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## OSOYOO V2.1 Robot car kit Lesson 1: Basic robot car assembly

Post Time: 2020-05-12 18:05:49

Category: [V2.1 Robot car kit](#)

**NOTE: ALL OSOYOO PRODUCTS FOR ARDUINO ARE THIRD PARTY BOARD WHICH IS FULLY COMPATIBLE WITH ARDUINO**

OSOYOO V2.1 Robot Car for Arduino Lesson 1 : Basic robot car assembly



### Authorized Online Retailers

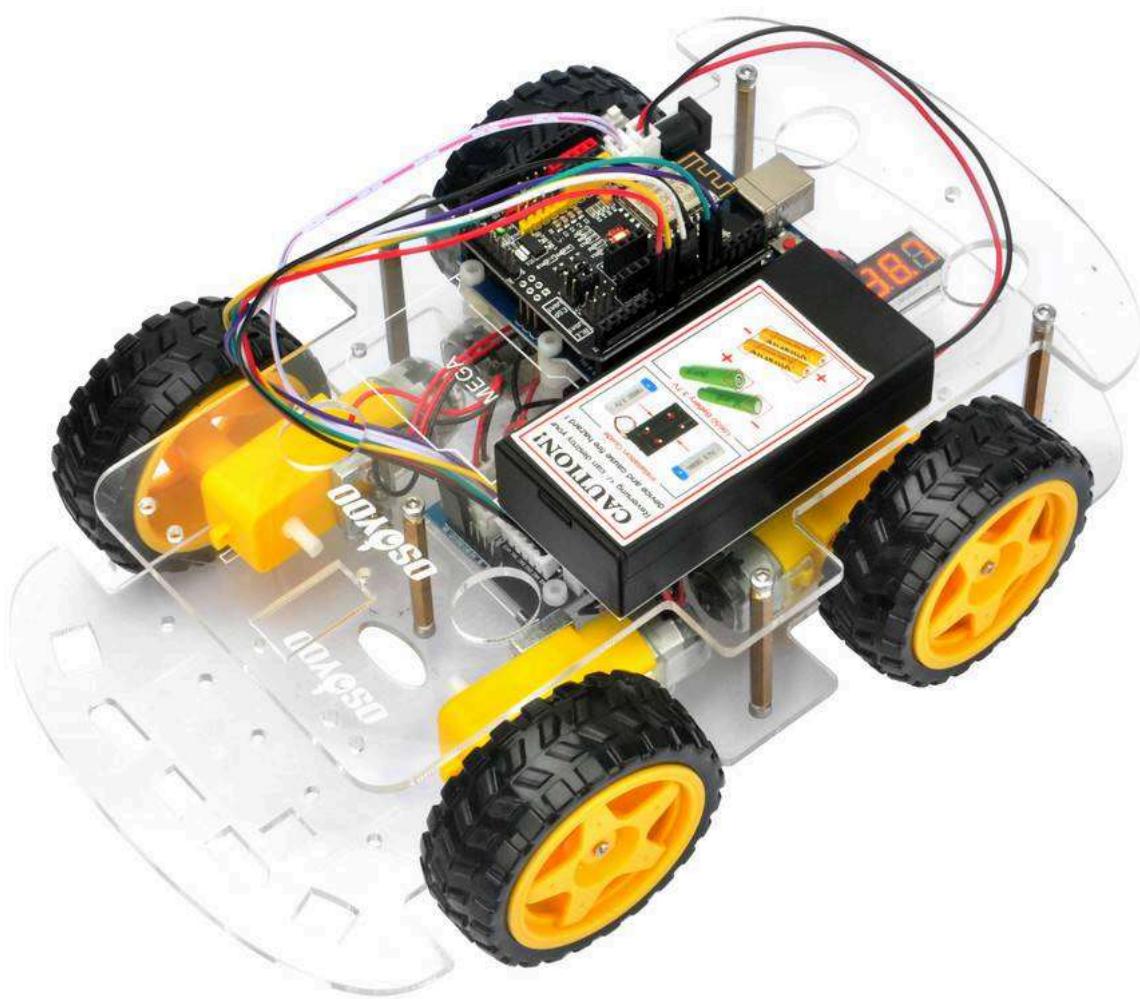
Where to buy the set with 18650 batteries and USB charger

Buy from OSOYOO	Buy from US	Buy from UK	Buy from DE	Buy from IT	Buy from FR	Buy from ES	Etc
<a href="#">OSOYOO Store</a>	<a href="#">BUY NOW</a>						

Buy the V2.1 Robot car without Battery and charger:

Buy from OSOYOO	Buy from US	Buy from UK	Buy from DE	Buy from IT	Buy from FR	Buy from ES	Etc
<a href="#">OSOYOO Store</a>	<a href="#">BUY NOW</a>						

- **Objective**
- **Parts and Devices**
- **Hardware Installation**
  - Install devices
  - Connections
- **Software Installation:**
- **Testing**
- **Troubleshooting**



Welcome to the first lesson of smart car!

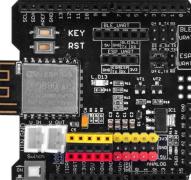
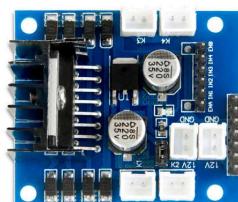
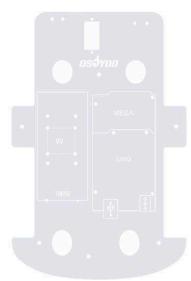
## Objective

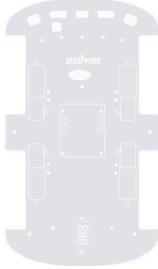
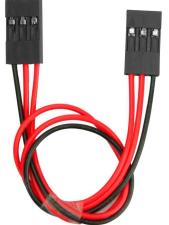
In this “Hello World” version lesson, we will install the most important framework in the smart car and program the car to do some simple movements. If you have passed the test movement of this lesson, it means board, voltage meter, motor control module, motors, batter and wire connections between these parts are all functioning well.

As your experiments in future lessons are all based on the framework of Lesson One, it is very important to test the installation and save this Lesson properly.

## Parts and Devices:

No.	Picture	Device	Qty.	Accessories	Link
1		OSOYOO basic board	1	M3 Plastic Screw x 3 M3 Plastic Nut x 4 M3 Plastic Pillar x 4	<a href="#">Click here to buy</a>

2		OSOYOO Uart Wi-Fi shield V1.3	1	<a href="#">Click here to buy</a>
3		OSOYOO model X motor driver module	1	M3 Plastic Screw x 4 M3 Plastic Nut x 4 M3 Plastic Pillar x 4 <a href="#">Click here to buy</a>
4		Voltage meter	1	M3 Plastic Screw x2 M3 Plastic Nut x 2 M3 Plastic Pillar x 2 <a href="#">Click here to buy</a>
5		Gear motor	4	Metal Motor Holders with screws x4 <a href="#">Click here to buy</a>
6		Metal Motor Holders with screws	4	<a href="#">Click here to buy</a>
7		Wheel	4	Screws for wheels x4 <a href="#">Click here to buy</a>
8		Upper car chassis	1	M3*10 hex screw x5 <a href="#">Click here to buy</a>

9		Lower car chassis	1	M3*10 hex screw x5 M3*40 copper pillar x5	<a href="#">Click here to buy</a>
10		3pin female to 3pin female jumper wire	1		<a href="#">Click here to buy</a>
11		6pin male to 6pin female jumper wire	1		<a href="#">Click here to buy</a>
12		OSOYOO 2pin PnP cable 20 cm	1		<a href="#">Click here to buy</a>
13		Philips screwdriver	1		<a href="#">Click here to buy</a>
14		Hex Screwdriver	1		<a href="#">Click here to buy</a>
15		18650 battery box	1	M3*10 screw x4 M3 nuts x4	<a href="#">Click here to buy</a>

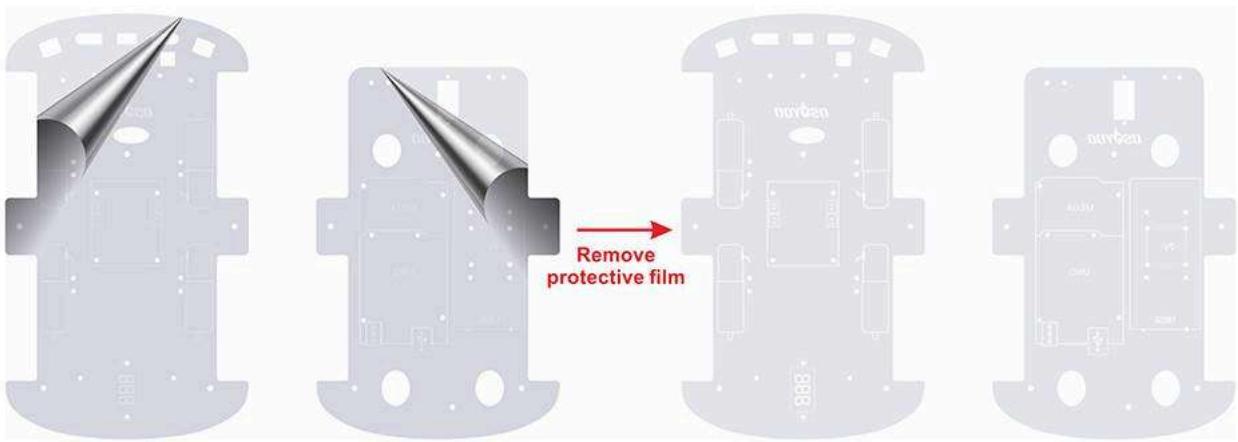
16		Battery charger for 18650 battery (Optional)	1	<a href="#">Click here to buy</a>
17		1Pair 18650 batteries (Optional)	1	<a href="#">Click here to buy</a>
18		9V Battery Box (Optional)	1	M3*10 screw x4 M3 nuts x4 <a href="#">Click here to buy</a>
19		9V Battery (Not including)	1	<a href="#">Click here to buy</a>
20		M3*10 Hex Screws	10	
21		M3*10 screw	4	
22		M3 nut	4	

