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Kit voiture robot OSOYOO V2.1 Leçon 1: Voiture robot de base

Heure de publication : 2020-05-12 18:05:49

 Catégorie : [V2.1 Kit de voiture robot](#)

REMARQUE : TOUS LES PRODUITS OSOYOO POUR ARDUINO SONT DES CARTES TIERCES ENTièrement COMPATIBLES AVEC ARDUINO.

Détaillants en ligne autorisés

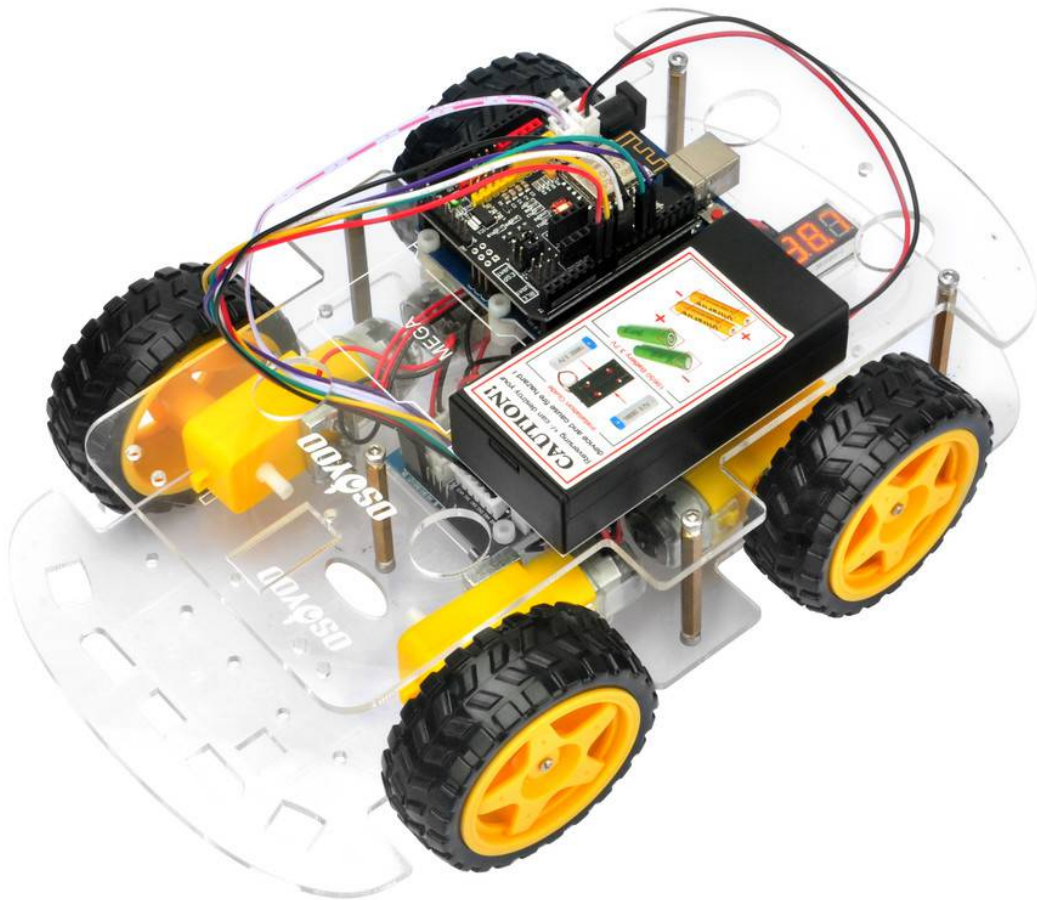
Où acheter l'ensemble avec batteries 18650 et chargeur USB

Acheter aux États-Unis	Acheter au Royaume-Uni	Buy from DE	Acheter auprès de l'informatique	Acheter en FR	Acheter chez ES	Acheter chez JP

Où acheter l'ensemble avec les boîtiers de piles 9V et 18650

Acheter aux États-Unis	Acheter au Royaume-Uni	Buy from DE	Acheter auprès de l'informatique	Acheter en FR	Acheter chez ES	Acheter chez JP

- **Objectif**
- **Pièces et appareils**
- **Hardware Installation**
 - Installer des appareils
 - Connexions
- **Software Installation:**
- **Essai**



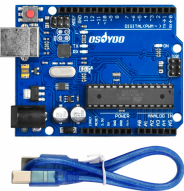
Bienvenue à la première leçon de voiture intelligente !

