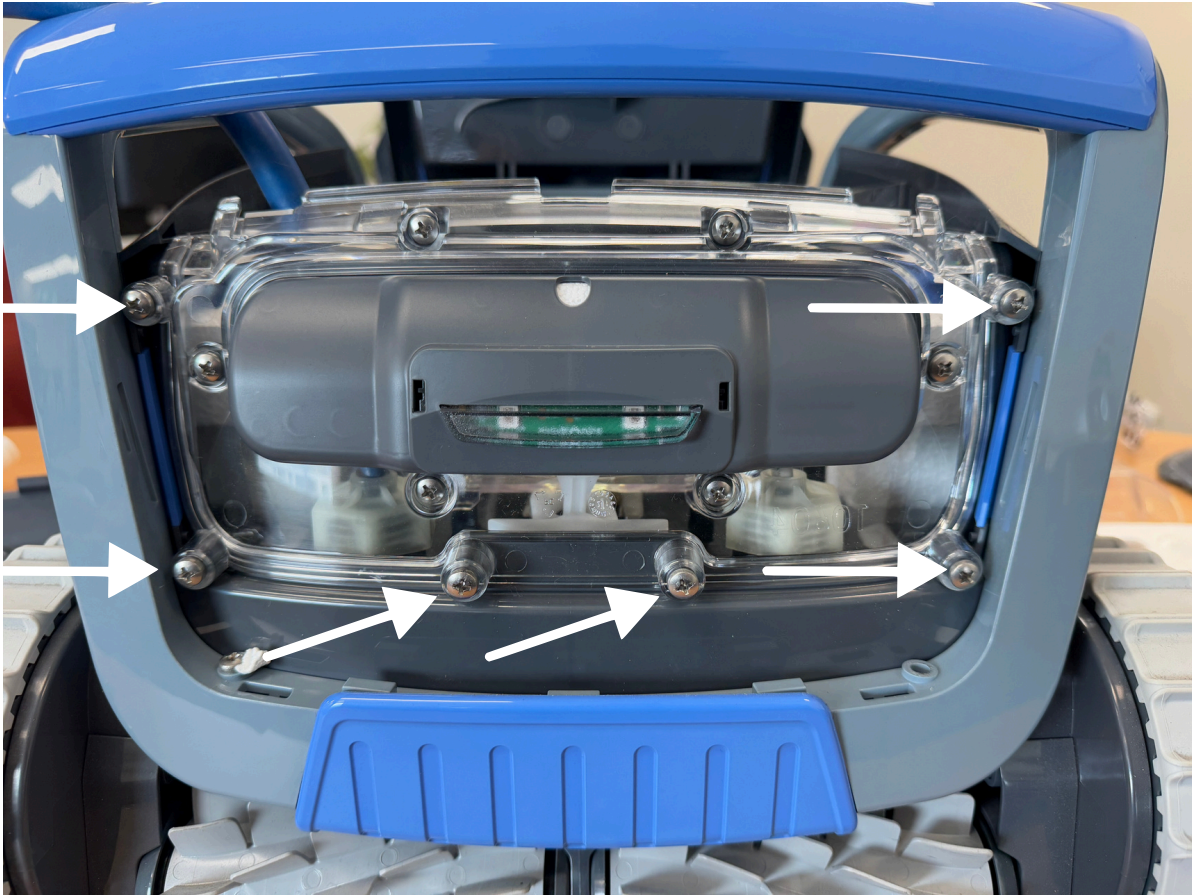
1h. Body Removal

Remove the two long screws from the front of the robot



1i. LED Removal

Unscrew 6 screws holding the LED and disconnect the LED panel from the motor block. Check for water inside the LED, any water will mean you need to replace the LED.



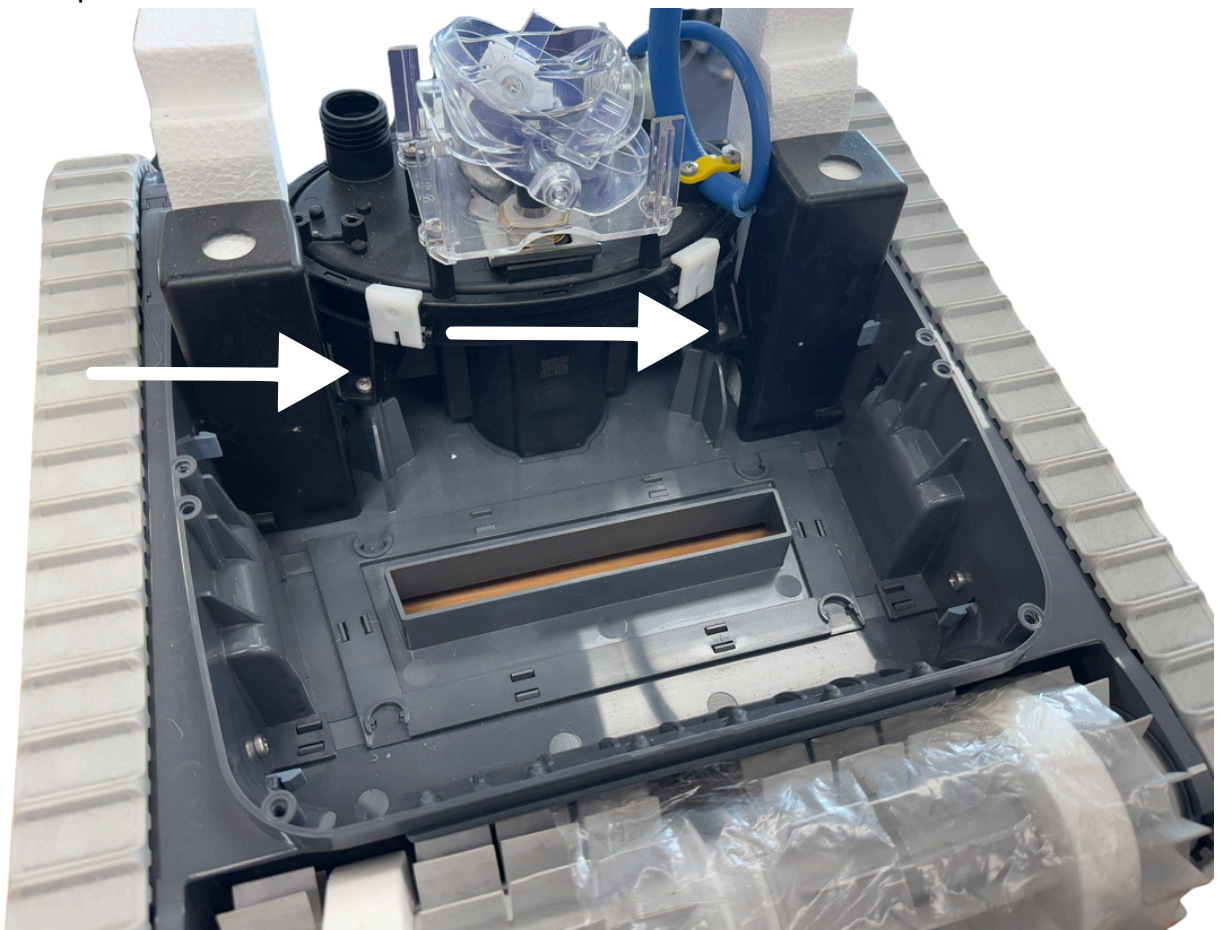
1j. LED Removal

With the LED removed you can now lift the body of your robot off the chassis. Allow the short cable to pull through the body carefully.



1l. Motor Block Removal

You'll now need to remove the motor block, this is a multi-step process which includes removal of the front and rear wheels. First, remove the two screws holding the motor block in place.



1m. Rear Wheel Cover Removal

Remove the rear (small) wheel covers using a small flathead screwdriver. The clips that hold the wheel covers in place are small so be careful not to break them.

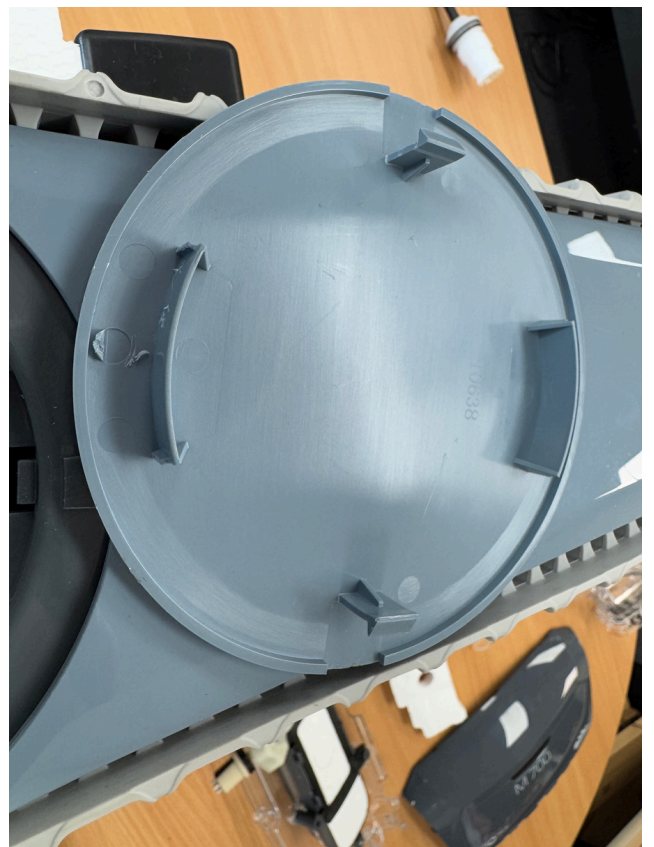
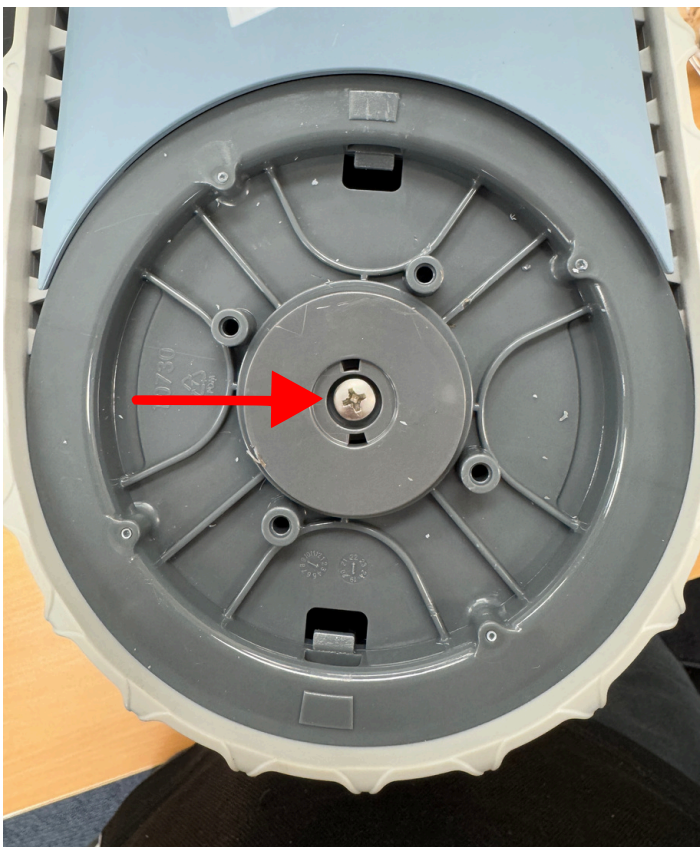
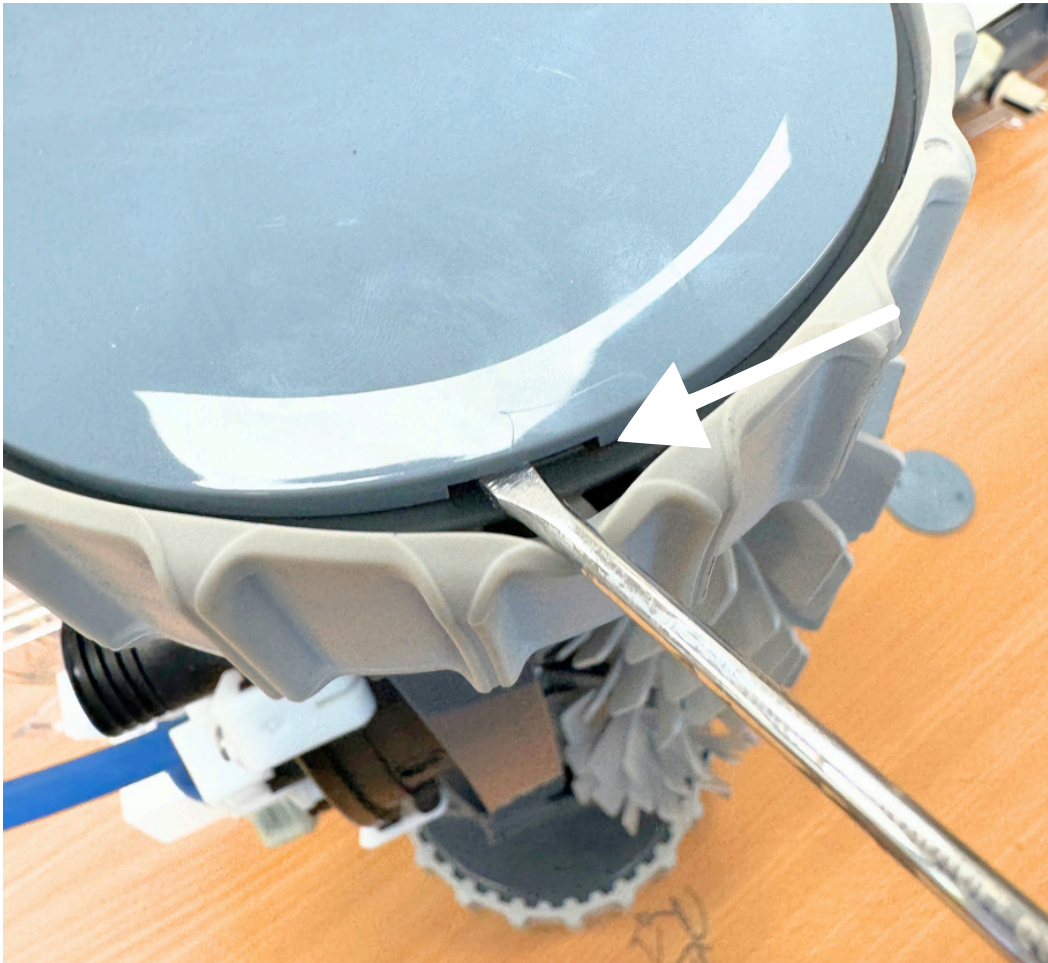