23		Copper pillar	5		
24		Screw for wheel	4		
25		M3 plastic screw	9		
26		M3 plastic pillar	10		
27		M3 plastic nut	10		

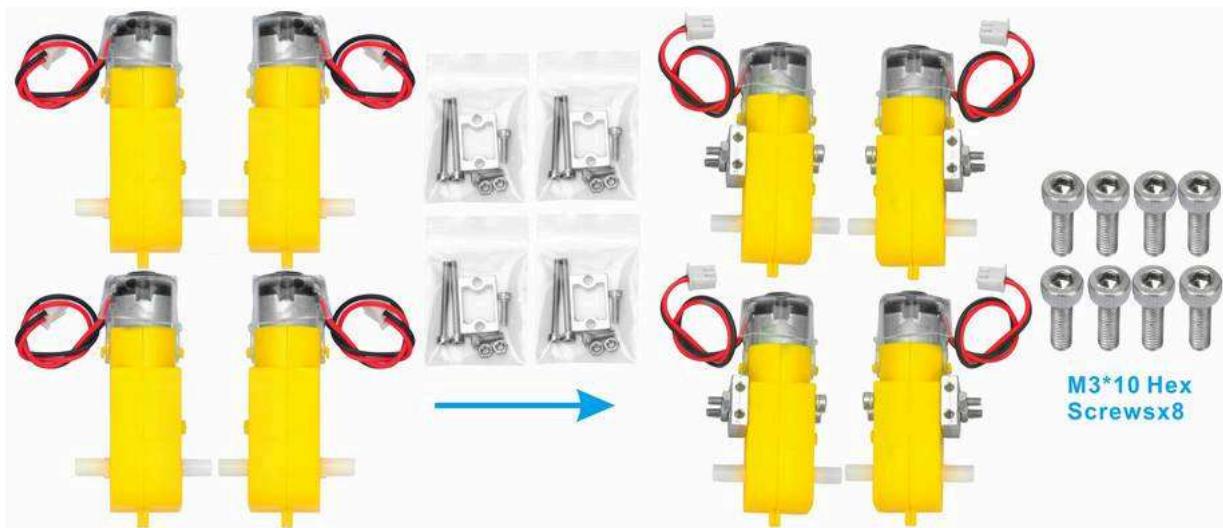
## Hardware Installation

### INSTALL DEVICES

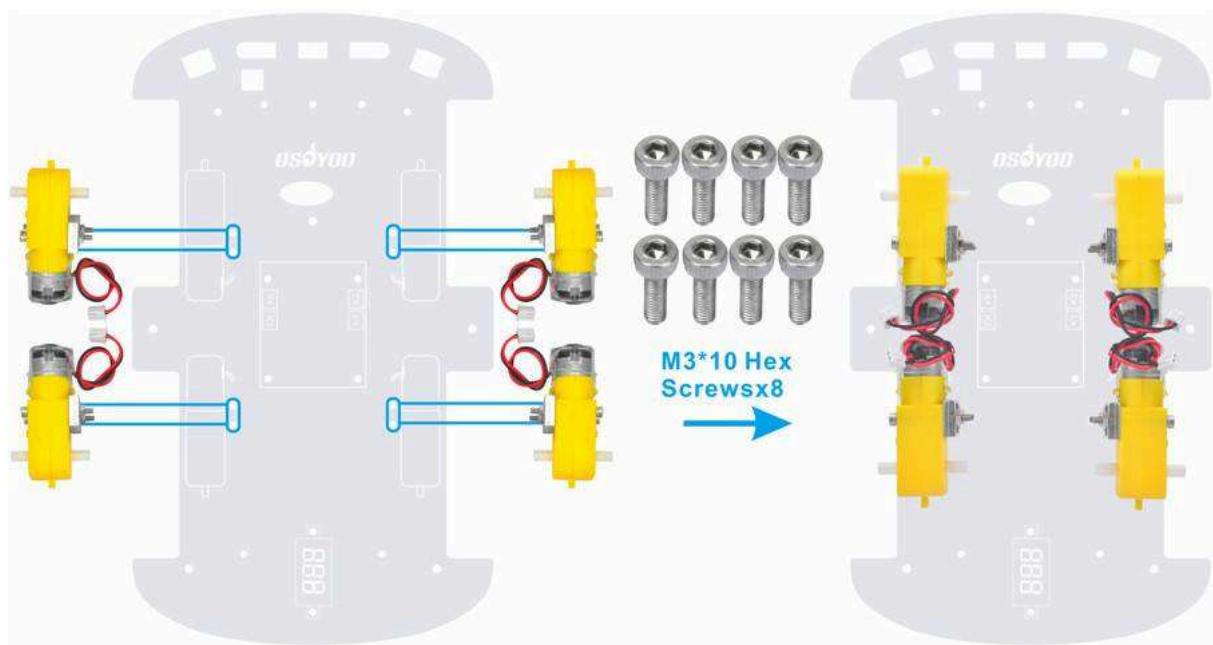
- 1) Remove the protective film on upper and low car chassis (**Each car chassis has one protective film**)



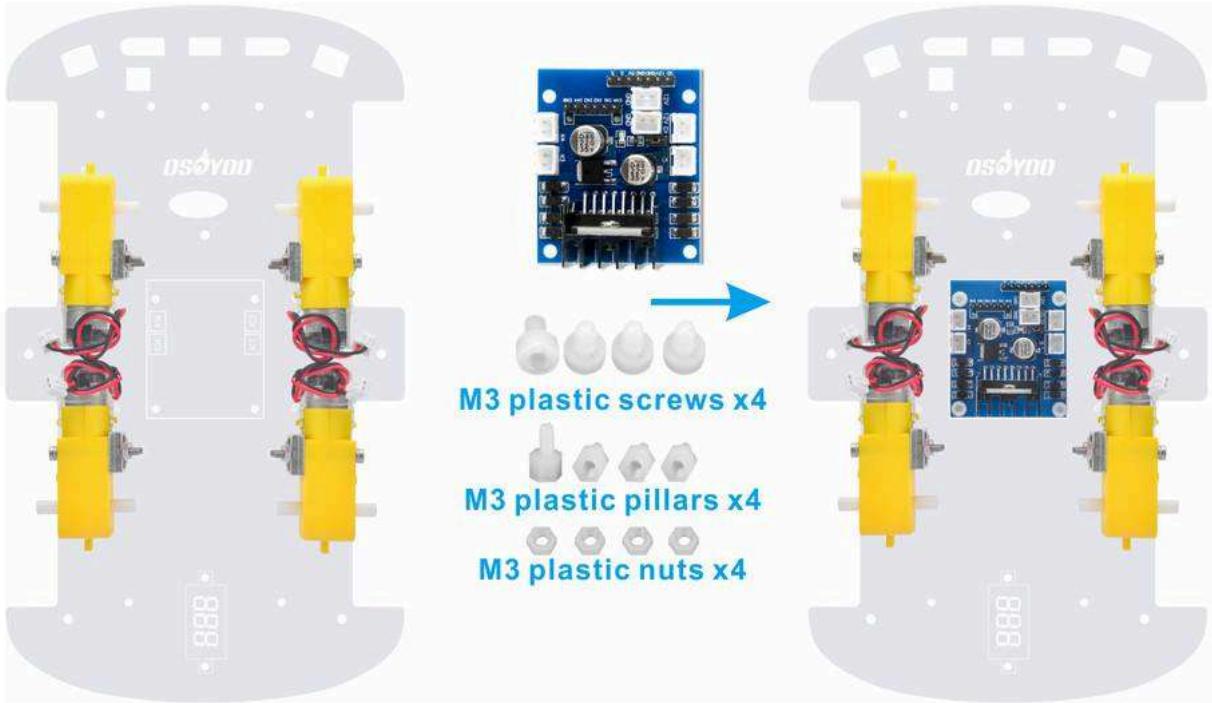
2) fix 4 motors with Metal Motor Holders as follows (Please check the motor direction before installing metal motor holders)



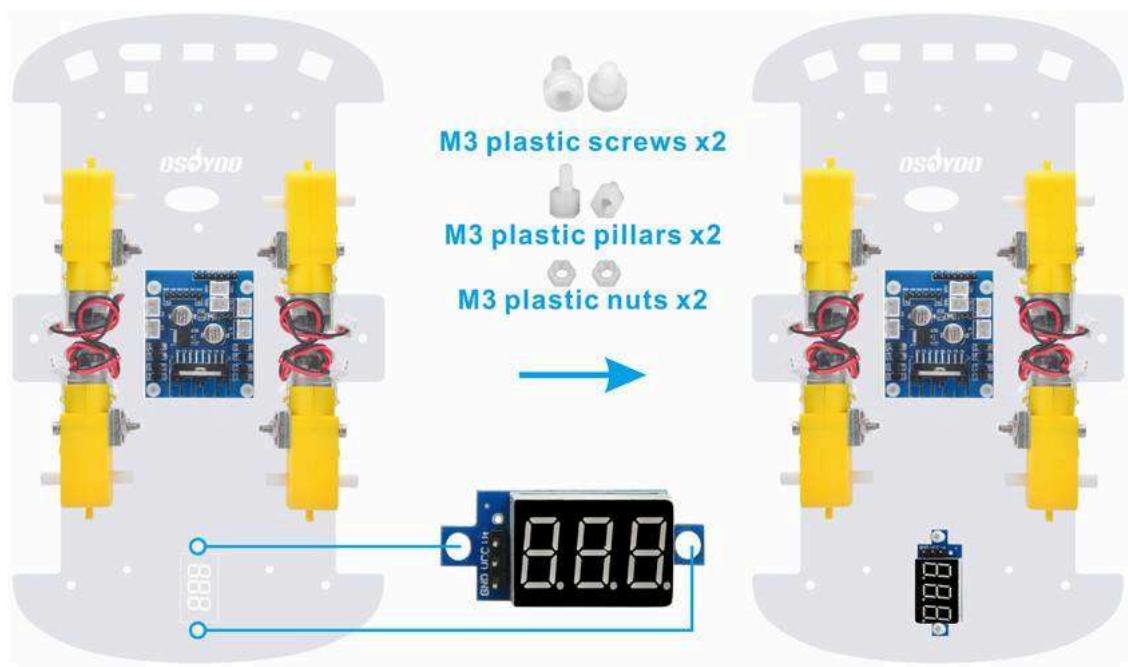
3) Fix 4 motors on lower car chassis with screw M3\*10 hex screws via hex screwdriver (screws for this step are in metal motor holder)



