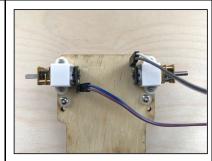
1. Turn the chassis over as shown in the photo. We'll start by attaching the jumper wires - by doing this first, you'll be protected from the sharp pins on the motorsl.

Make sure your wiring is exactly the same as in the photo.





Double check your wiring!

2. Attach the wheels to the motor shaft. Align the D - shape in the centre of the wheel with the D-shaped motor axel & push on firmly.

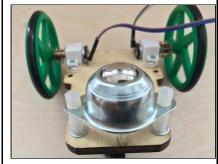




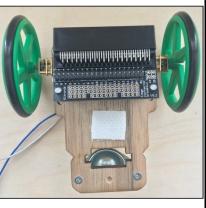


3. Place the castor wheel onto the plastic mounts at the front of the chassis. Then secure using two of the plastic fixings.





4. Place the edge connector on the standoffs at the rear of the chassis and secure using two of the plastic fixings (As shown in the diagram).

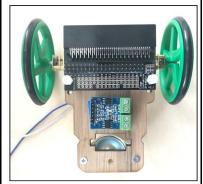




Position the motor driver board



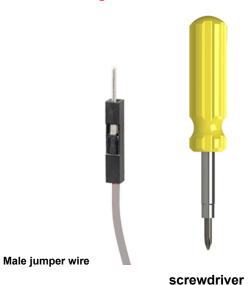
and press down firmly to secure with Velcro and then thread the jumper wires through the gap in the front

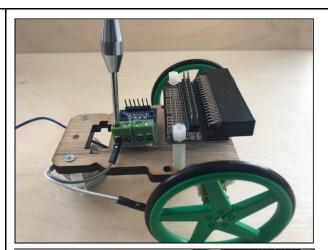




6. Using a screwdriver connect the male end of the motor jumper wires to the terminals on the motor driver board (As shown in the diagram).

Always double check your wiring before moving onto the next stage!



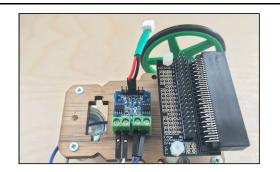




 Add the small power cable to the motor driver board as shown in the photo. Double check your wiring before moving to the next stage.

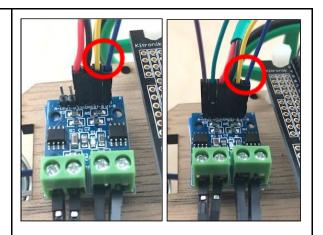


Yours will be yellow (as above) or green (shown on the right).



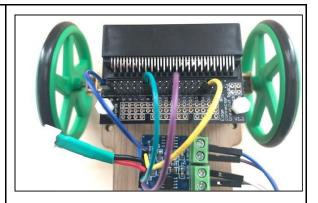
8. Connect the small yellow, blue, green and purple female jumper wires to the motor driver board as shown in the photograph. Double check your wiring before moving on to the next stage!



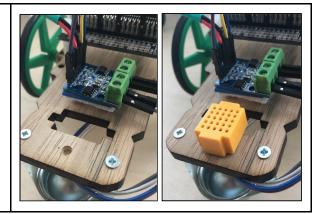


 Now attach the other end of the jumper wires to the edge connector as follows: yellow goes to pin 16;
 blue goes to pin 0; green goes to pin 8; purple goes to pin 12.

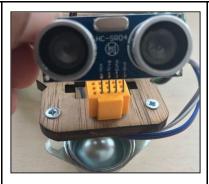
Jumper wire:	Pin number:
<mark>yellow</mark>	16
blue	0
green	8
purple	12

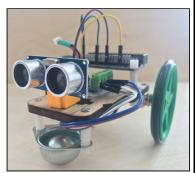


10. Attach the mini breadboard to the hole in the front of the chassis, pressing down firmly making sure that velcro keeps it firmly in place.

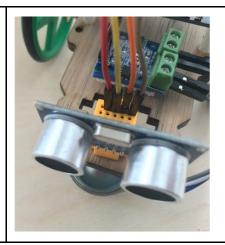


11. Insert the sonar sensor into the mini breadboard. Make sure that the GND pin is on the far right of the breadboard.





12. Now wire the sonar to the edge connector as follows: Brown from 0 volts to the ground pin on the sonar; yellow from pin 14 to the trigger; Orange from pin 13 to the Echo; red from the 3 volts pin on the edge connector to VCC of the sauna.



13.		
<u></u>		
14.		
15.		