Rear wheel cover showing small clips that hold it in place

1n. Front Wheel Cover Removal

Remove the front (large) wheel covers using a medium flat head screwdriver. Again be careful not to break the clips. On the front wheel, you need to locate the cut-out on either side of the wheel that allows you to get a screwdriver in and manipulate the clip free of the wheel.

You can then remove the screw from the wheel.



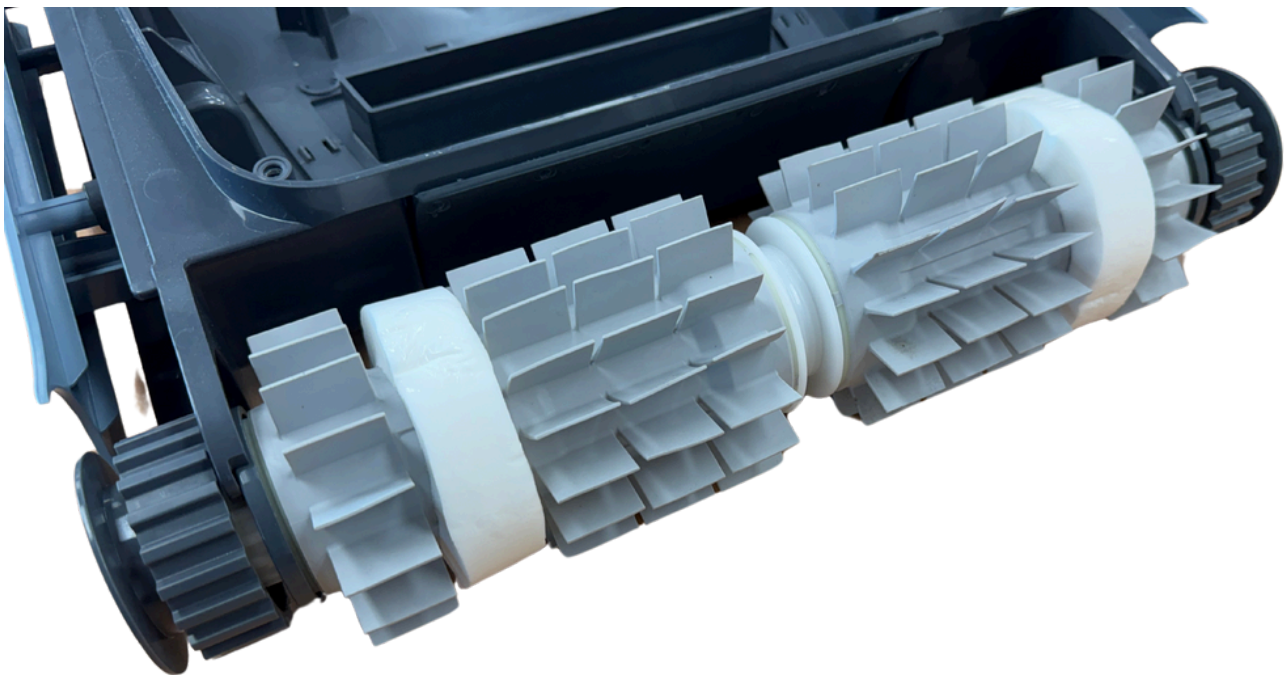
1k. Track Removal

You can now remove the tracks from your robot. Simply peel the tracks off the outside of the front wheel.



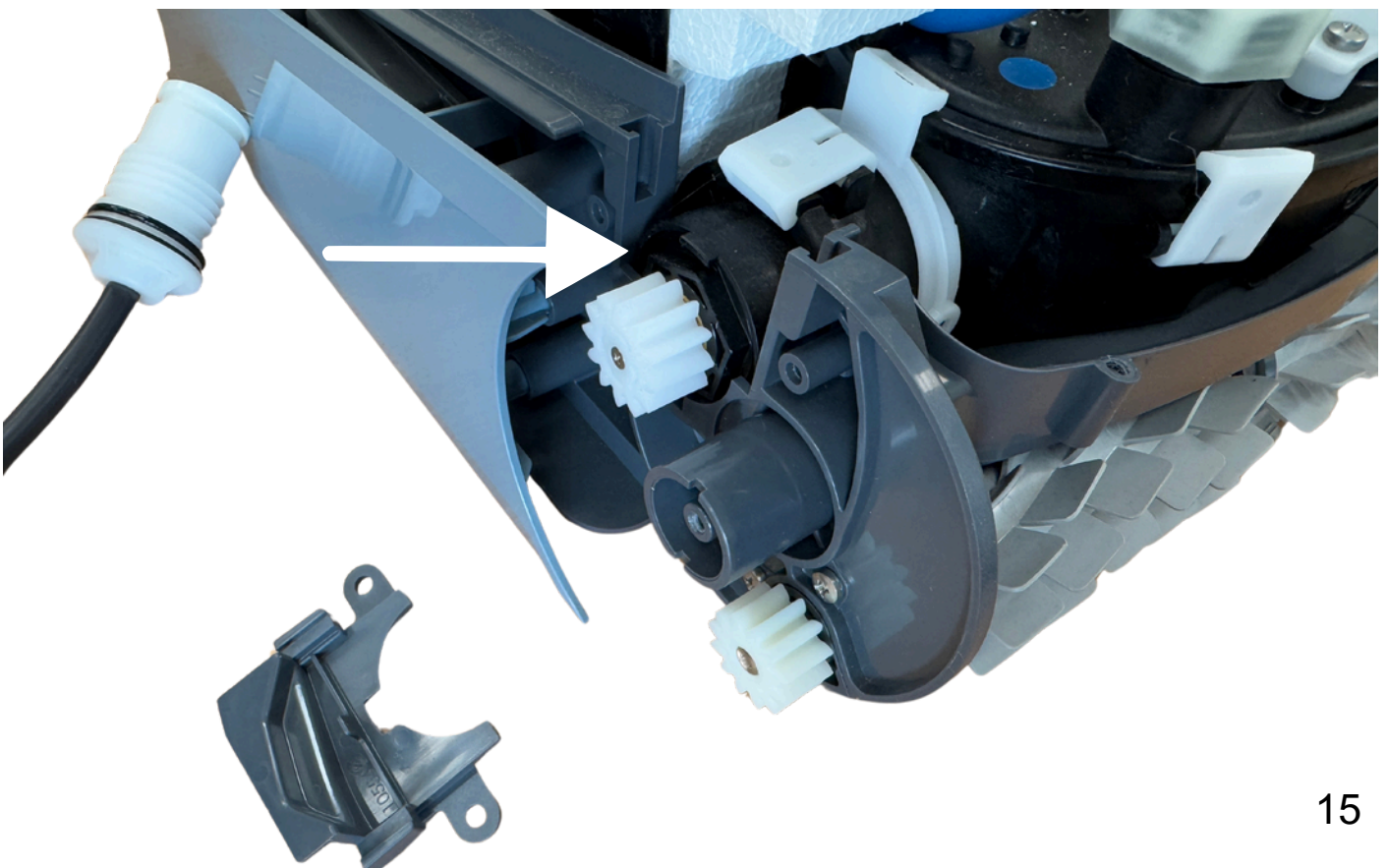
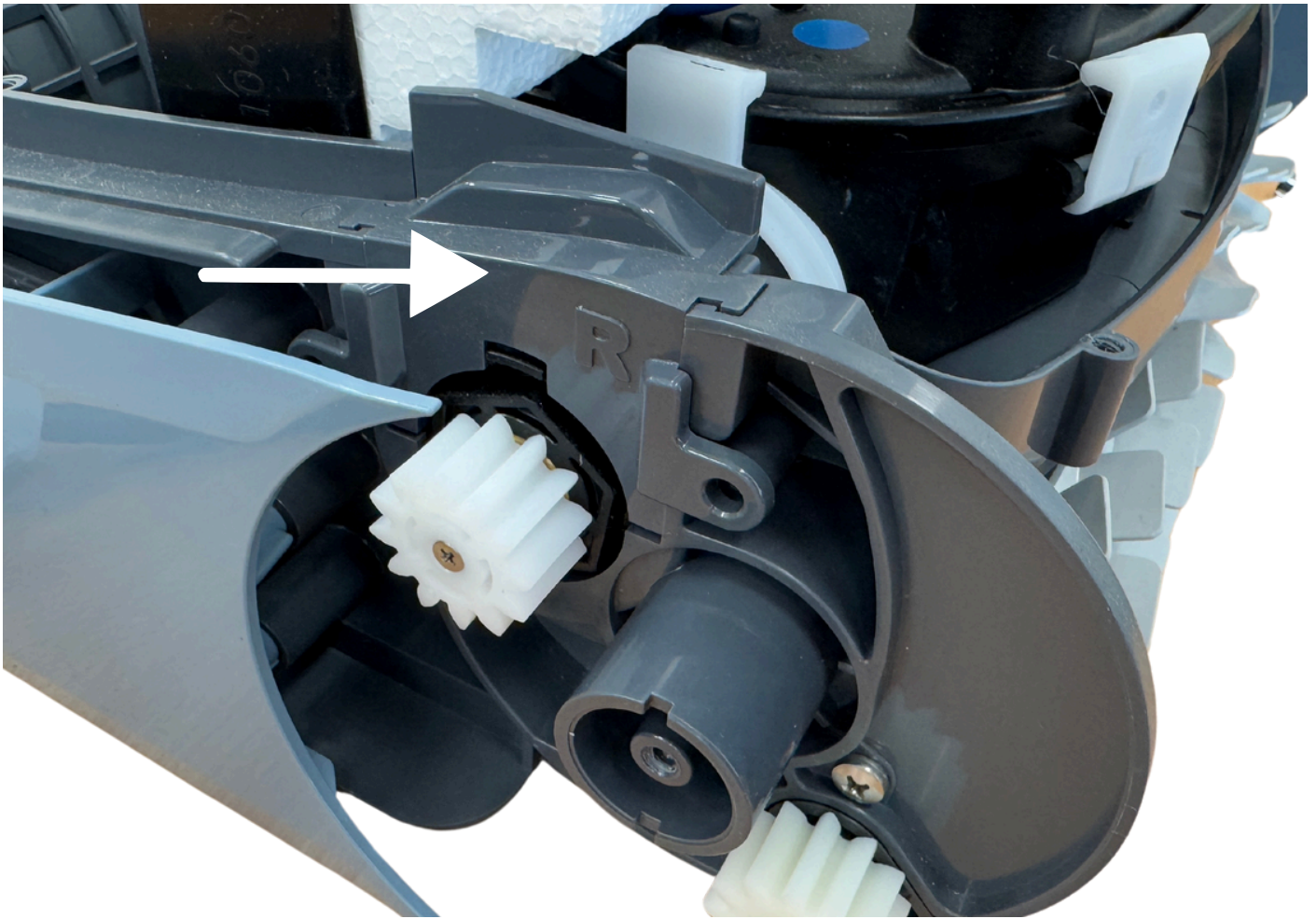
1l. Rear Roller Removal

With the tracks removed, the rear roller can be removed from the chassis. This part is included in the tune-up kit however you do need to retain the screws and wheel covers, so don't discard it yet.