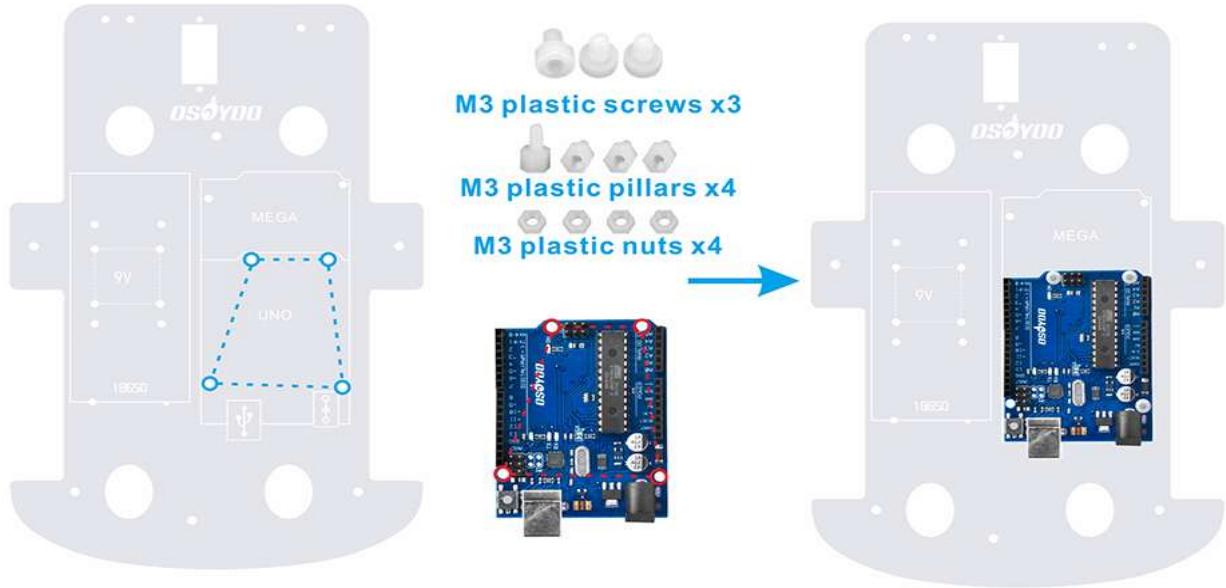
4) Install OSOYOO MODEL X motor driver module to lower car chassis with 4pcs M3 plastic screws, plastic pillars and plastic nuts. (Please make sure you install the OSOYOO MODEL X motor driver module in the correct direction.)



5) Install voltage meter on low car chassis with 2pcs M3 plastic screws, plastic pillars and plastic nuts

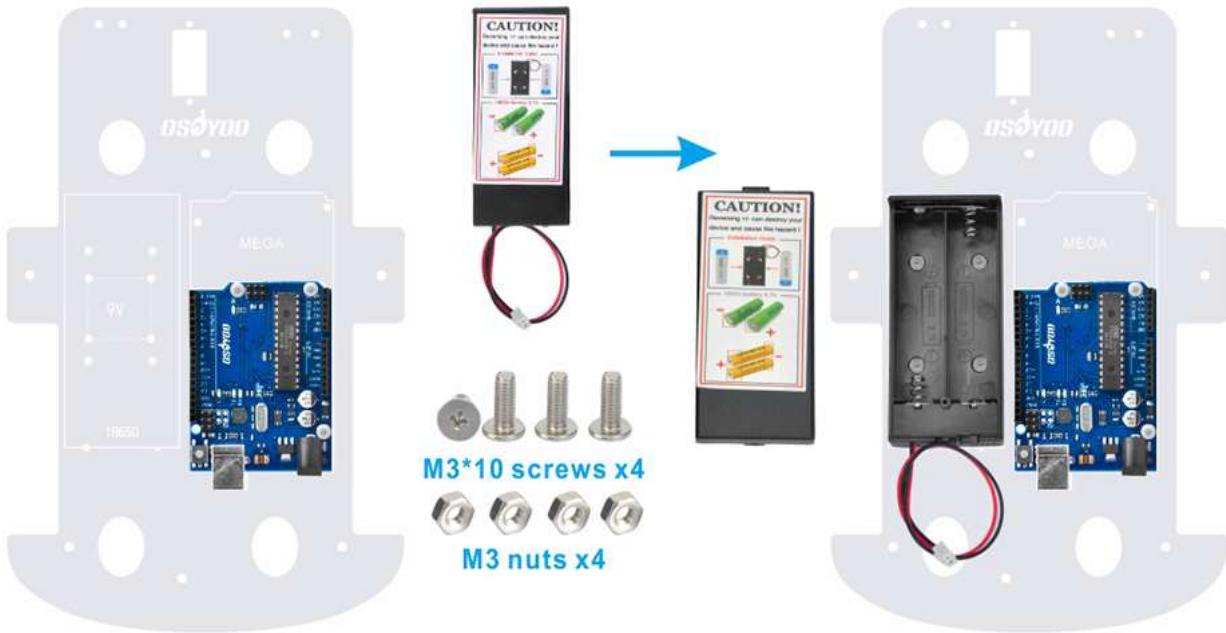


6) Fix OSOYOO basic board on upper car chassis with 4pcs M3 plastic screws, plastic pillars and plastic nuts. **(Please install board a with printing)**

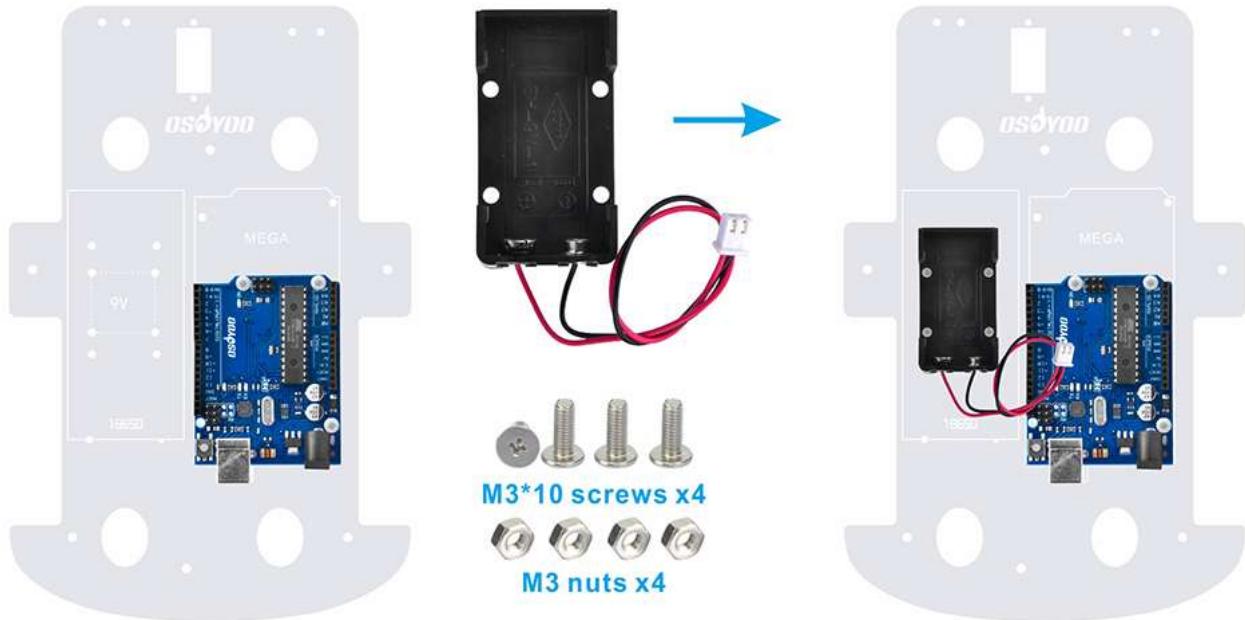


7) There are two kinds of robot car set for you to choose to buy. The one is with 2 battery box (18650 battery box and 9V battery box), one is with 1 pair 18650 batteries and 1 piece battery charger for 18650. We recommend to use 18650 batteries as the power. If you want to use 9V battery as the power, please use rechargeable 9V battery. Don't use Carbon zinc battery, as this can't provide enough current for the robot car.

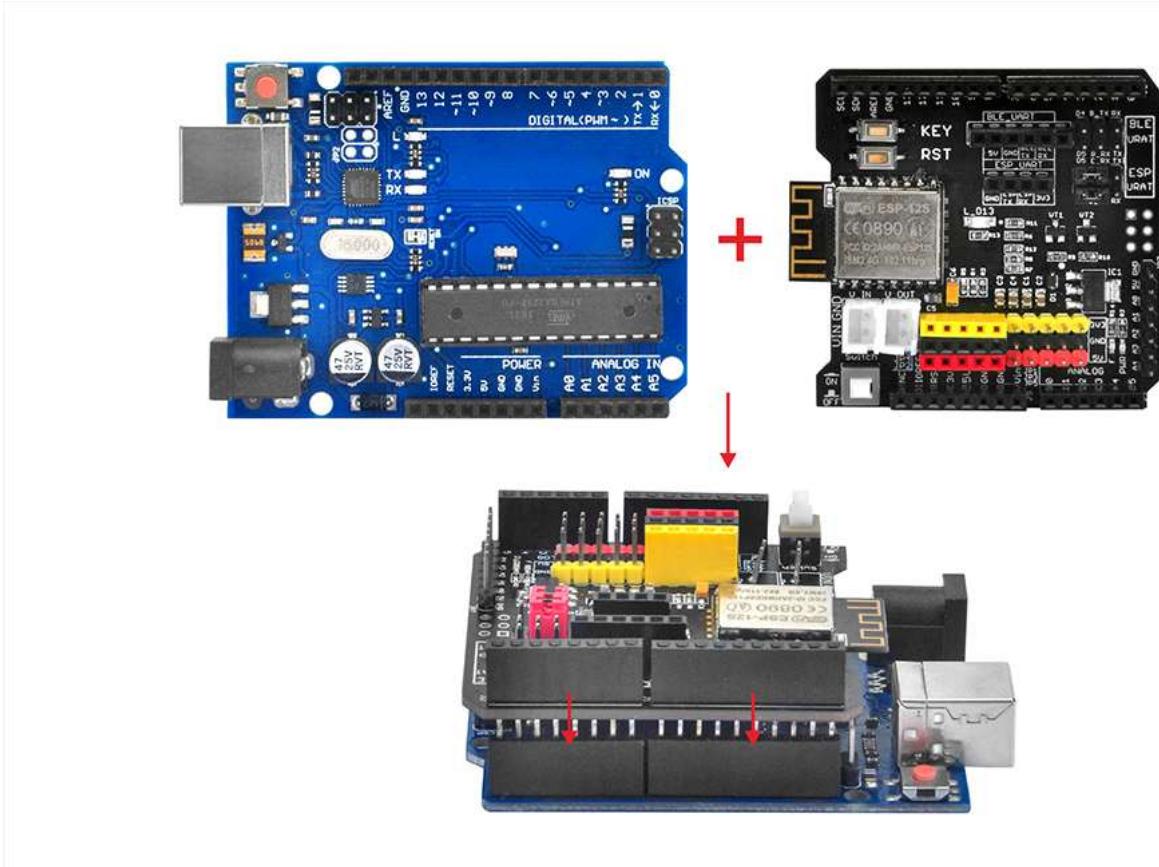
A) Fix this Battery Box on upper chassis with 4pcs M3 x 10 screws and M3 nuts.