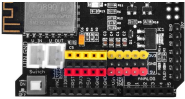
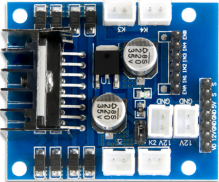
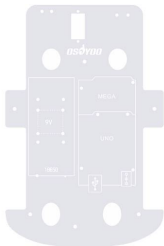
Objectif

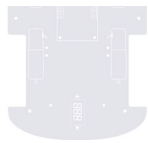
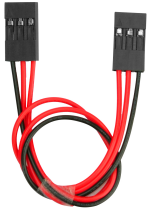
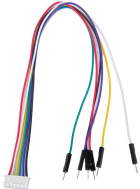
Dans cette leçon de version "Hello World", nous installerons le cadre le plus important dans la voiture intelligente et programmerons la voiture pour qu'elle effectue quelques mouvements simples. Si vous avez réussi le test de mouvement de cette leçon, cela signifie que la carte, le voltmètre, le module de commande du moteur, les moteurs, les batteries, le châssis et les connexions de fil entre ces pièces fonctionnent bien.

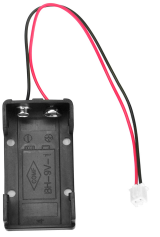
Comme vos expériences dans les futures leçons sont toutes basées sur le cadre de travail de la première leçon, il est très important de tester correctement l'installation et l'exemple de code de cette leçon.

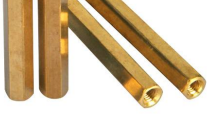
Pièces et appareils :

Non.	Image	Appareil	Qté.	Accessoires	Lien
1		Carte de base OSOYOO	1	Vis en plastique M3 x 3 Écrou en plastique M3 x 4 Pilier en plastique M3 x 4	Cliquez ici pour acheter
2		Bouclier Wi-Fi OSOYOO Uart V1.3	1		Cliquez ici pour acheter

					
3		Module de pilote de moteur OSOYOO modèle X	1	Vis en plastique M3 x 4 Écrou en plastique M3 x 4 Pilier en plastique M3 x 4	Cliquez ici pour acheter
4		Volt-mètre	1	Vis en plastique M3 x2 Écrou en plastique M3 x 2 Pilier en plastique M3 x 2	Cliquez ici pour acheter
5		Motoréducteur	4	Supports de moteur en métal avec vis x4	Cliquez ici pour acheter
6		Supports de moteur en métal avec vis	4		Cliquez ici pour acheter
7		Roue	4	Vis pour roues x4	Cliquez ici pour acheter
8		Châssis supérieur de la voiture	1	Vis hexagonale M3*10 x5	Cliquez ici pour acheter
9		Châssis de voiture inférieur	1	Vis hexagonale M3*10 x5 Pilier en cuivre M3*40 x5	Cliquez ici pour acheter

					
10		Fil de raccordement femelle 3 broches à femelle 3 broches	1		Cliquez ici pour acheter
11		Fil de raccordement 6 broches mâle à 6 broches femelle	1		Cliquez ici pour acheter
12		Câble OSOYOO 2pin PnP 20cm	1		Cliquez ici pour acheter
13		Philips screwdriver	1		Cliquez ici pour acheter
14		Tournevis hexagonal	1		Cliquez ici pour acheter
15		18650 boîtier de batterie	1	Vis M3*10 x4 Écrous M3 x4	Cliquez ici pour acheter
16		Chargeur de batterie pour batterie 18650 (en option)	1		Cliquez ici pour acheter