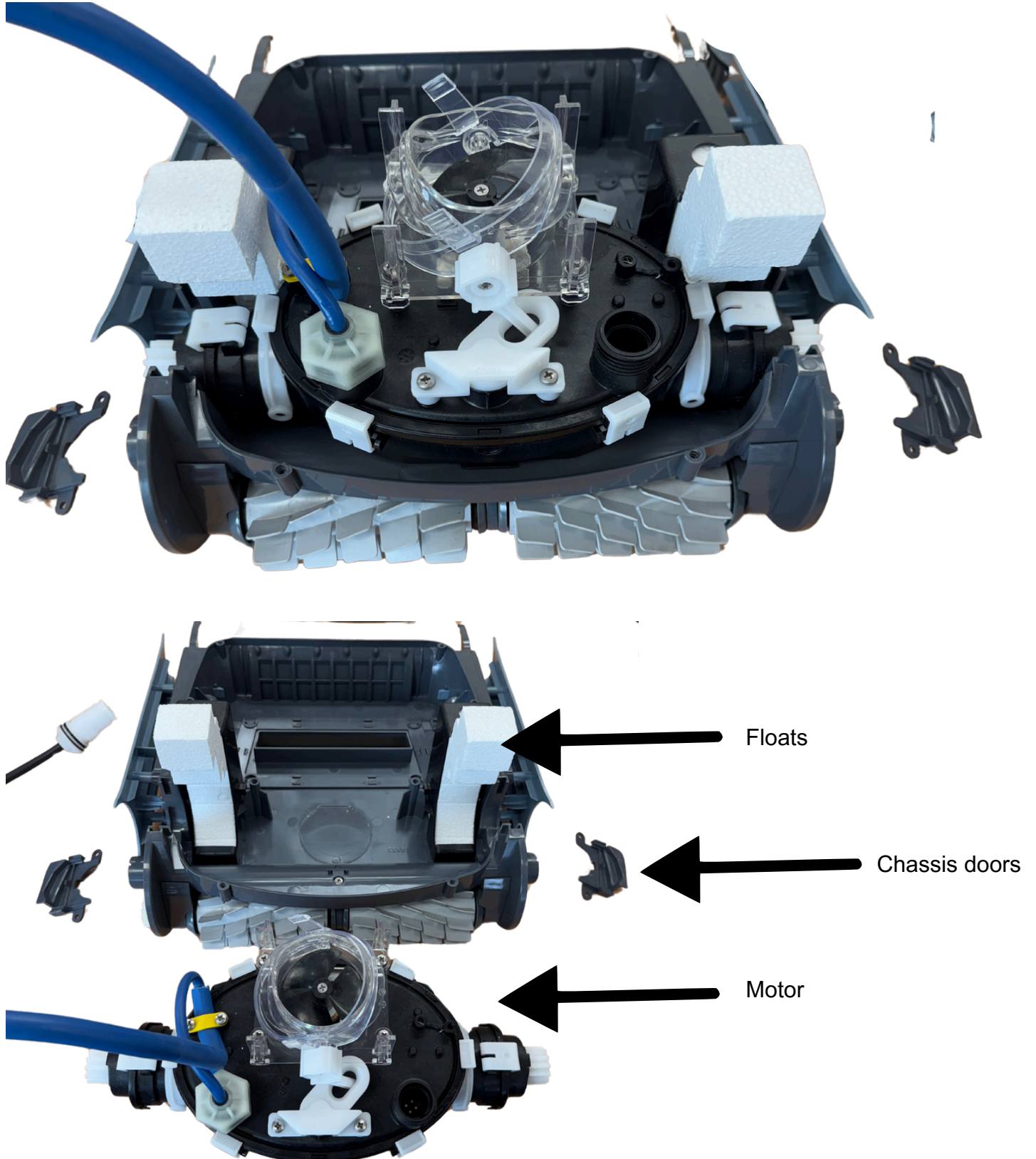
1p. Chassis Door Removal

With the wheel removed you can now lift the 'chassis door' which hold the drive gears in place. Remove this part on both the left and right side.



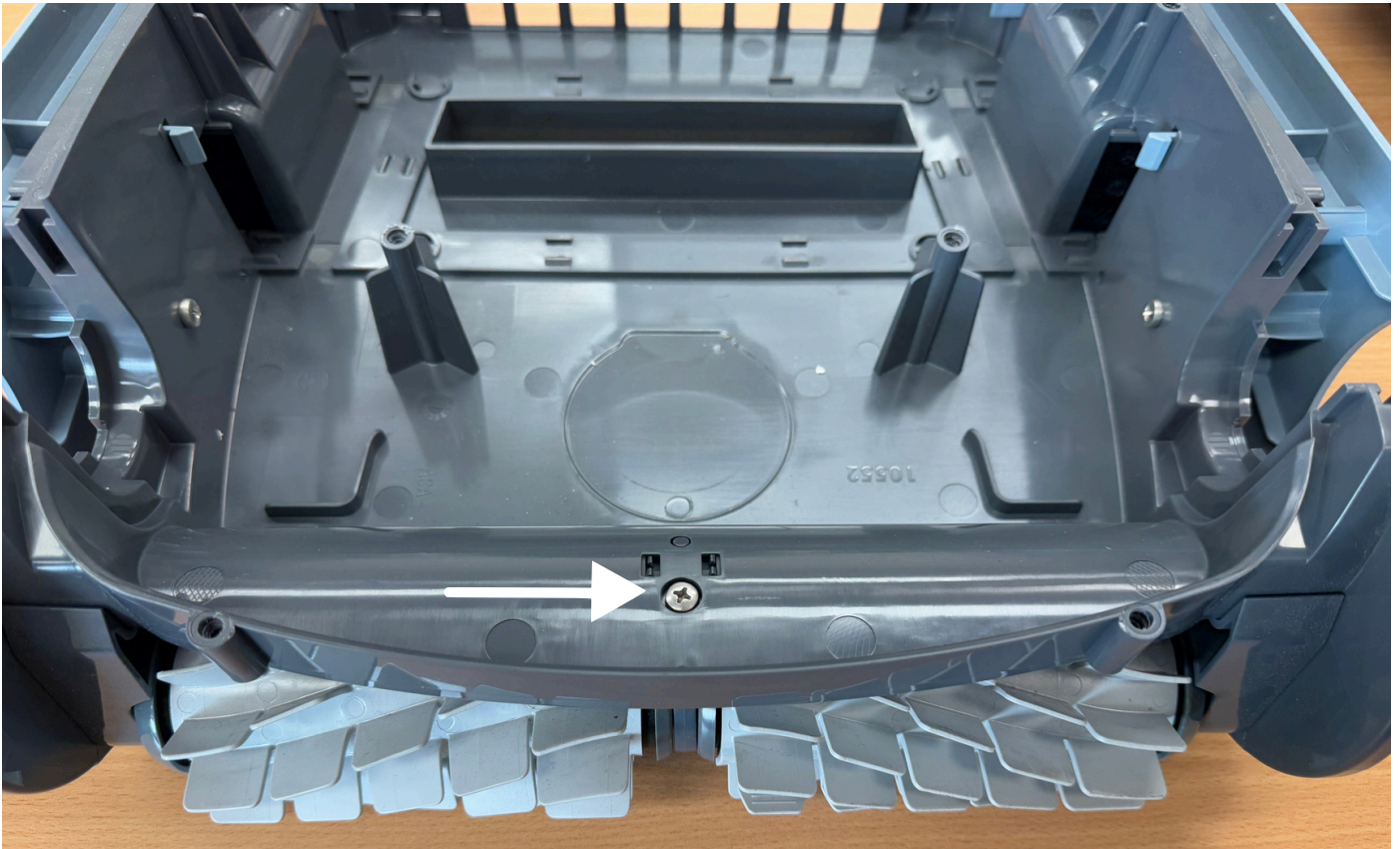
1q. Motor Removal

Once the two chassis doors have been removed, the motor can be lifted out. The two floats will come out as the motor is removed. These are labeled left and right.

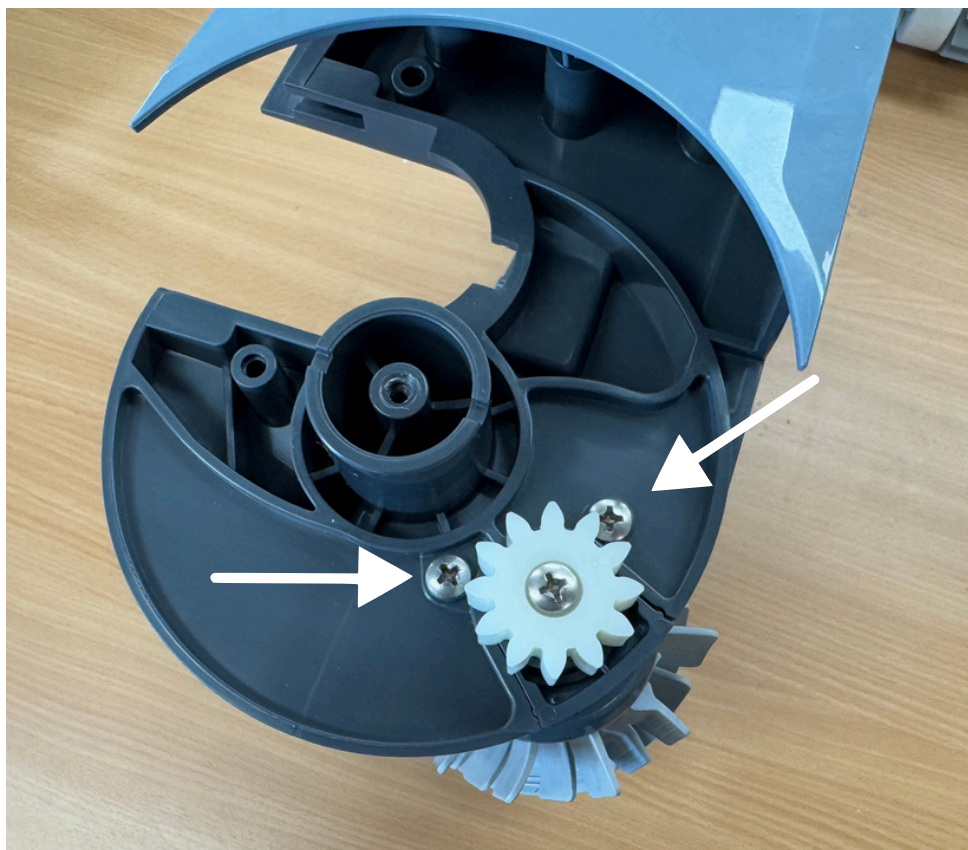


1s. Front Roller Removal

The front roller assembly can now be removed. Remove the central screw shown below.

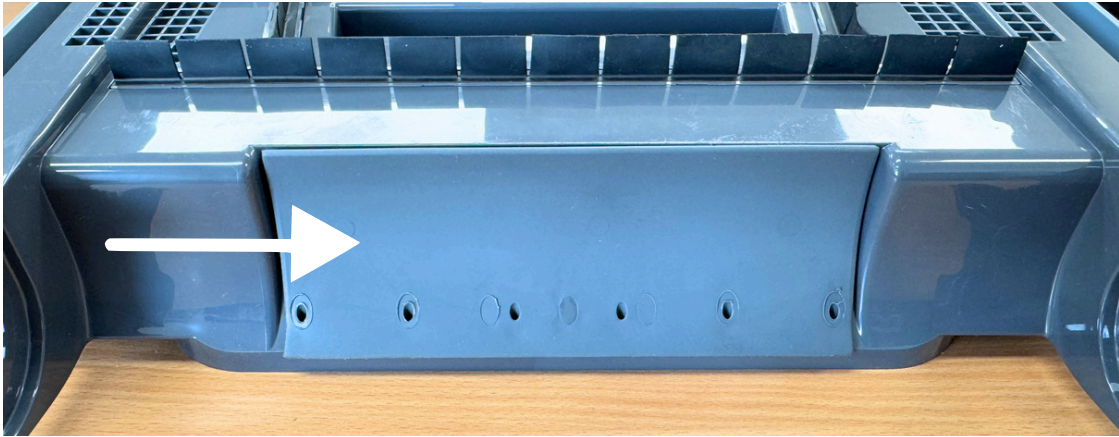


Remove the two screws from the left and right of the robot shown below.