B) Please install this Battery Box on upper chassis with 4pcs M3 x 10 screws and M3 nuts. (these are the same as screws and nuts for the 9V battery box. If you don't get 9V battery case, please ignore this step).

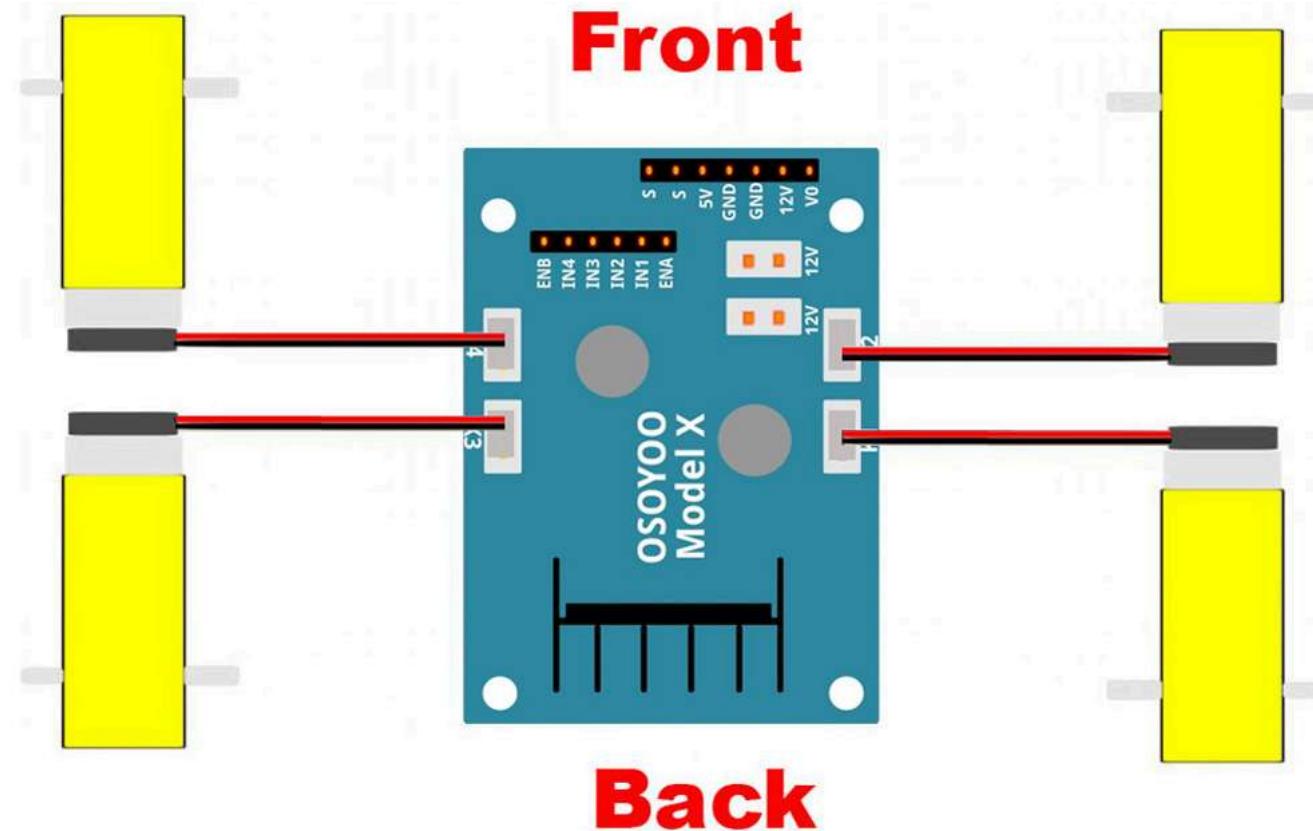


### 7) Insert OSOYOO Uart Wi-Fi shield V1.3 onto your board



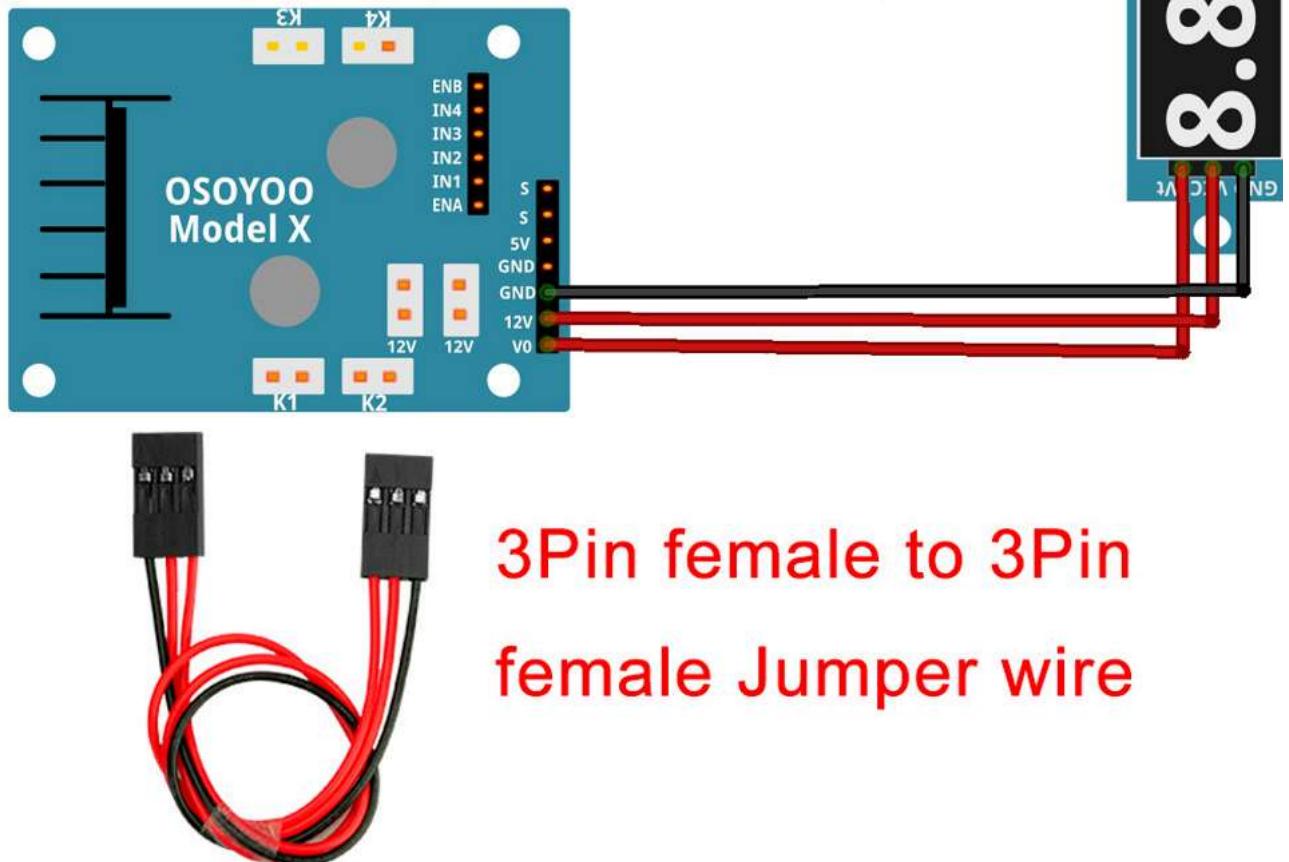
## CONNECTION

### 1) CONNECT 4 MOTORS TO OSOYOO MODEL X MOTOR DRIVER MODULE K1 TO K4 SOCKETS AS PER FOLLOWI



2) Connect Voltage Meter to OSOYOO MODEL X motor driver module with 3pin female to female jumper wire as below connection dia

OSOYOO MODEL X motor dirver module	Colors	Voltage Mete
GND	Black	GND
12V	Red	VCC
V0	Red	VT

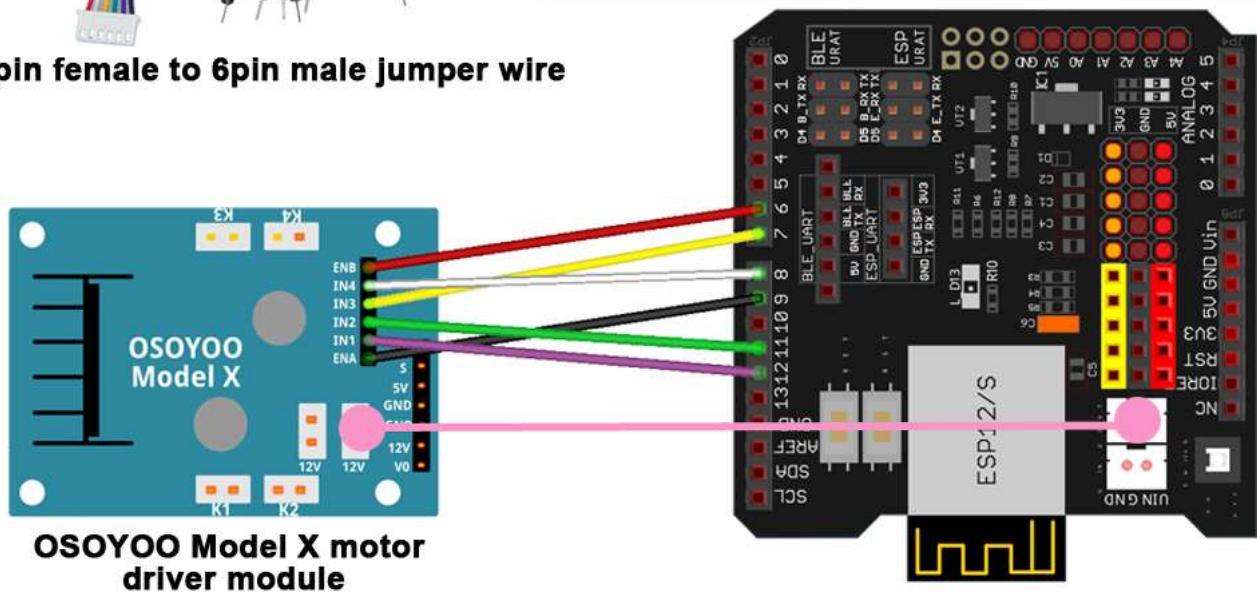


3Pin female to 3Pin  
female Jumper wire

- 3) Connect OSOYOO MODEL X motor driver module 6 control pins to OSOYOO Uart Wi-Fi shield V1.3 D6, D7, D8, D9, D11, D12 with 6pin female jumper wire, and 12V-GND socket to VIN-GND socket with OSOYOO 2pin PnP cable 20 cm as per following graph