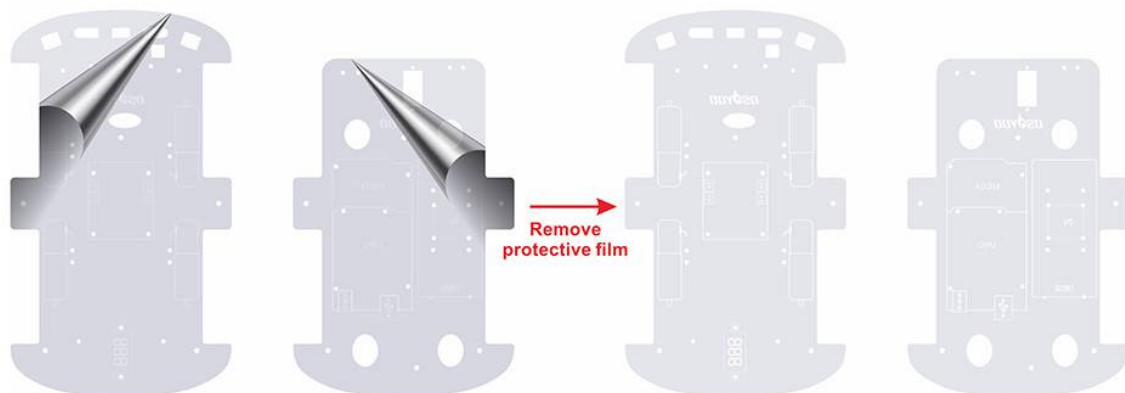
					
17		1 paire de batteries 18650 (en option)	1		Cliquez ici pour acheter
18		Boîte à piles 9 V (en option)	1	Vis M3*10 x4 Écrous M3 x4	Cliquez ici pour acheter
19		Pile 9V (non incluse)	1		Cliquez ici pour acheter
20		M3*10 Hex Screws	10		
21		M3*10 screw	4		
22		M3 nut	4		
23		Copper pillar	5		

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

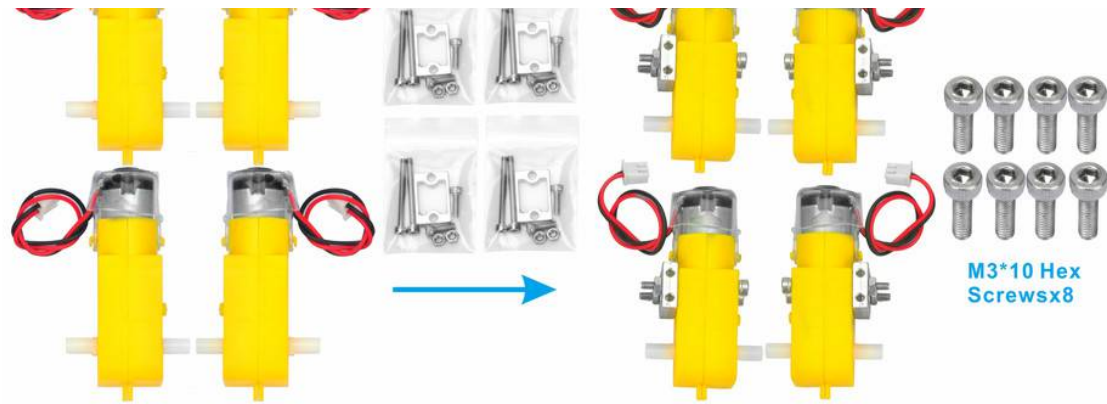
Hardware Installation

INSTALL DEVICES

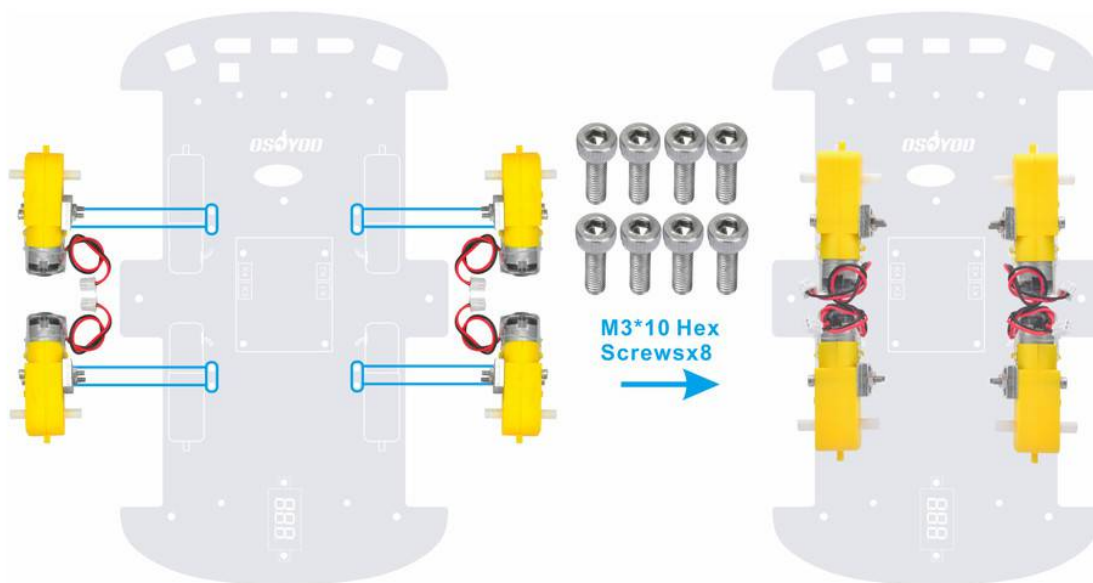
- 1) Remove the protective film on upper and low car chassis (**Each car chassis has one protective film**)