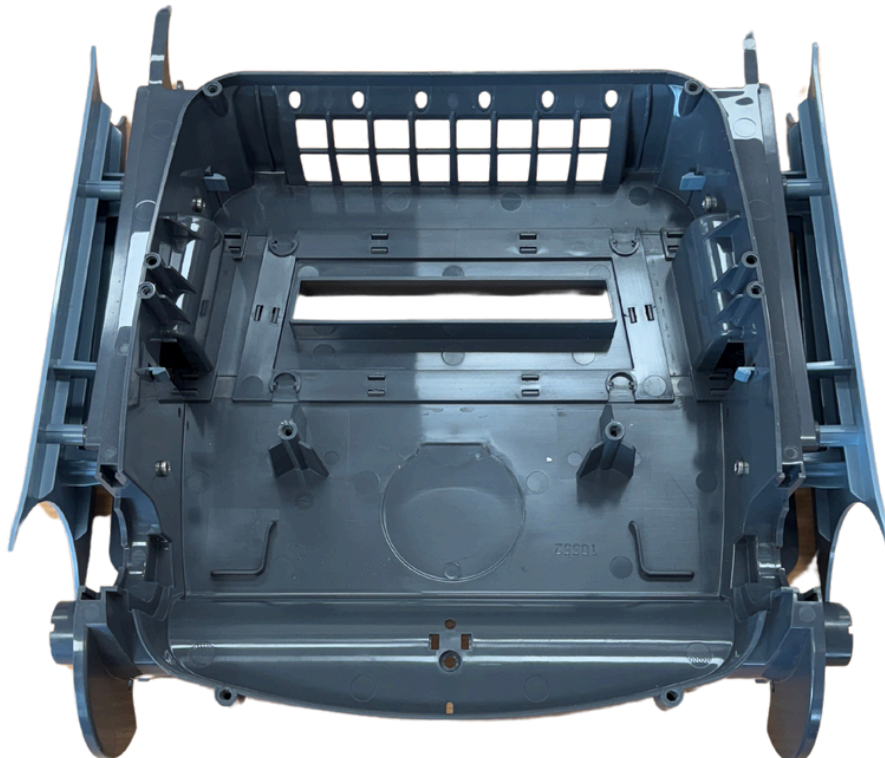
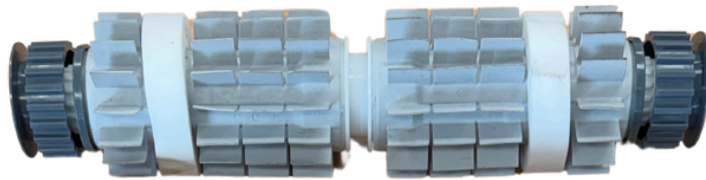
1r. Rapid Drain Flap Removal

At the rear of the unit you can now remove the rapid drain flap. Carefully pull the existing flap from the chassis.



You should now be looking at the below. With the body, motor and floats removed and the front and rear rollers separated from the chassis.

Rear roller



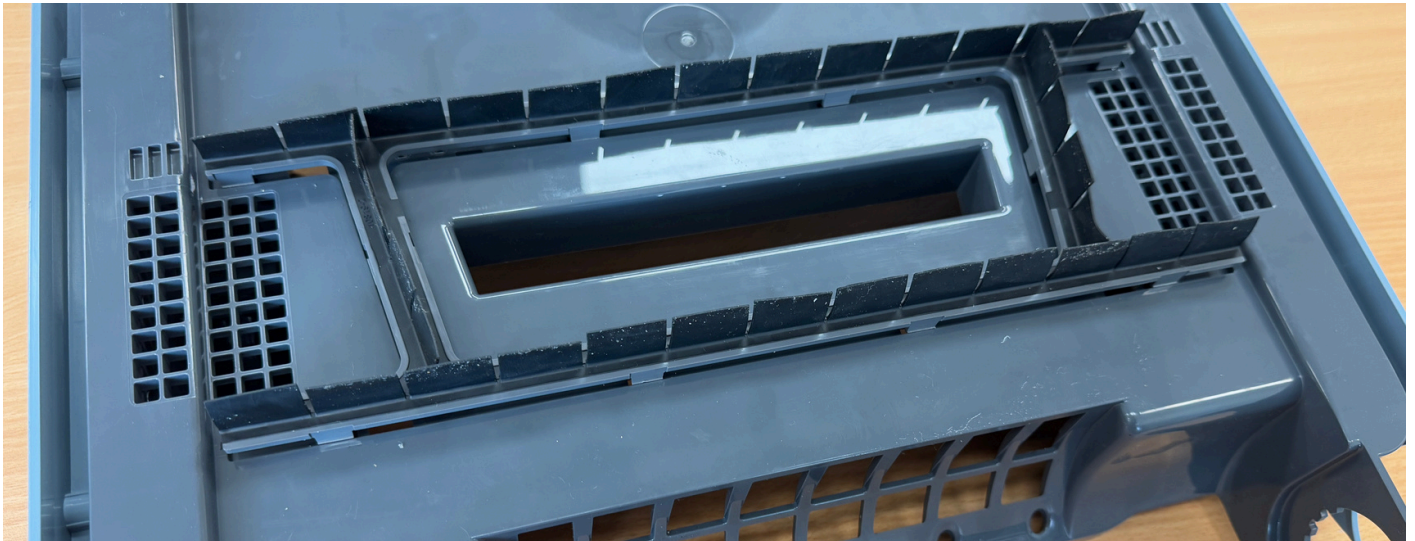
Chassis

Front roller



1t. Vacuum Strip Removal

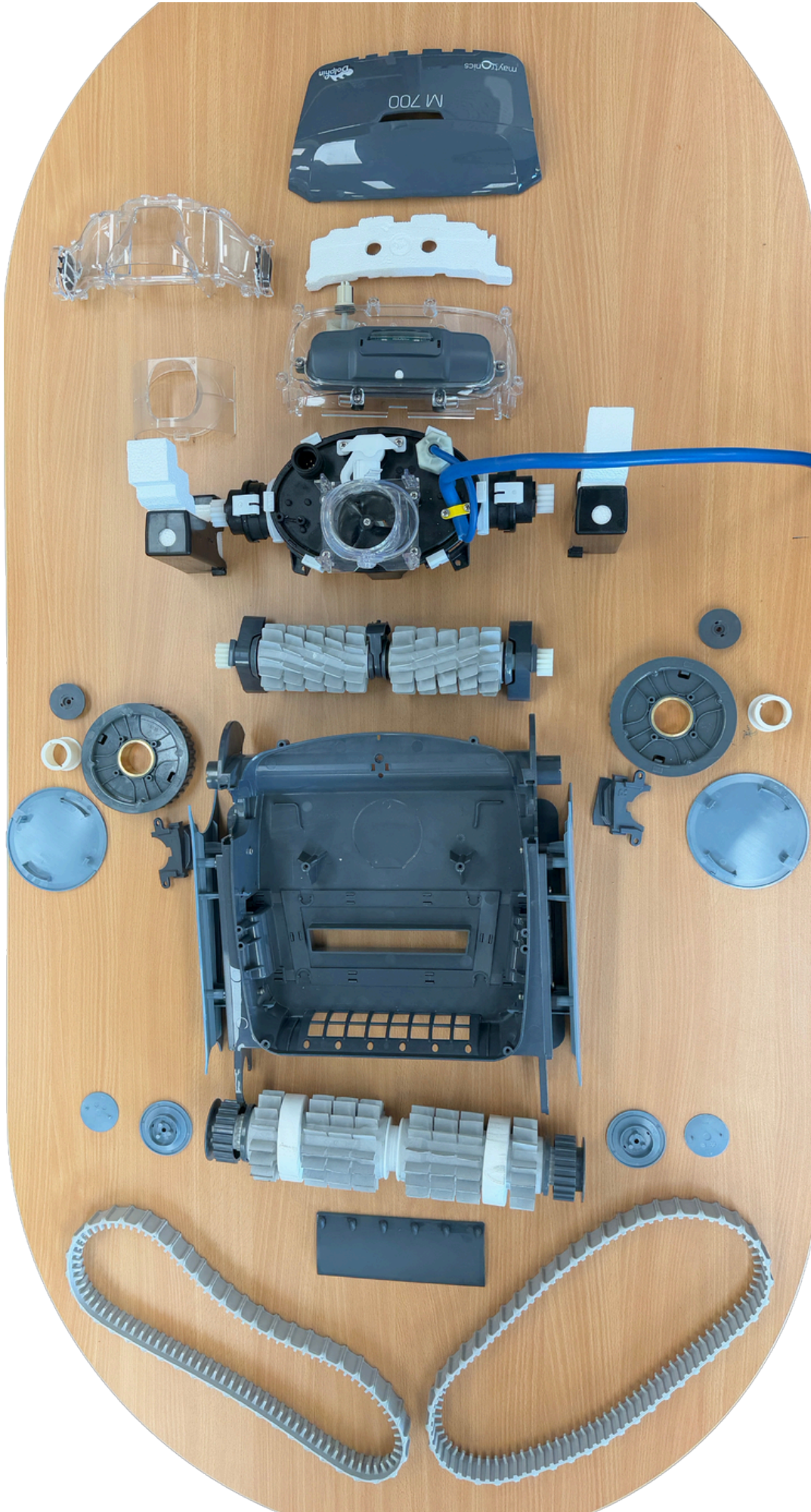
Remove the vacuum strip assembly shown below. To remove the existing assembly push the retention clips down using a flathead screwdriver or long-nose pliers.



There are ten clips that hold the vacuum strip assembly in place as shown below.



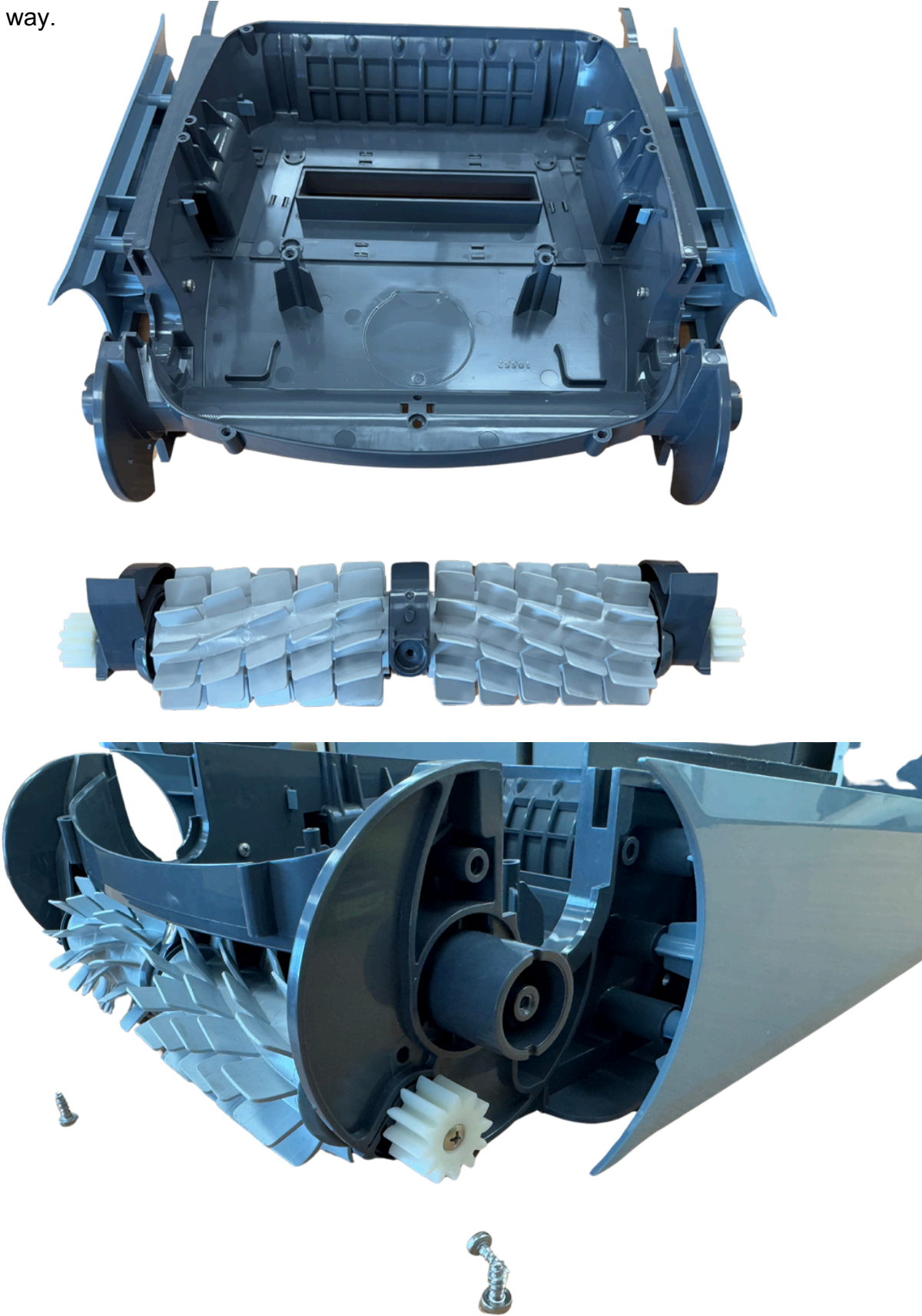
You have now completely disassembled your robot and should be able to lay the parts out as shown below, ready for reassembly.