**6pin female to 6pin male jumper wire**

OSOYOO MODEL X motor driver module	Color	OSOYOO Uart Wifi shield V1.3
ENA	Black	D9
IN1	Purple	D12
IN2	Green	D11
IN3	Yellow	D7
IN4	White	D8
ENB	Red	D6

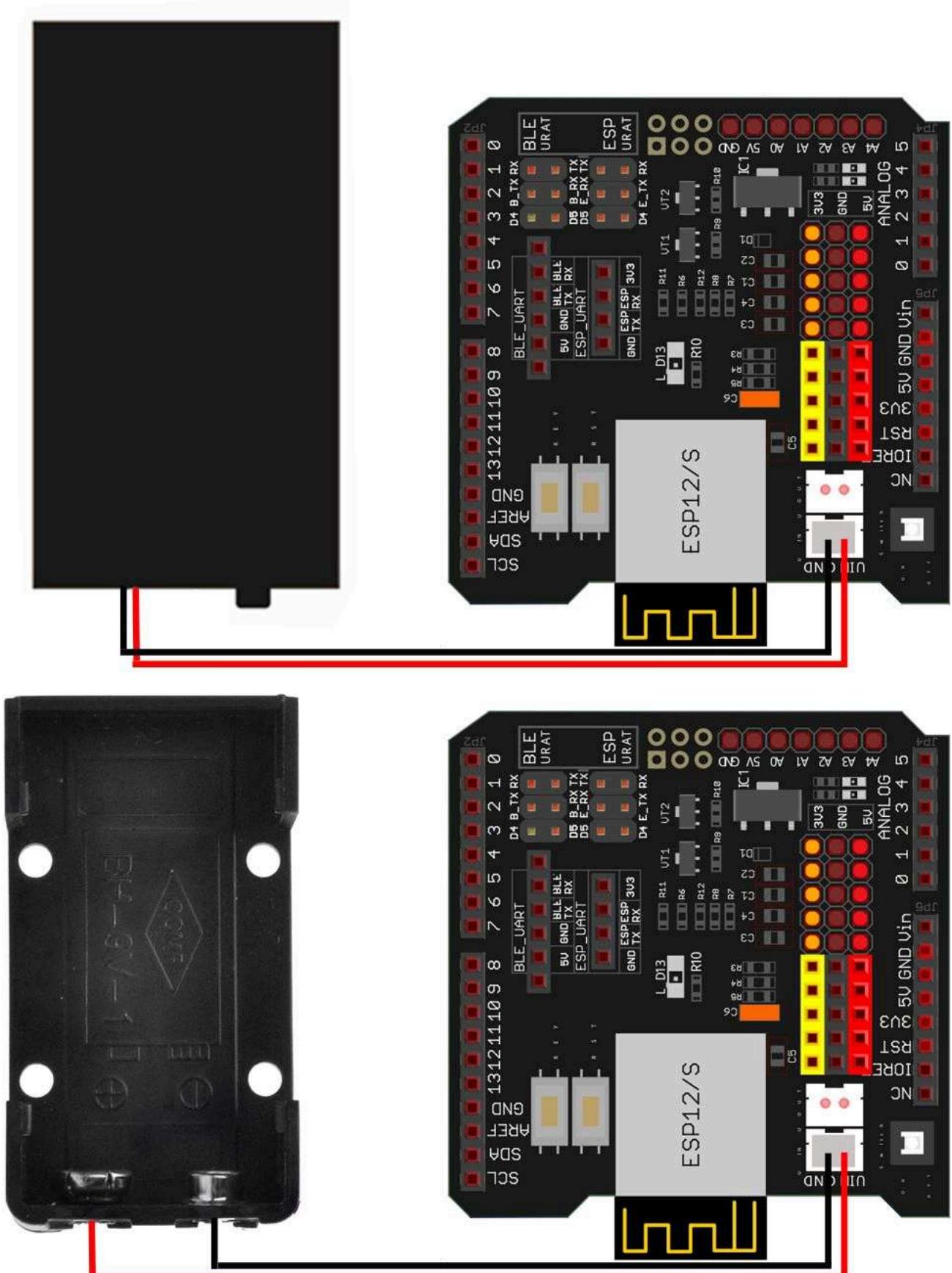


OSOYOO MODEL X motor driver module	OSOYOO Uart WiFi shield V1.3
12V	VIN
GND	GND

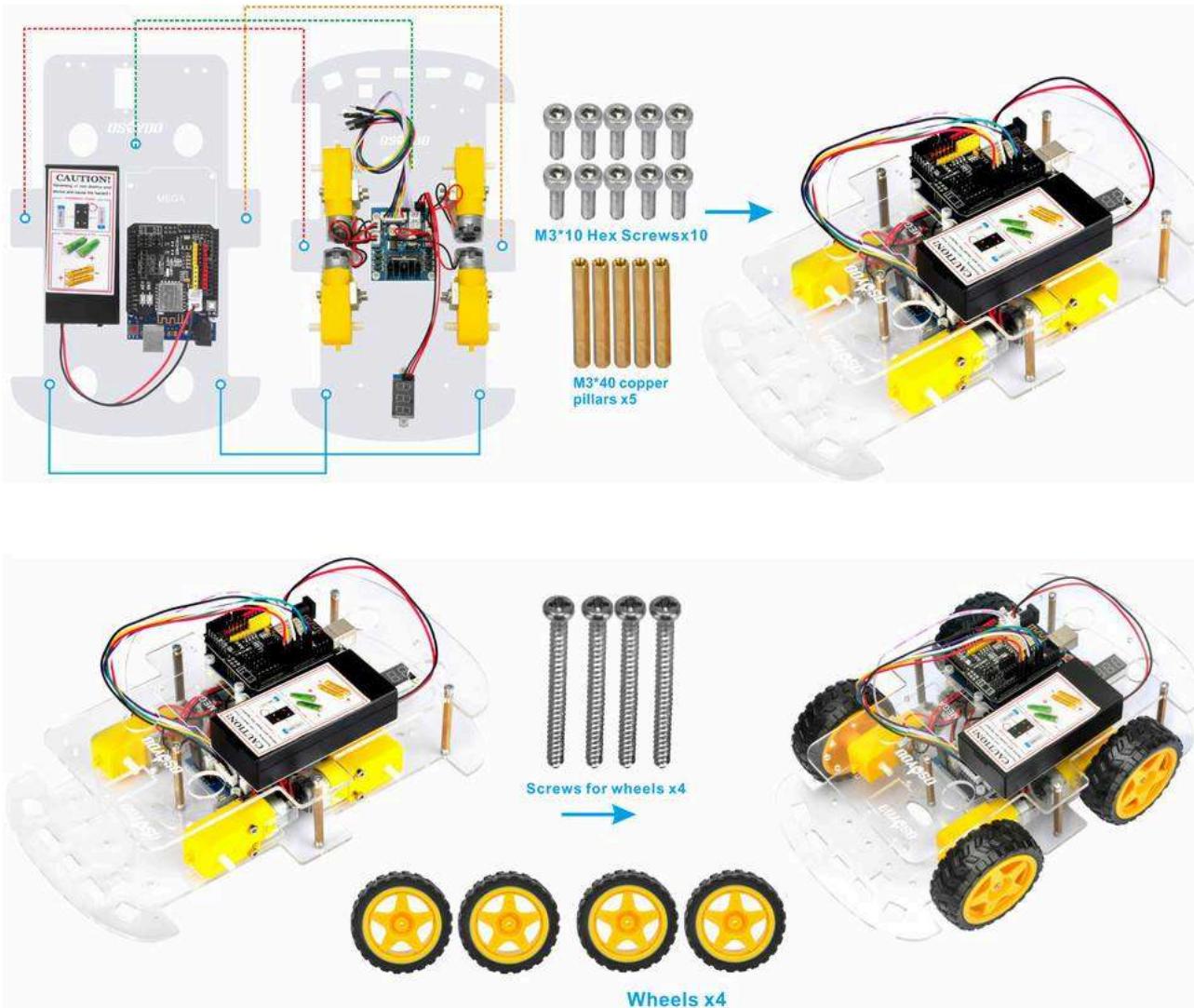
**Caution:**

When insert/remove this 6-pin plug into Model X 6-pin male socket, please hold the plastic pin-holder to do operation. Never wires to pull the plug out of the socket, otherwise it will damage the wires.

- 4) Connect battery box (battery box for 18650 batteries or for 9V battery) to VIN-GND socket of OSOYOO Uart Wi-Fi shield V1.3 according connection diagram



- 5) Connect upper chassis to lower chassis with five copper pillars and fix copper pillars with 10pcs M3\*10 hex screws, then install 4 wheels. (Please loosen the screws on the wheel if some of the wheels don't move)



Now hardware installation is almost down. Before we install 18650 batteries into the box, we need to burn the sample code into the board.