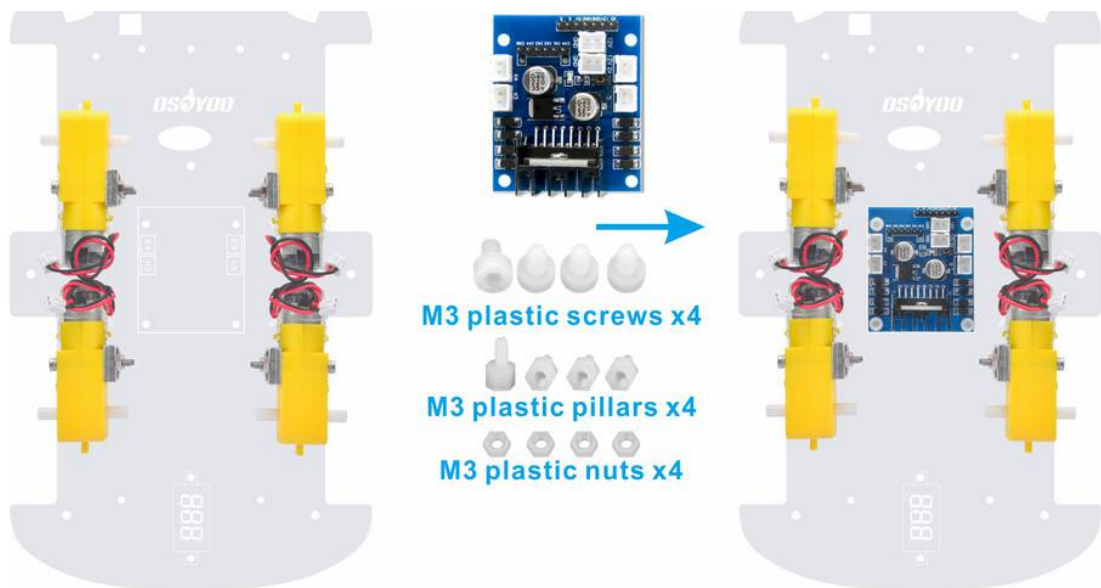
- 2) fix 4 motors with Metal Motor Holders as follow (**Please check the motor direction before installing metal motor holders**)



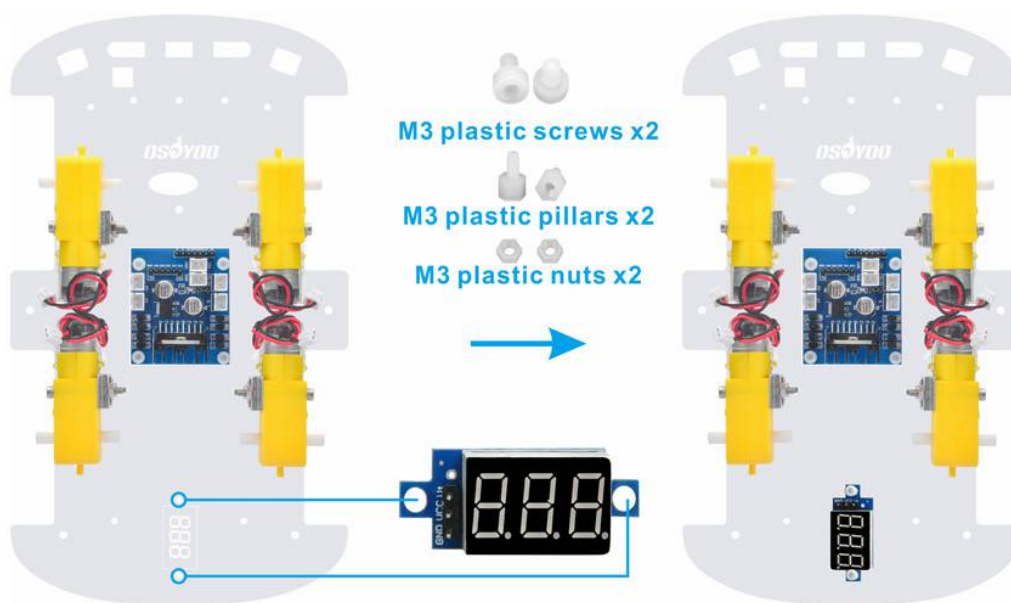
3) Fix 4 motors on lower car chassis with screw M3*10 hex screws via hex screwdriver (screws for this step are in metal motor holder package)