Step 2 - Reassembly

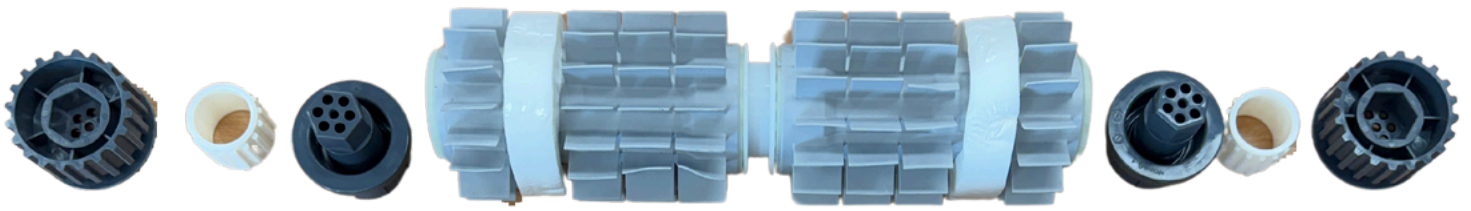
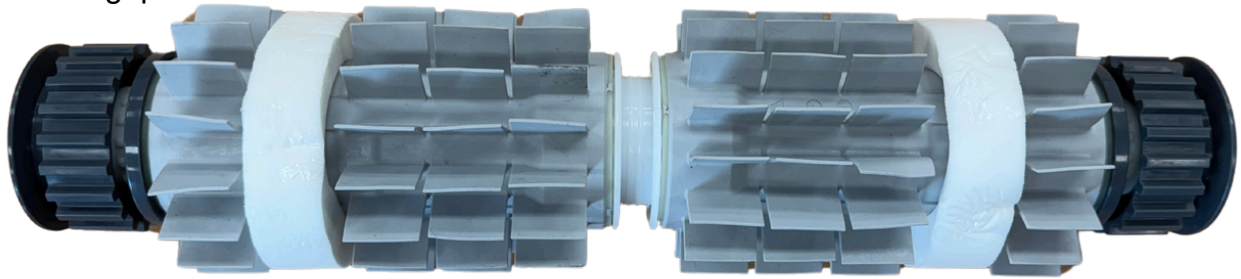
2a. Front Roller

The new front roller comes complete and ready to install. Simply locate the roller correctly and use the five screws to secure it into place. The front roller will only fit one way.



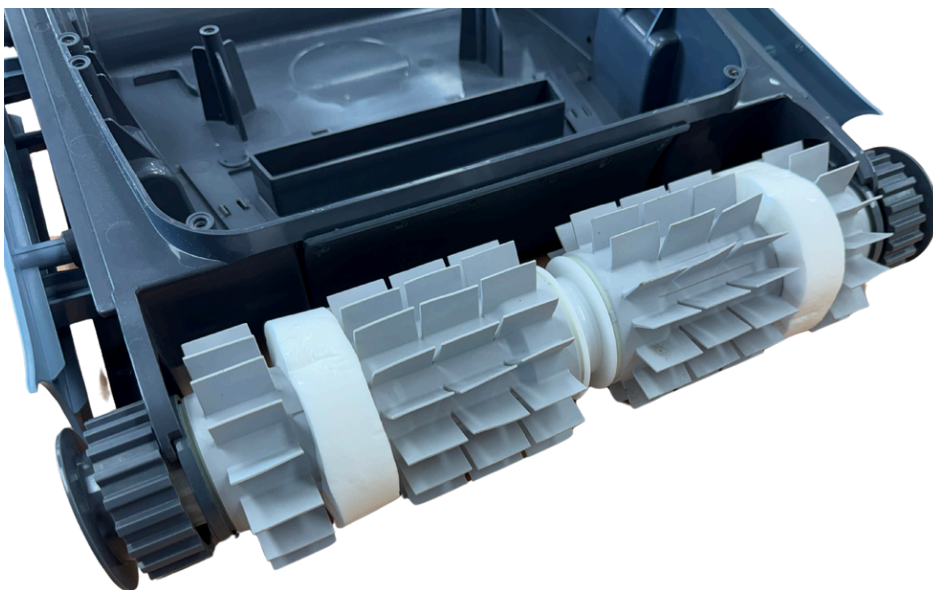
2b. Rear Roller

The new rear roller consists of the brushes, foam rings, and tube assembly. Insert the wheel adapter, bushing, and wheels and screw together. You will utilise the existing wheel cover. The wheel adapter should fit all the way into the roller tube with no gap.



Wheel Bushing Rear wheel adapter

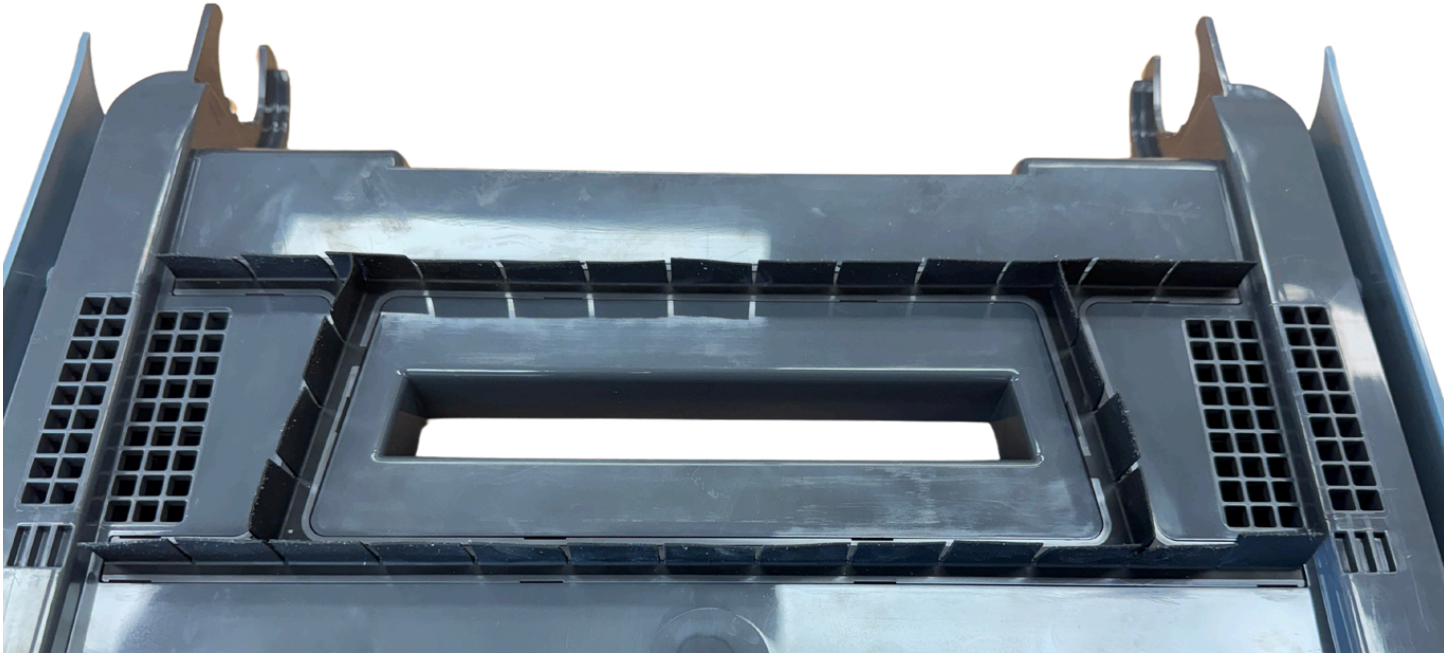
Once you have assembled the rear brush, push it back into place at the rear of the chassis. The rear brush will be held in place by the tracks.



2XX Vacuum Strip Assembly

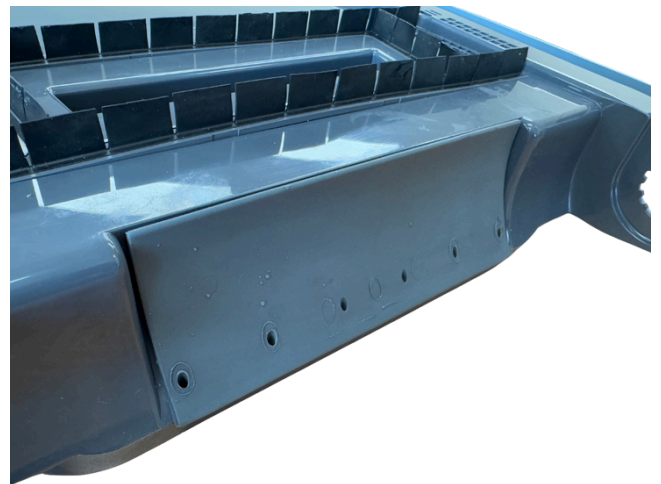
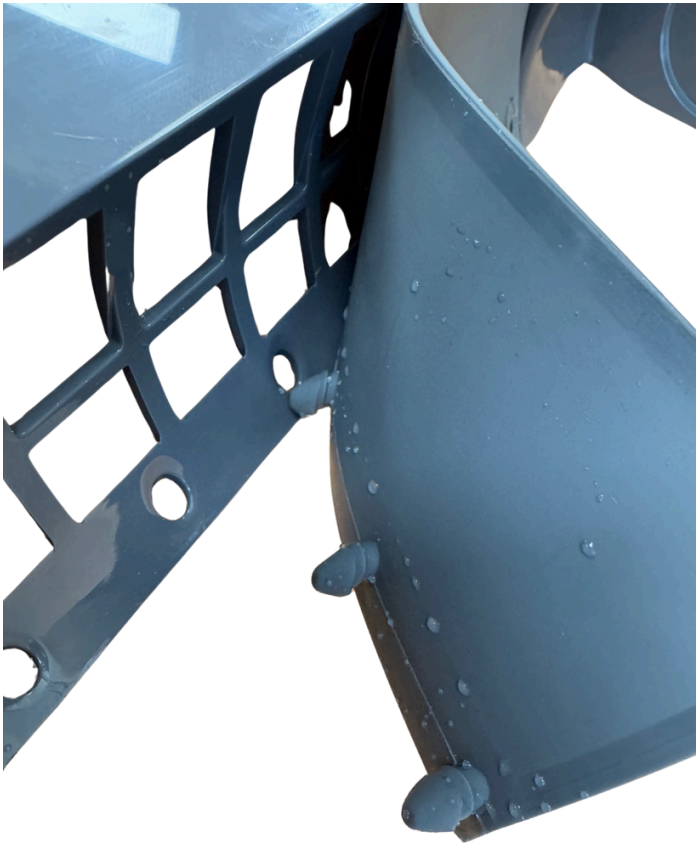
Install the new Vacuum Strip Assembly and Rapid Drain Flap (RDF).

The Vacuum Strip Assembly simply pushes in where the old one came out.



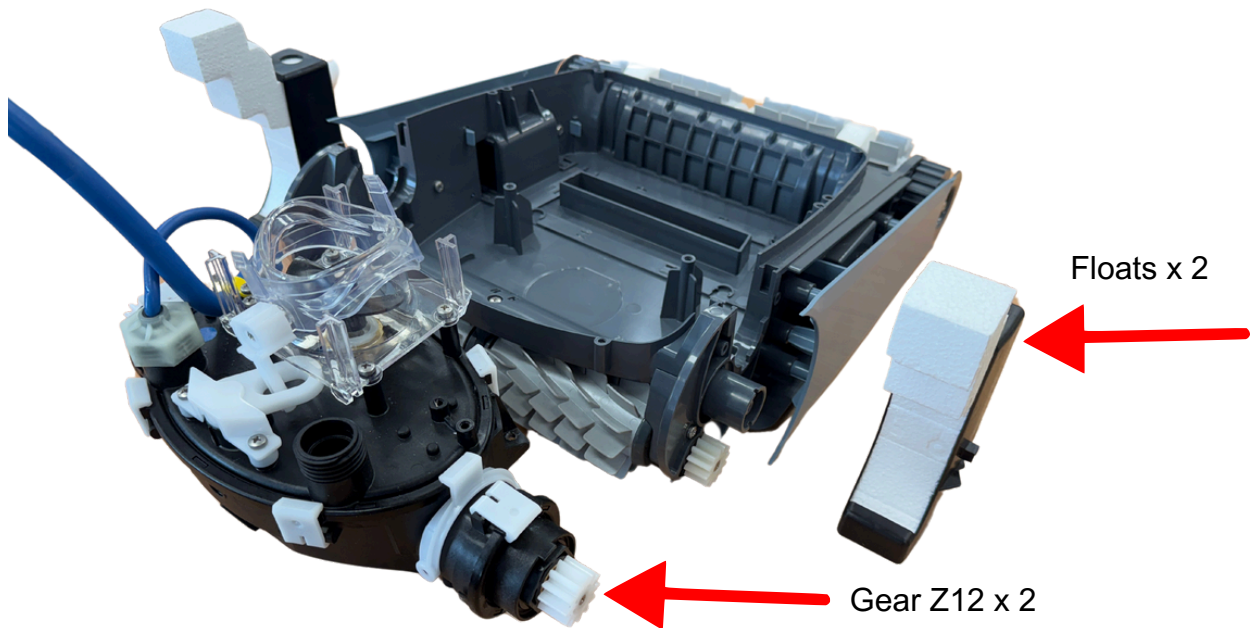
2XX Rapid Drain Flap

The Rapid Drain Flap can be tough to reinstall so we recommend running the rubber flap under hot water for at least 1 minute. Once warmed up and still wet, the RDF can be pushed back into place.