## Software Installation:

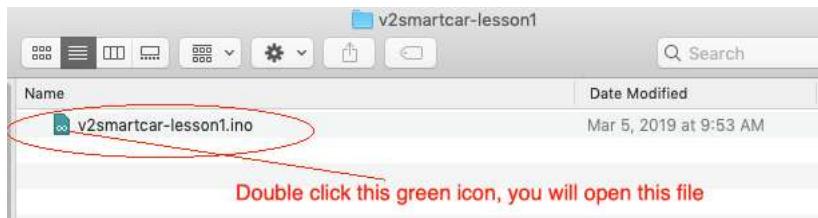
Open-source Arduino Software(IDE)		Download software here: <a href="https://www.arduino.cc/en/Main/Software?setlang=en">https://www.arduino.cc/en/Main/Software?setlang=en</a>
7 zip is a free zip utility that unzips zip files		Download 7zip here for free <a href="https://www.7-zip.org/">https://www.7-zip.org/</a>

**Step 1:** Install latest DE (If you have IDE version after 1.1.16, please skip this step). Download IDE from <https://www.arduino.cc/en/Main/Software?setlang=en>, then install the software.

**Step 2:** Download Lesson One sample code from <https://osoyoo.com/driver/v2smartcar-lesson1.zip>, unzip the download zip file smartcar-lesson1.zip, you will see a folder called v2smartcar-lesson1.

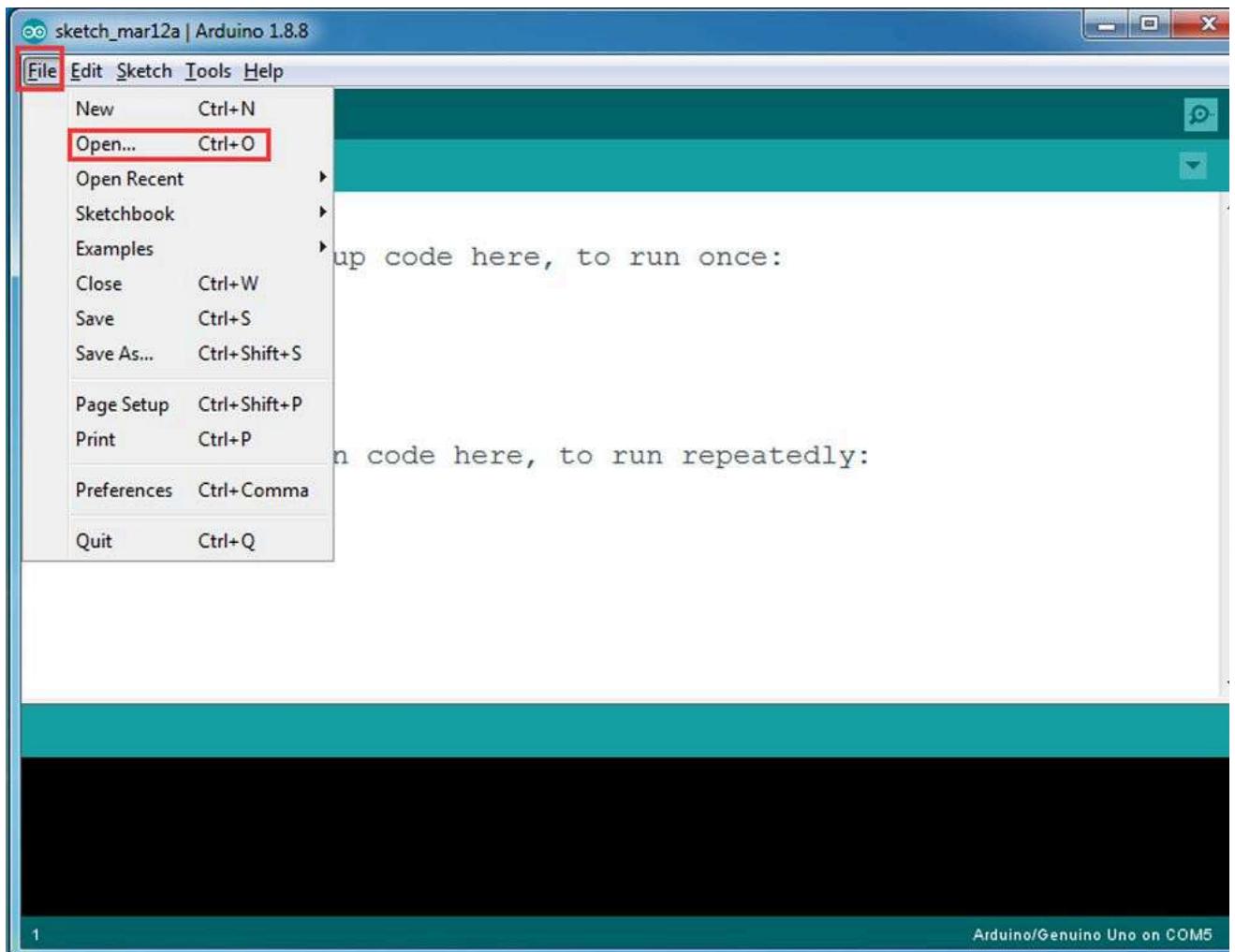


Double Click the folder name v2smartcar-lesson1, you will see v2smartcar-lesson1.ino file

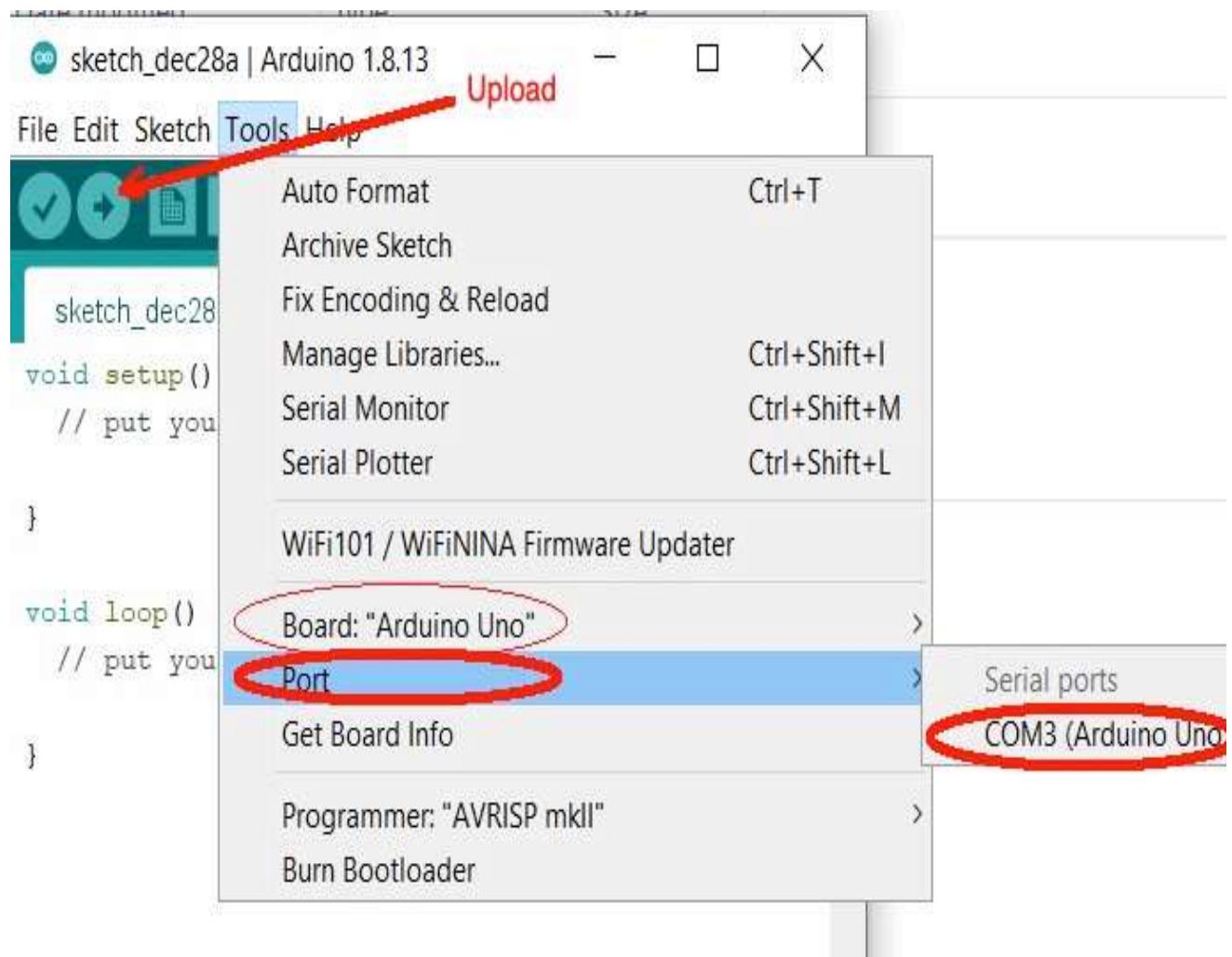


**Step 3:** Double Click “v2smartcar-lesson1.ino” in smartcar-lesson1 folder to open this file,

load the code into board.