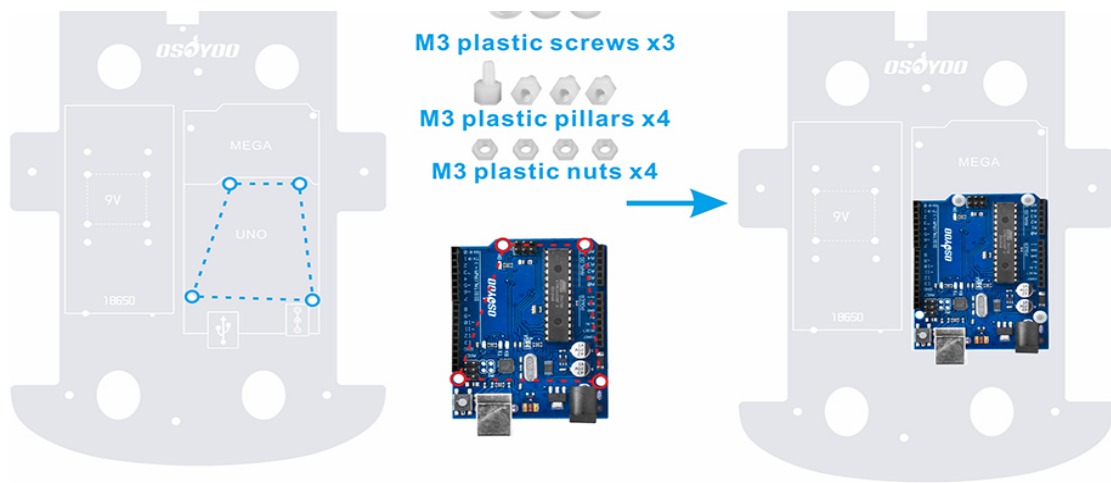
4) Install OSOYOO MODEL X motor driver module to lower car chassis with 4pcs M3 plastic screws, plastic pillars and plastic nuts. (Please make sure you install the OSOYOO MODEL X motor driver module in correct direction.)



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

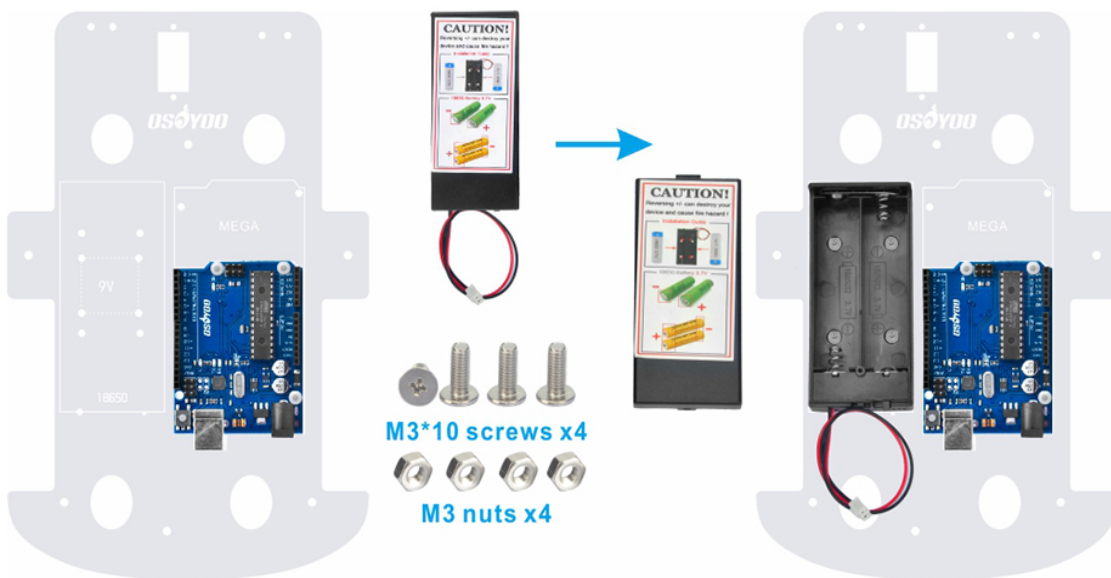


6) Fix OSOYOO basic board on upper car chassis with 4pcs M3 plastic screws, plastic pillars and plastic nuts. **(Please install board at the side with printing)**