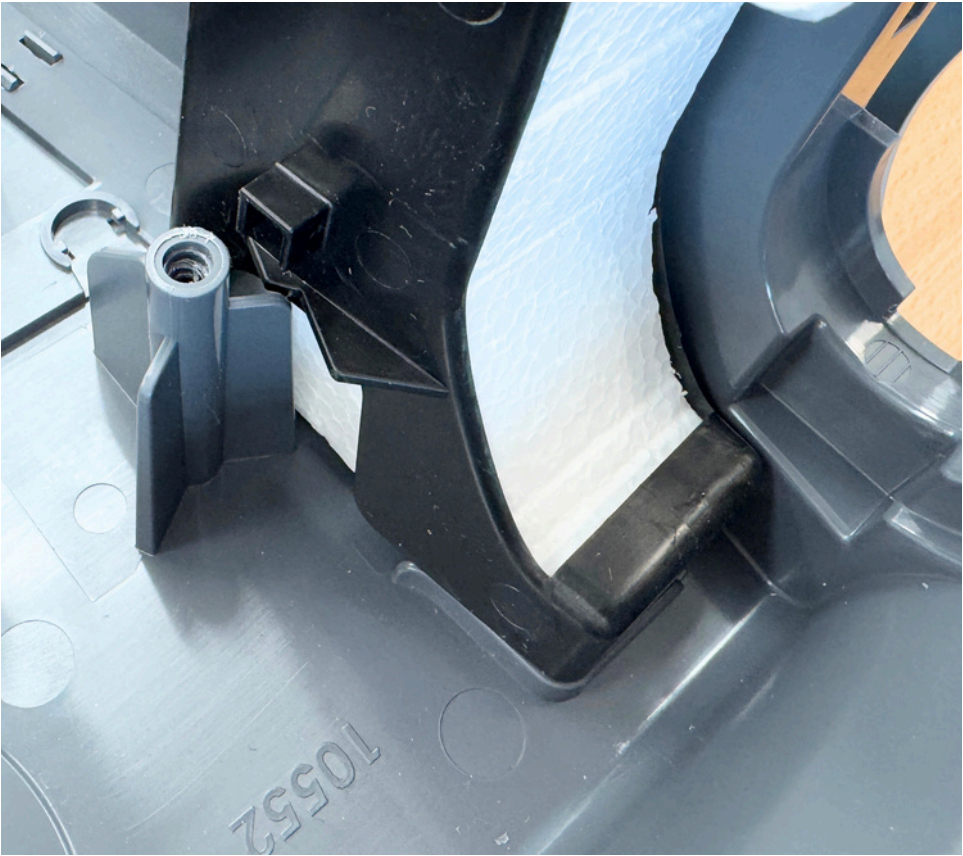
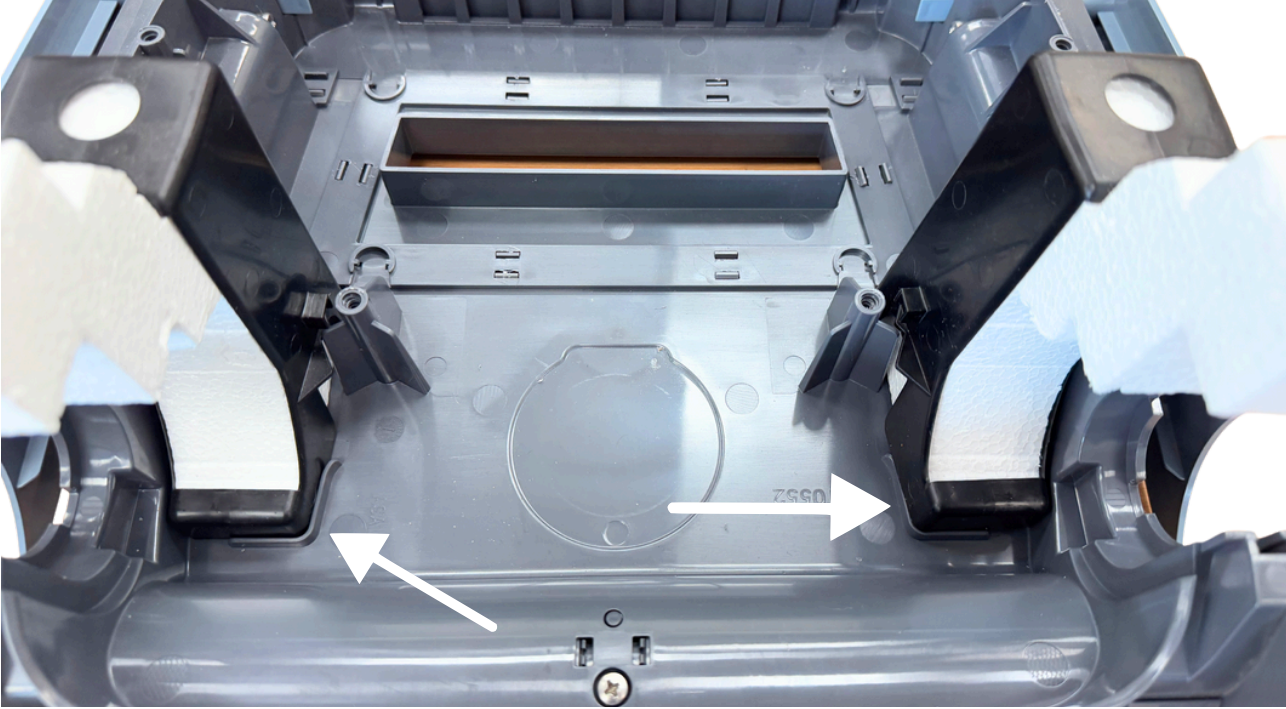
2c. Reinstalling the Motor and Floats

With the motor still removed, replace the two drive gears (Gear Z12) on either side of the motor.

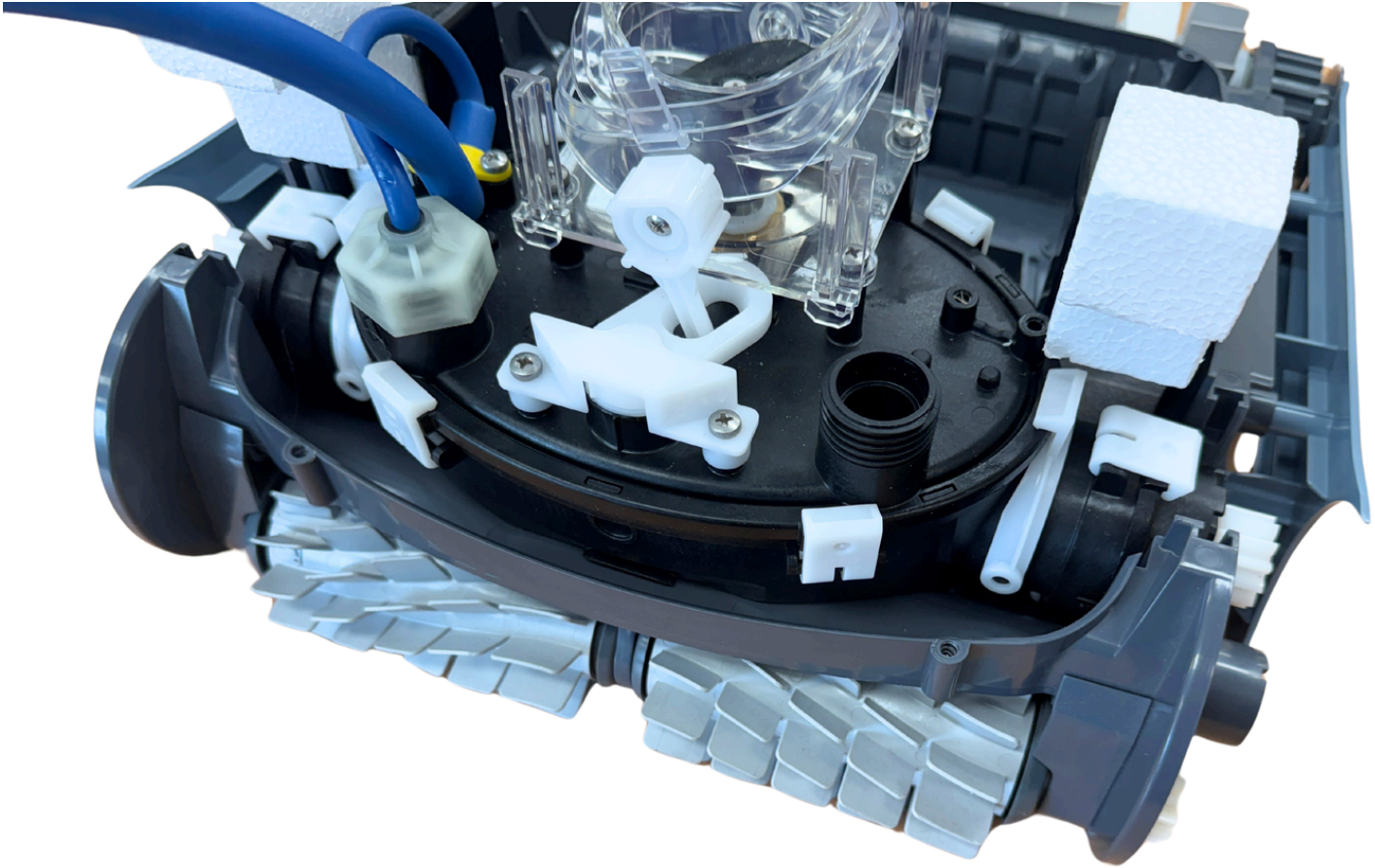


Reinstalling the motor is done in conjunction with the floats. The floats are tucked under the motor so you need to locate the floats correctly, then slip the motor into place. Note that the floats are different on the left and right and are labeled L/R.

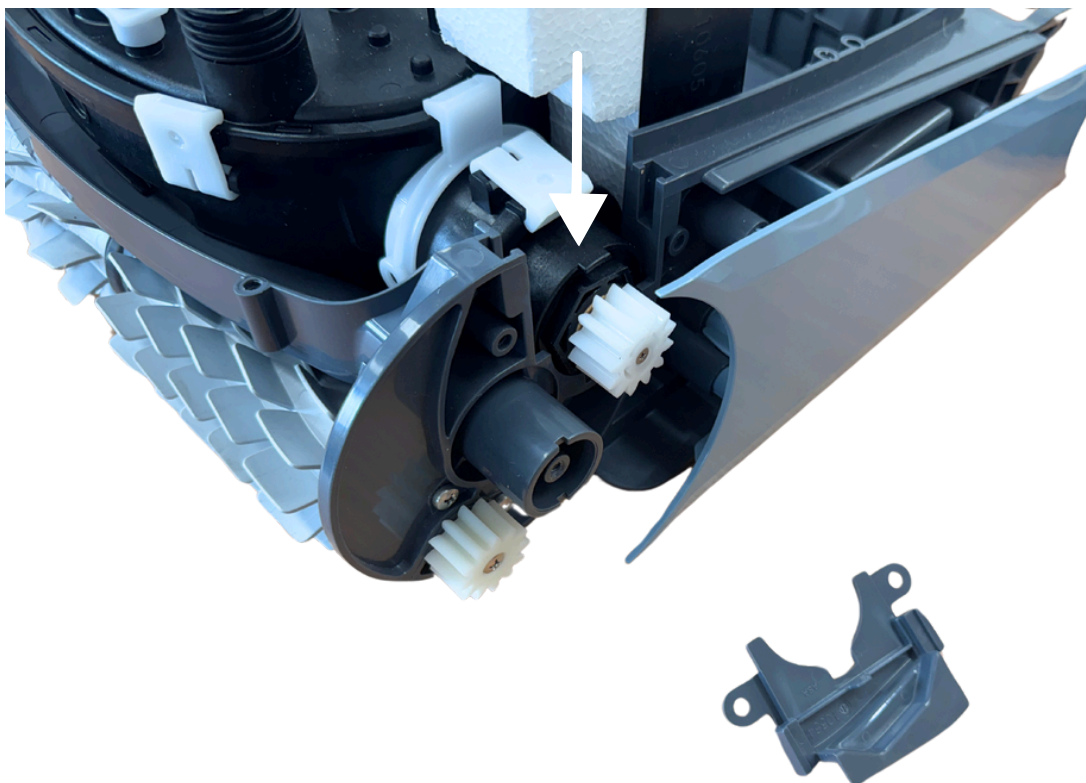
Note the floats below. You can see that the float frame fits within the moulding of the chassis.