**Step 4:** Choose corresponding board/port for your project, upload the sketch to the board.



### Final Testing:

**Note:**

- 1) Recommend 18650 batteries as these batteries can make the car run smoothly.
- 2) The 18650 batteries we used in lessons are around 65 mm (2.56 inch) long, without an internal protection circuit.
- 3) Check the box instruction and make sure polar direction is correct, otherwise it can destroy your device and cause f

Please install your 18650 batteries in battery box for 18650 as per following instruction:

T

# CAUTION!

Reversing +/- can destroy your device and cause fire hazard

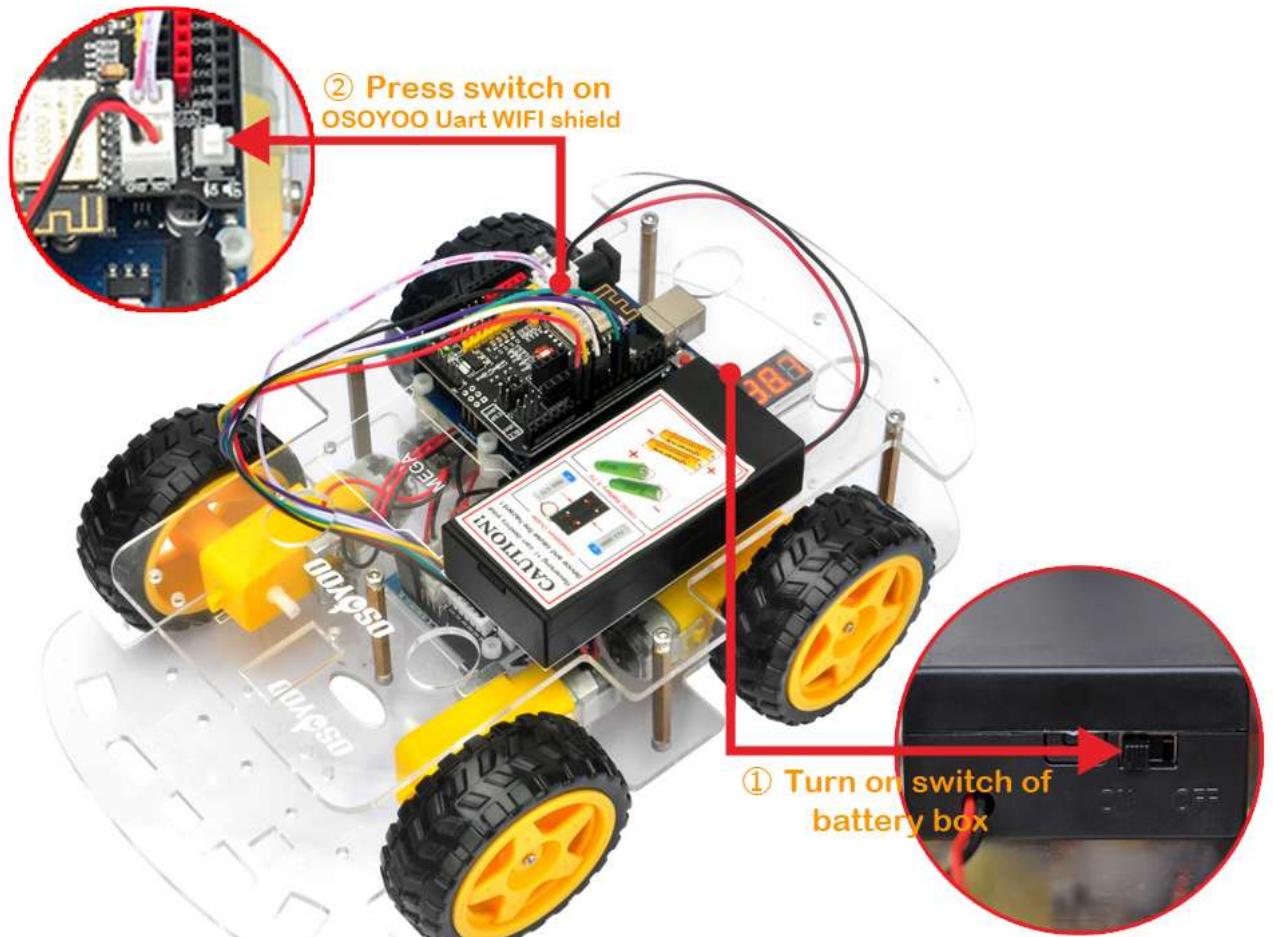
## Installation Guide



## 18650 Battery 3.7V



Disconnect robot car from PC, put battery into battery box. When you put the car on the ground and turn on the switch on OSOYOO U shield V1.3 and the switch on battery box if you install battery box for 18650, the car should go forward 2 seconds, then go backward 2 then left turn for 2 seconds, then right turn for 2 seconds, then stop. (If the car does not move as per above-mentioned result, you should check your wire connection, battery voltage (must over 7.2v).)



**!! Note: Please complete these two steps to turn on the car**

## Troubleshooting

If, after running the Lesson 1 code, you notice that one side wheels are not turning, or one side wheels can only move forward not backward, or only backward but not forward, the issue is likely a loose or broken wire in the 6-pin cable connecting to X board.

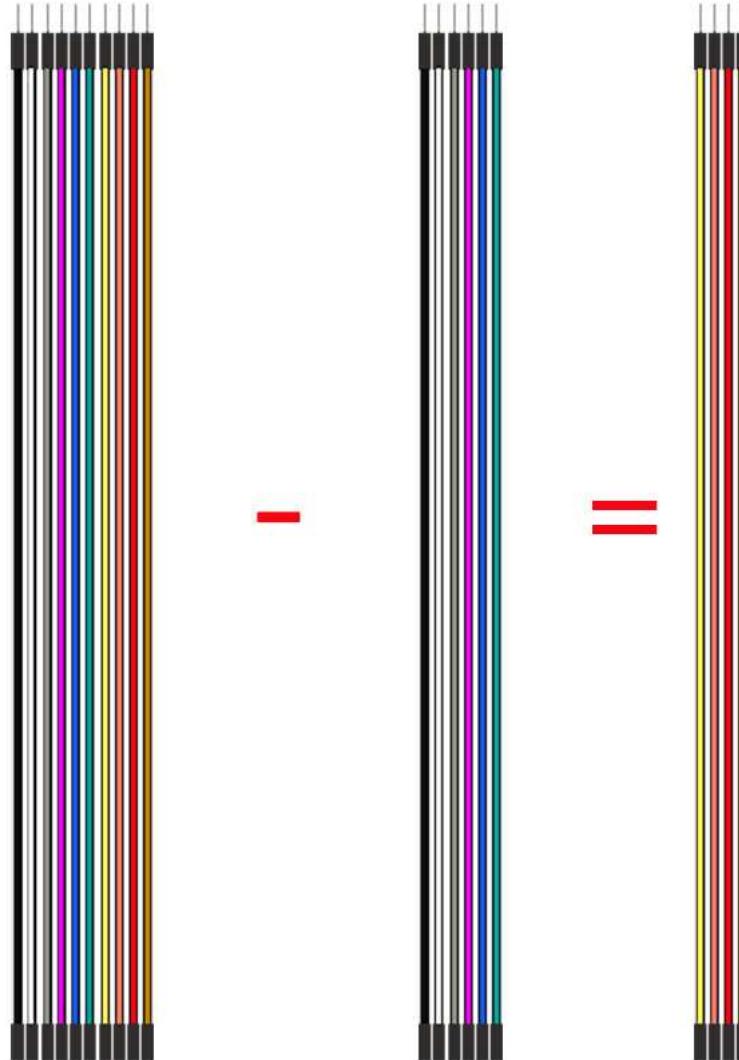
Here is the solution:

## Troubleshooting



**Step 1:** Disconnect the 6-pin cable that connects the Model X board and the Arduino board.

**Step 2:** Locate six (6) single spare Female-to-Male jumper wires from your kit (any color is fine).



**Step 3:** Use these six single jumper wires to manually reconnect the Model X pins (ENA, IN1, IN2, IN3, IN4, ENB) to the corresponding pins on the Arduino as per [previous model x wire map](#)

OSOYOO MODEL X motor driver module	OSOYOO WIFI shield
ENA	D9
IN1	D12
IN2	D11
IN3	D7
IN4	D8
ENB	D6

**Step 4:** Retest the Lesson 1 code to see if the issue is resolved. If the problem still exists, you can send your problem de support@osoyoo.info and our tech support team will help you.

[ROBOT CAR V2 HOME](#)
[NEXT LESSON](#)

DownLoad Url :

[osoyoo.com](#)

30 Comments



[ramkigudala says:](#)  
August 30, 2021 at 1:14 am

Hi,

I connected everything per the tutorial and downloaded lesson 1 code, but car is not moving.

[Log in to Reply](#)



[elaine says:](#)  
August 30, 2021 at 2:58 pm

I got a email from [ramki.gudala@gmail.com](mailto:ramki.gudala@gmail.com) with a photo. Is it from you.  
 If not, please take a photo about the connections to my email address: [elaine@vership.com](mailto:elaine@vership.com).  
 Thanks!

[Log in to Reply](#)



[jadon jung says:](#)  
June 5, 2023 at 1:52 am

The same is happening to me

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[Ulises says:](#)  
March 9, 2022 at 11:02 pm

Hi!

How can I reset from the fabric the robot car?

Thanks in advance.

[Log in to Reply](#)



[elaine says:](#)  
March 10, 2022 at 1:54 pm

I'm not quite sure what you mean. If you want to reset the robot, you can press the reset button on the motherboard; if you want to upload a different code to the robot, you may need a computer and upload the new code through the Arduino IDE. . .

[Log in to Reply](#)



[MrMtz2022 says:](#)  
May 2, 2022 at 12:00 pm

hello, i need help with the program upload to the car. i keep getting error stating the upload failed. i have checked all wiring and don't see any mistakes. any suggestions? (email:martinez.j3018

[Log in to Reply](#)



[elaine says:](#)  
May 5, 2022 at 10:35 am

Please paste the error and send to my email address: [elaine@vership.com](mailto:elaine@vership.com).

[Log in to Reply](#)



[dewi says:](#)  
May 16, 2022 at 6:34 am

Please help me.

I recently bought model-3 robot car kit for Arduino.

I have completed first stage hardware build and am trying to load lesson #1 sketch.

I am using a sony Vaio laptop with windows 10 Pro.I did the following steps  
 Arduino IDE downloaded  
 Lesson 1.zip downloaded

Lesson 1 sketch loads correctly to the IDE  
 I connected USB with the robot car. It looks OK with a solid green and flashing blue LED  
 in the IDE TOOLS I select Arduino UNO  
 In IDE TOOLS I selected port COM3 (I only have choice of COM3 or COM4)  
 In IDE SKETCH I upload

...at the bottom of the IDE screen I get at first green progress bar and information on number of bytes memory used.

The error message generated is here..

Arduino: 1.8.19 (Windows 10), Board: "Arduino Uno"

Sketch uses 1442 bytes (4%) of program storage space. Maximum is 32256 bytes.

Global variables use 9 bytes (0%) of dynamic memory, leaving 2039 bytes for local variables. Maximum is 2048 bytes.

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 1 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 2 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 3 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 4 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 5 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 6 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 7 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 8 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 9 of 10: not in sync: resp=0xd4

avrduude: stk500\_recv(): programmer is not responding

avrduude: stk500\_getsync() attempt 10 of 10: not in sync: resp=0xd4

Problem uploading to board. See <https://support.arduino.cc/hc/en-us/sections/360003198300> for suggestions.

This report would have more information with

"Show verbose output during compilation"

option enabled in File -> Preferences.