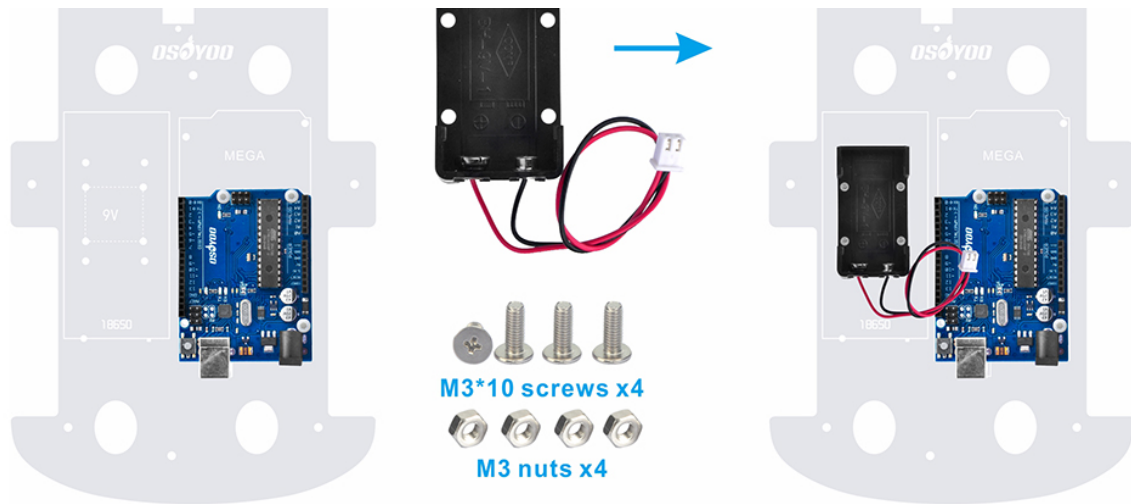


7) There are two kind of robot car set for you to choose to buy. The one is with 2 battery box(18650 battery box and 9V battery box), and the other one is with 1 pair 18650 batteries and 1 piece battery charger for 18650. We recommend to use 18650 batteries as the power. If you want to use 9V battery 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.

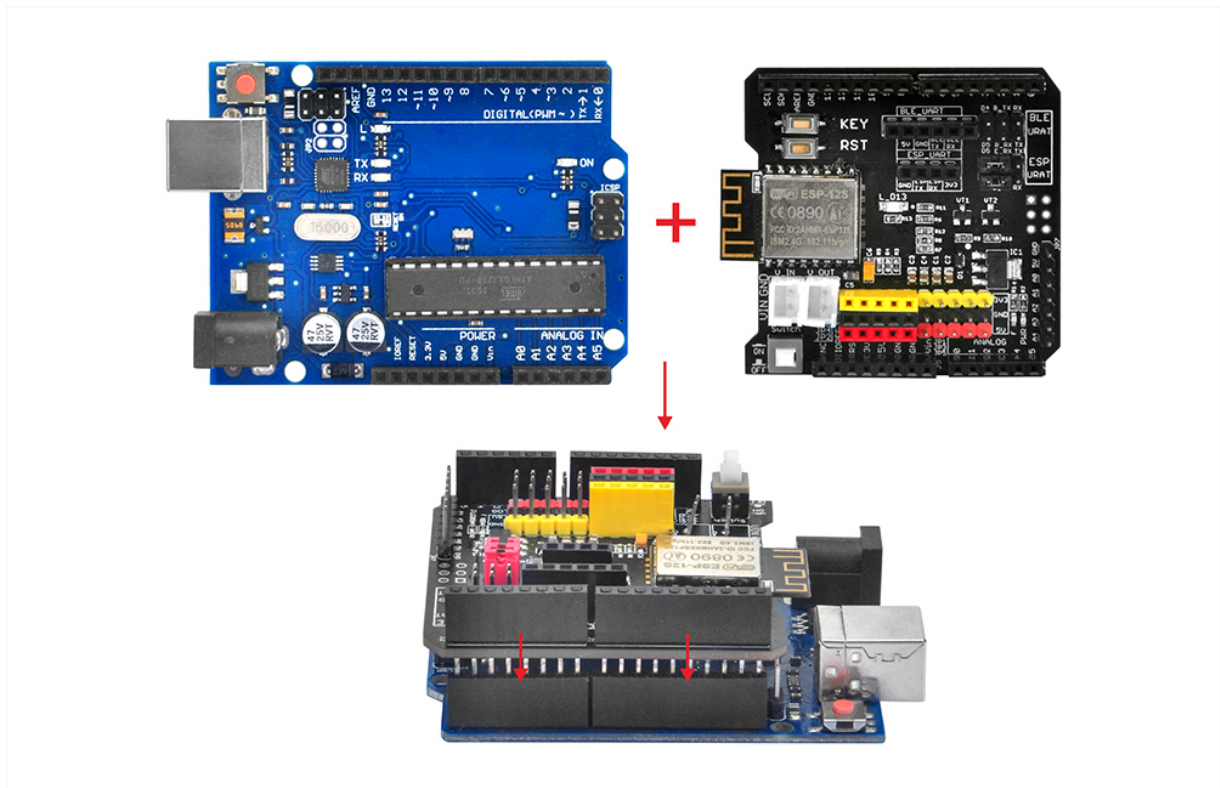
A) Fix this Battery Box on upper chassis with 4pcs M3 x 10 screws and M3 nuts.