The motor can then be lowered into place. The floats will need to be lifted slightly to allow the motor to be located. Once in place the screw holes and the motor should line up, reinstall the two motor screws.



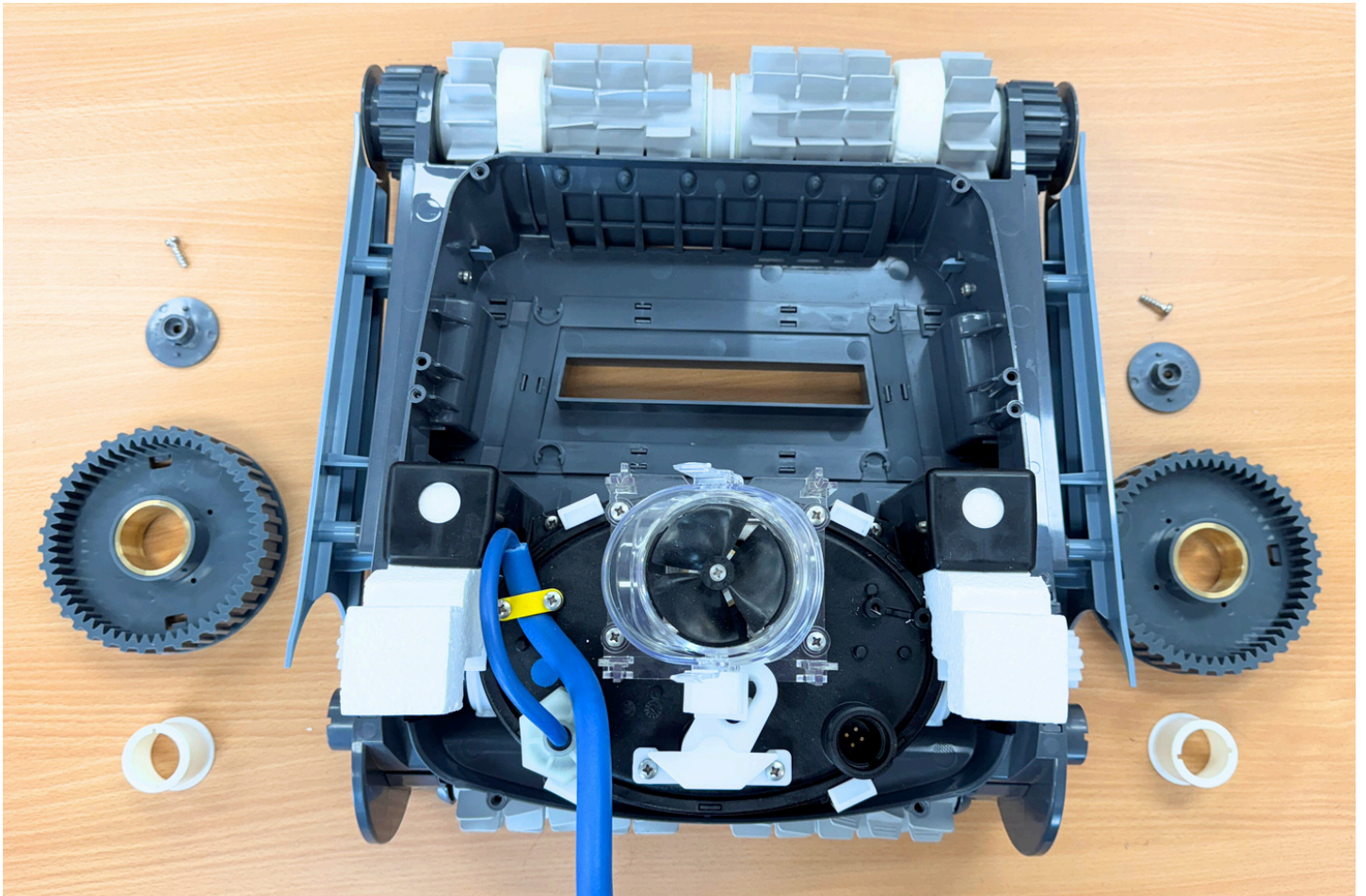
Replace the Left and Right chassis doors. Note that while these parts appear to have screw holes, there are no screws used to locate these parts.



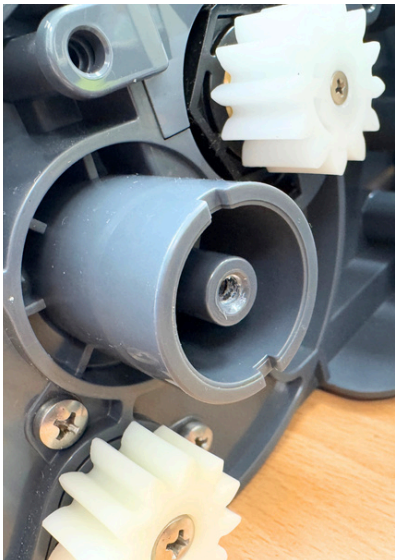
2d.

Reinstall the Front Wheels

With the motor, floats, and front and rear rollers installed, you can now install the new front wheel assembly. The front wheel assembly consists of the front bushings, wheels and your existing wheel covers.



The new front bushings slide over the mounts on the chassis. Rotate the bushing until you feel it drop into place over the locator lugs.



The front wheels then slides over the bushing. The wheel may need to be rotated to allow the drive gear and roller gear to fit within the teeth of the wheel.



Use your existing wheel cover and screw to secure the wheel in place. Again rotate the wheel disc until it drops into place within the locator lugs.

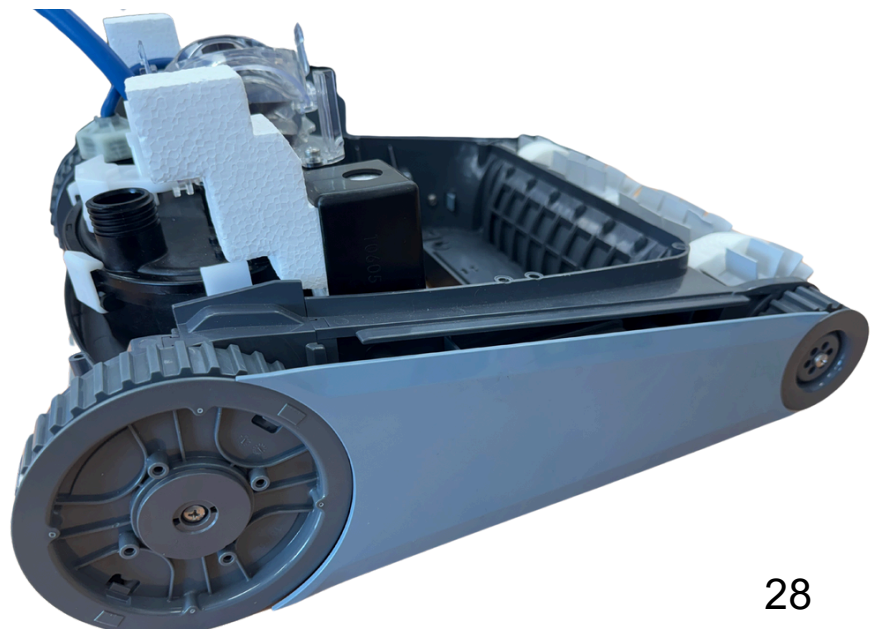


Wheel disc



2e. Tracks

You can now install the new tracks by first fitting them to the rear wheel before stretching them over the front wheel.

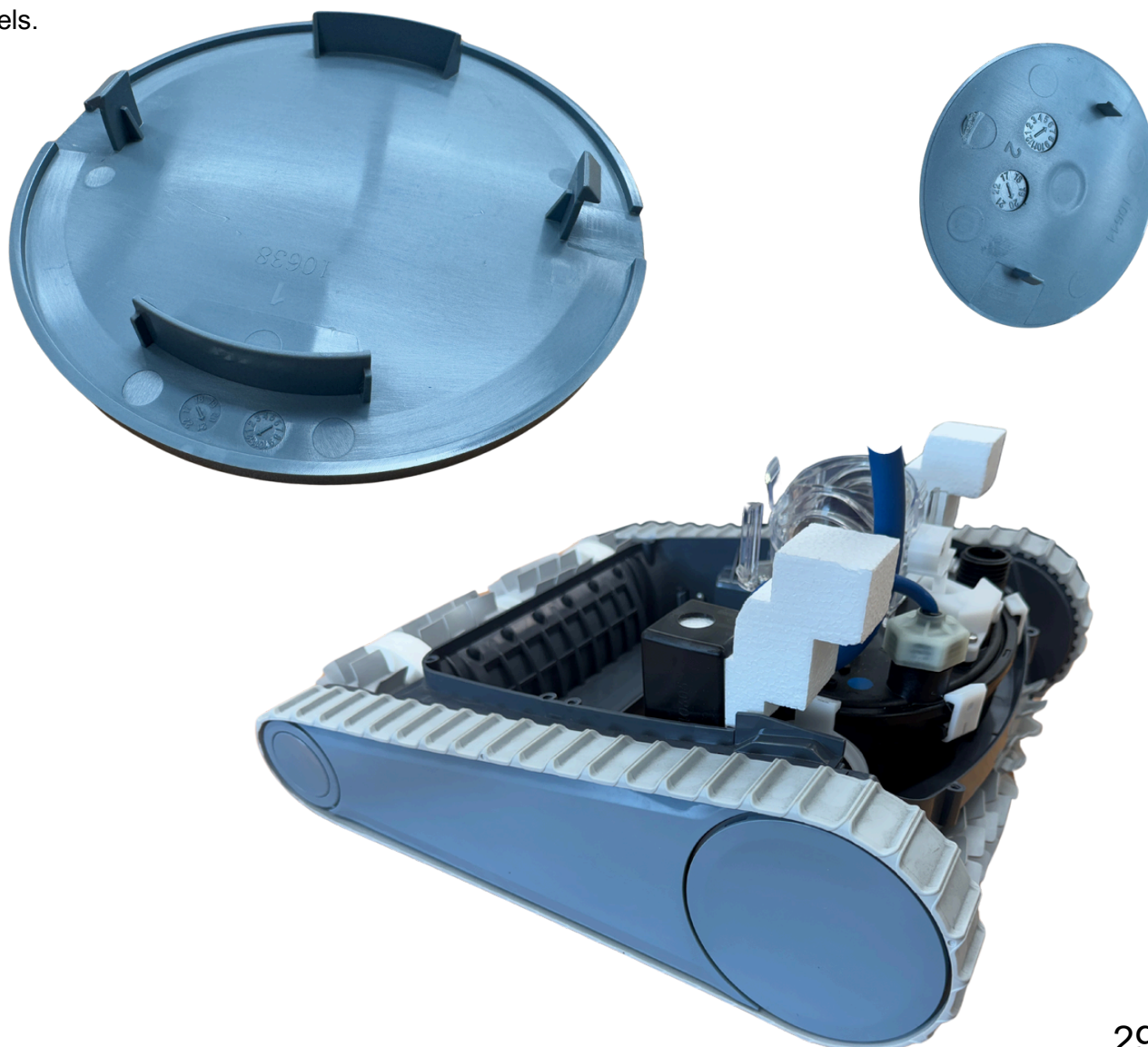


Note that the tracks have longer teeth on one side, these long teeth are situated on the outside of the robot and fit into the grooves on the front and rear wheels.