I then went to the recommended resource to fix the problem and did the following  
Windows device manager

PORTS – I looked here and Arduino is not identified

Universal Serial Bus Controllers – I looked here and Arduino is not identified

The layout of the information is not the same as shown in the website here "<https://support.arduino.cc/hc/en-us/articles/4407830972050-Find-and-stop-process-blocking-a-port>"

[Log in to Reply](#)



elaine says:

May 16, 2022 at 11:09 am

1. Please confirm whether the LED on board flash or not, when you press the reset button. If this led flash, it means the boot loader works well.
2. Please install the lastest version of IDE : <https://www.arduino.cc/en/Main/Software?setLang=en>
3. Please open IDE, and then choose processor: ATmega328p(Old bootloader)
4. Please confirm you don't install bluetooth module
5. Try to use USB2.0 port to upload the code
6. please use other USB cable and try again
7. Uninstall the CH340 driver and then install new driver from [http://www.osoyoo.com/driver/smarthome/7/CH340\\_341.rar](http://www.osoyoo.com/driver/smarthome/7/CH340_341.rar)

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samGamgy says:

July 23, 2022 at 10:49 pm

Hi! I recently set up the car with my son, and we have completed Lesson 1. When we tested...the car only moved backwards, and occasionally forward. But, if I pick it up and look at the wheels execute the correct code, and tries to forward, reverse, turn left, then right. It's almost like the pressure on the wheels affect how it is running. Any help would be greatly appreciated! Thanks!

[Log in to Reply](#)



elaine says:

July 25, 2022 at 4:12 pm

Hi, please check the voltage of the battery or recharge the battery and try it again.  
What's more, there are different directions of the wheels, please install the wheels in correct direction.

If all doesn't work, please take a video and send to my email address: [elaine@vership.com](mailto:elaine@vership.com)  
Thanks and best regards!

[Log in to Reply](#)



KarateBB8 says:  
July 27, 2022 at 6:37 am

Arduino in picture example in these instructions are not up to date and COM3 port doesn't exist or is not supported anymore also there are errors in the scratch here:

```
/usr/local/bin/arduino-cli compile -fqbn arduino:avr:uno -libraries /home/builder/opt/libraries/latest -build-cache-path /tmp -output-dir /tmp/072211837/build -build-path /tmp/arduino-build-0E46E6BC8ECE79FAF22DBF7BA49EC167 /tmp/072211837/sketch_jul24a
```

Compiling sketch...

```
/home/builder/.arduino15/packages/arduino/tools/avr-gcc/7.3.0-atmel3.6.1-arduino7/bin/avr-g++ -c -g -Os -w -std=gnu+11 -fpermissive -fno-exceptions -ffunction-sections -fdata-sections -fno-Wno-error=narrowing -MMDF -fno-mmcu=atmega328p -DF_CPU=16000000L -DARDUINO=10607 -DARDUINO_AVR_UNO -DARDUINO_ARCH_AVR -I/home/builder/.arduino15/packages/arduino/hardware/avr/1.8.4/cores/arduino -l/home/builder/.arduino15/packages/arduino/hardware/avr/1.8.4/variants/standard /tmp/arduino-build-0E46E6BC8ECE79FAF22DBF7BA49EC167/sketch/sketch_jul24a.ino.cpp -o /tmp/arduino-build-0E46E6BC8ECE79FAF22DBF7BA49EC167/sketch/sketch_jul24a.ino.cpp.o
```

/tmp/072211837/sketch\_jul24a/v2smartcar-lesson1.ino: In function 'void setup()':

```
/tmp/072211837/sketch_jul24a/v2smartcar-lesson1.ino:89:6: error: redefinition of 'void setup()'
```

void setup()

~~~~~

```
/tmp/072211837/sketch_jul24a/sketch_jul24a.ino:5:6: note: 'void setup()' previously defined here
```

void setup() {

~~~~~

/tmp/072211837/sketch\_jul24a/v2smartcar-lesson1.ino: In function 'void loop()':

```
/tmp/072211837/sketch_jul24a/v2smartcar-lesson1.ino:112:6: error: redefinition of 'void loop()'
```

void loop(){

~~~~~

```
/tmp/072211837/sketch_jul24a/sketch_jul24a.ino:9:6: note: 'void loop()' previously defined here
```

void loop() {

~~~~~

Error during build: exit status 1

[Log in to Reply.](#)



elaine says:  
July 28, 2022 at 6:03 pm

Do you mean you can't select coms port when you upload the code of lesson1?  
Or when you select the correct coms, there is a error.

If you can't find the coms port, please follow the video to install the driver: <https://www.youtube.com/watch?v=mDrV8b1E6zI>

[Log in to Reply.](#)



WithnellMakers says:  
September 18, 2022 at 11:00 pm

Hi,

We have followed lesson 1 and built the car and uploaded the code however the car does not move. The voltmeter does not light up – we have checked all the connection. Any help would be greatly appreciated!!

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elaine says:  
September 19, 2022 at 11:04 am

I have checked the video, and find that you have lost a 2Pin PnP cable from Wifi Uart to Model X: [https://osoyoo.com/picture/V2.1\\_Arduino\\_Robot\\_Car/Lesson1/1.jpg](https://osoyoo.com/picture/V2.1_Arduino_Robot_Car/Lesson1/1.jpg), so that there is no Model X.

Please try it again.  
Elaine

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kjcmf22 says:  
January 14, 2023 at 10:06 am

i put the code in and only 2 moters were moving then nothing happened

[Log in to Reply.](#)



elaine says:

[January 17, 2023 at 9:17 am](#)Please take photos about your connection of the robot and send to my email address: [elaine@vership.com](mailto:elaine@vership.com)[Log in to Reply](#)

Vimanbrav@13 says:

[June 3, 2023 at 11:26 pm](#)

Arduino:1.8.19 (Windows 10), Tarjeta:"Arduino Uno"

v2smartcar-lesson2:13:2: error: 'IRrecv' does not name a type

IRrecv IR(IR\_PIN); // IRrecv object IR get code from IR remoter

~~~~~

v2smartcar-lesson2:14:2: error: 'decode\_results' does not name a type

decode\_results IRResults;

~~~~~

C:\Users\PC\Desktop\ARDUINO\v2car-lesson2\v2smartcar-lesson2\v2smartcar-lesson2.ino: In function 'void do\_IR\_Tick()':

v2smartcar-lesson2:95:6: error: 'IR' was not declared in this scope

if(IR.decode(&amp;IRResults))

~~

C:\Users\PC\Desktop\ARDUINO\v2car-lesson2\v2smartcar-lesson2\v2smartcar-lesson2.ino:95:6: note: suggested alternative: 'ISR'

if(IR.decode(&amp;IRResults))

~~

ISR

v2smartcar-lesson2:95:17: error: 'IRResults' was not declared in this scope

if(IR.decode(&amp;IRResults))

~~~~~

C:\Users\PC\Desktop\ARDUINO\v2car-lesson2\v2smartcar-lesson2\v2smartcar-lesson2.ino: In function 'void setup()':

v2smartcar-lesson2:168:3: error: 'IR' was not declared in this scope

IR.enableIRIn();

~~

C:\Users\PC\Desktop\ARDUINO\v2car-lesson2\v2smartcar-lesson2\v2smartcar-lesson2.ino:168:3: note: suggested alternative: 'ISR'

IR.enableIRIn();

~~

ISR

exit status 1

'IRrecv' does not name a type

Este informe podría contener más información con

"Mostrar salida detallada durante la compilación"  
opción habilitada en Archivo -> Preferencias.[Log in to Reply](#)

vnumna@gmail.com says:

[July 20, 2023 at 2:57 am](#)

Hello,

Started to use Model N0. 20190005000 kit. Lesson 1 the car is going backwards first, then forward, left and right. Could you please help with this issue – For advance it is going backwards and going forward.

[Log in to Reply](#)

jadon jung says:

[July 21, 2023 at 11:54 am](#)

What is the set\_Motorspeed used for in the arduino code?

[Log in to Reply](#)

jadon jung says:

[September 30, 2023 at 10:14 pm](#)

Why is the car humming when I turn it on?

[Log in to Reply](#)



dangquan0129@gmail.com says:  
November 17, 2023 at 2:53 am

My name is Quan. I purchased your robot from Amazon, and I have encountered a few issues with the coding. I would like my robot to use the ultrasonic sensor to detect obstacles. When it encounters obstacles, I want it to turn right or left to avoid them and continue moving. However, I am having difficulty with the coding. I hope you can assist me.

I've sent you the email about that.

[Log in to Reply](#)



Raj says:  
December 28, 2023 at 2:38 am

After putting the code in only the left two motors run the ones on the right don't do anything but if I switch their connections I get the opposite effect. Is it a dodgy motors driver module

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elaine says:  
May 7, 2024 at 6:55 pm

Please change the wires from Model X to Wifi shield. If the issue occurs again, please contact with my email: [elaine@vership.com](mailto:elaine@vership.com)

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GiHe says:  
February 24, 2024 at 11:16 pm

Hi,

When running the program :  
go\_Advance();//Forward ==> OK  
go\_Back();//Reverse ==> Right back only  
go\_Left();//Turn left ==> Right forward only  
go\_Right();//Turn right ==> OK  
stop\_Stop();//Stop

I checked wire connection OK  
I check PINS OK

Any idea please ?

Thanks a lot

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elaine says:  
May 7, 2024 at 6:53 pm

It means that the left motors can't go back. Please change the wires from Model X to Wifi shield, and exchange the right motors with left motors. If the issue occurs again, please contact with my email: [elaine@vership.com](mailto:elaine@vership.com)

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RobotCar99 says:  
March 20, 2024 at 4:24 pm

Hi, how much weight can it hold/carry?

[Log in to Reply](#)



elaine says:  
May 7, 2024 at 6:47 pm

This is an acrylic robot car for learning how to use Arduino to code. If you want to buy a robot to carry heavy weight, please visit our product: <https://osoyoo.com/2022/07/05/v2-metal-chassis-wheel-robotic-for-arduino-mega2560-introduction-model-2021006600/>

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James Robb says:  
July 27, 2024 at 2:24 am

I am returning to this robot. I have completed Lesson 1. When I place robot on ground and switch on, it makes one circle, in reverse, to the right. All connections have been checked and are correct. Any suggestions?

Regards, James.

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admin says:  
July 27, 2024 at 8:23 am

based on your description, the 6pin cable connecting model\_x board to wifi shield might have problem. please use 6 single pc wire to replace that 6pin cable and try again.

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