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 18650 battery box. If you don't get 9V battery case, please ignore this step).

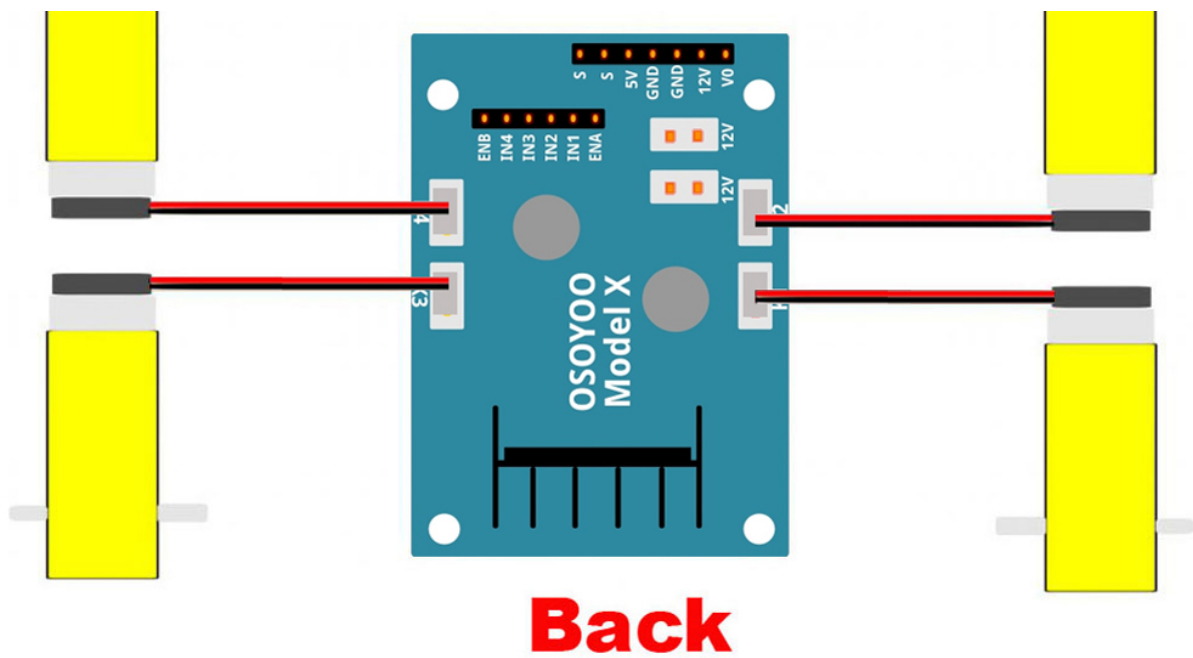


7) Insert OSOYOO Uart WIFI shield V1.3 onto your board



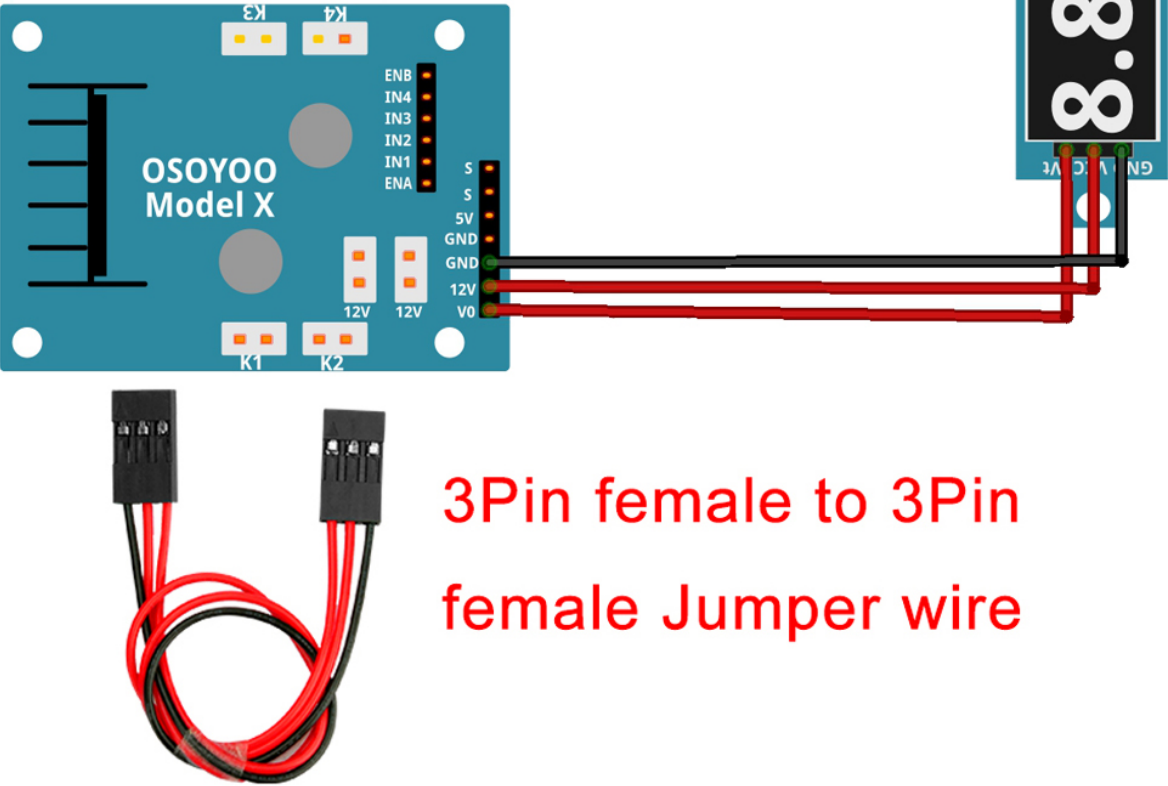
CONNECTION

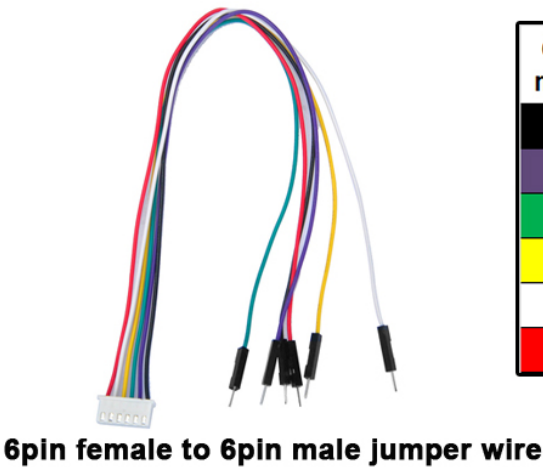
1) CONNECT 4 MOTORS TO OSOYOO MODEL X MOTOR DRIVER MODULE K1 TO K4 SOCKETS AS PER FOLLOWING GRAPH