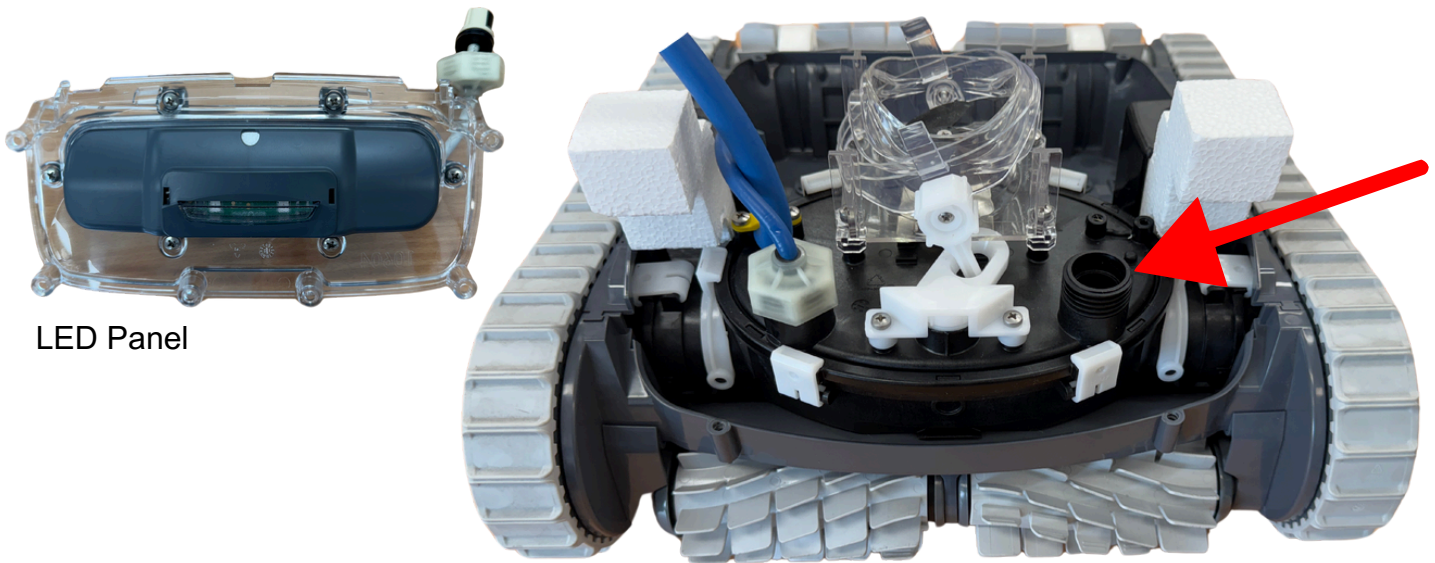
2f. Wheel Covers

Clip your existing front and rear wheel covers into place over the wheels.

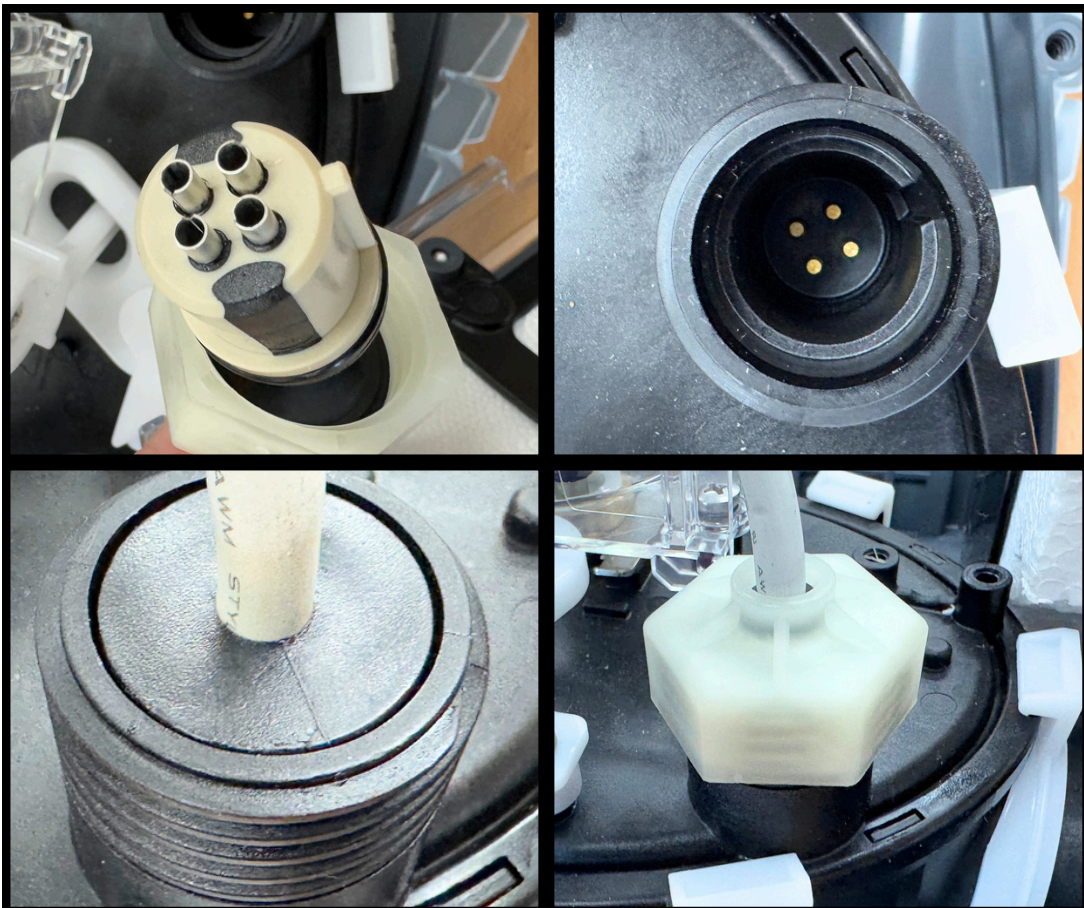


2g. Reinstall LED

With the chassis and running gear now installed you can reinstall the LED panel. Ensure you have located the LED plug correctly into the socket and push it into place. It should fit so that the top of the plug and the motor housing are flush. Screw the cover and seal down over the plug - do not overtighten.



LED Panel



2h. Reinstall Body

Sit the LED panel on top of the motor and feed the cable up through the robot body. Drop the robot body into place over the chassis and install the four screws shown below..



2i. Connect LED to the Body

Pull the LED panel through the front of the robot and screw into place using 6 short screws. At the same time use the long screws to screw the front of the robot body to the chassis.

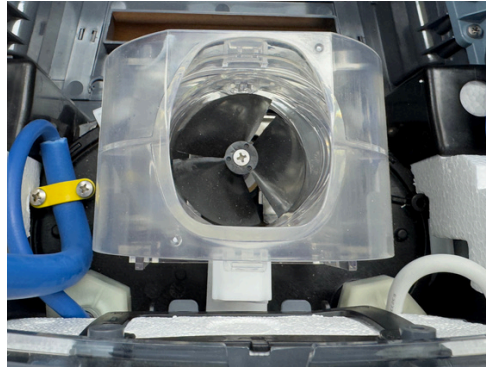


Reinstall the foam float and front panel. To install the front panel, place it over the front of the LED panel and then push down to locate.

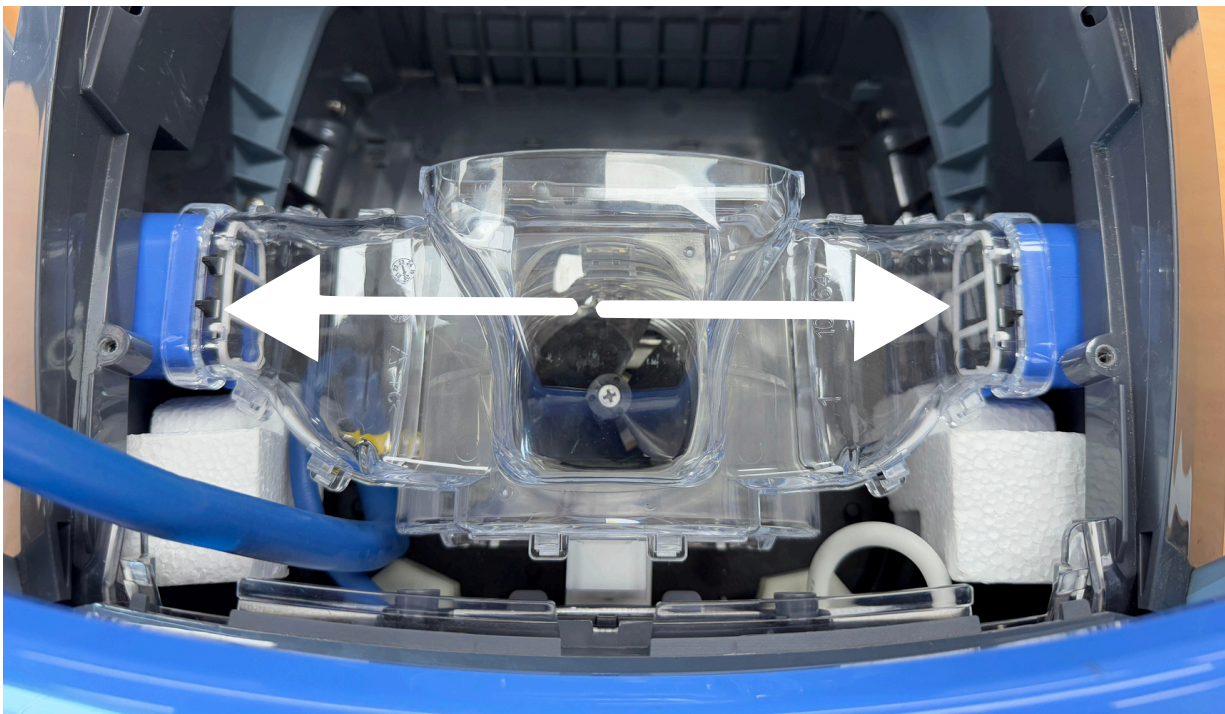


2j. Reinstall Water Tube and Manifold

Click the water tube into place, note there is a small and large clip so this part only goes one way. The manifold then sits over the top of the water tube. Be careful that the small rubber flaps (see image below) on the left and right of the manifold do not get caught up when installing. these flaps should hang down over the openings to the left and right.



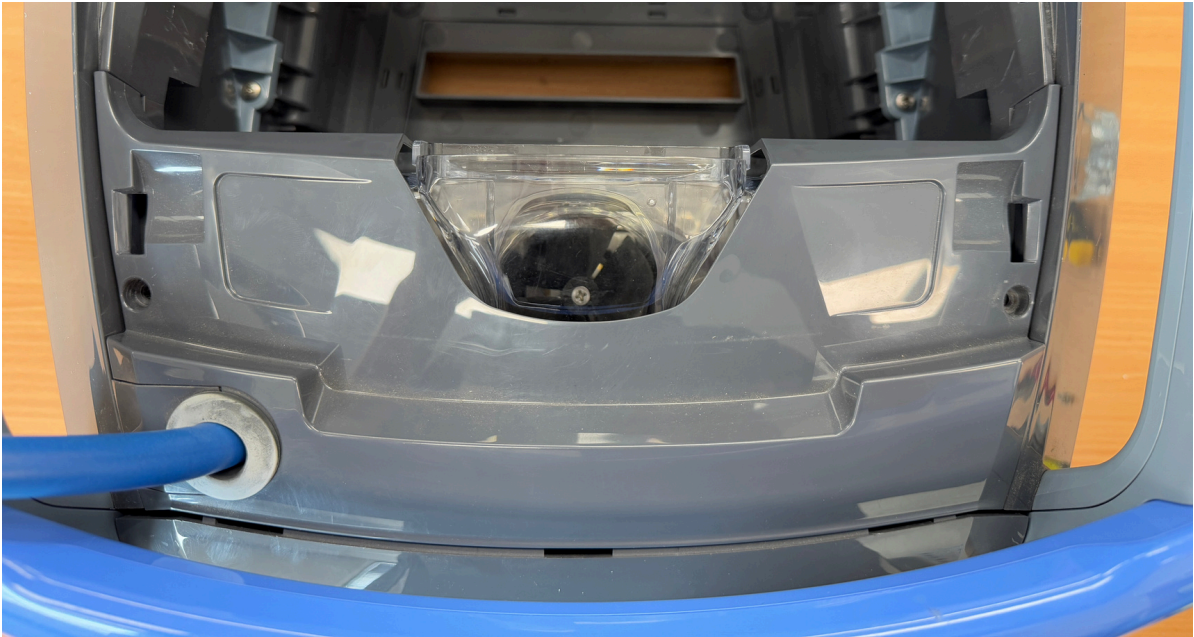
Water Tube



Manifold and flap locations.

2k. Reinstall Top Panel

You can now slide the top panel back down the cable and into place on top of the robot. Two small screws hold this panel in place.



2l.

Reinstall the filter basket, reconnect the swivel and you are done. Congratulations, you have successfully repaired your robotic pool cleaner.