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

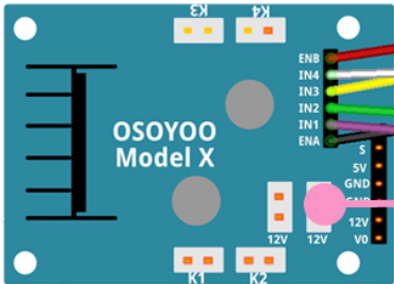
OSOYOO MODEL X motor dirver module	Colors	Voltage Mete
GND	Black	GND
12V	Red	VCC
V0	Red	VT



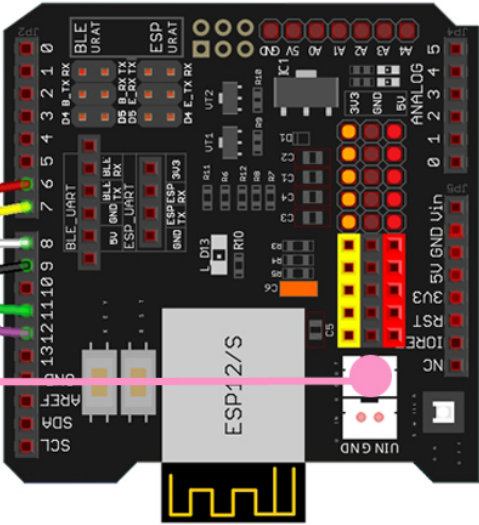


6pin female to 6pin male jumper wire

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

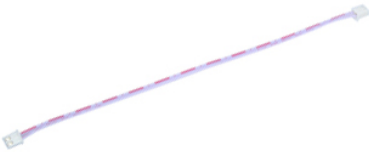


OSOYOO Model X motor driver module



OSOYOO Uart WIFI shield V1.3

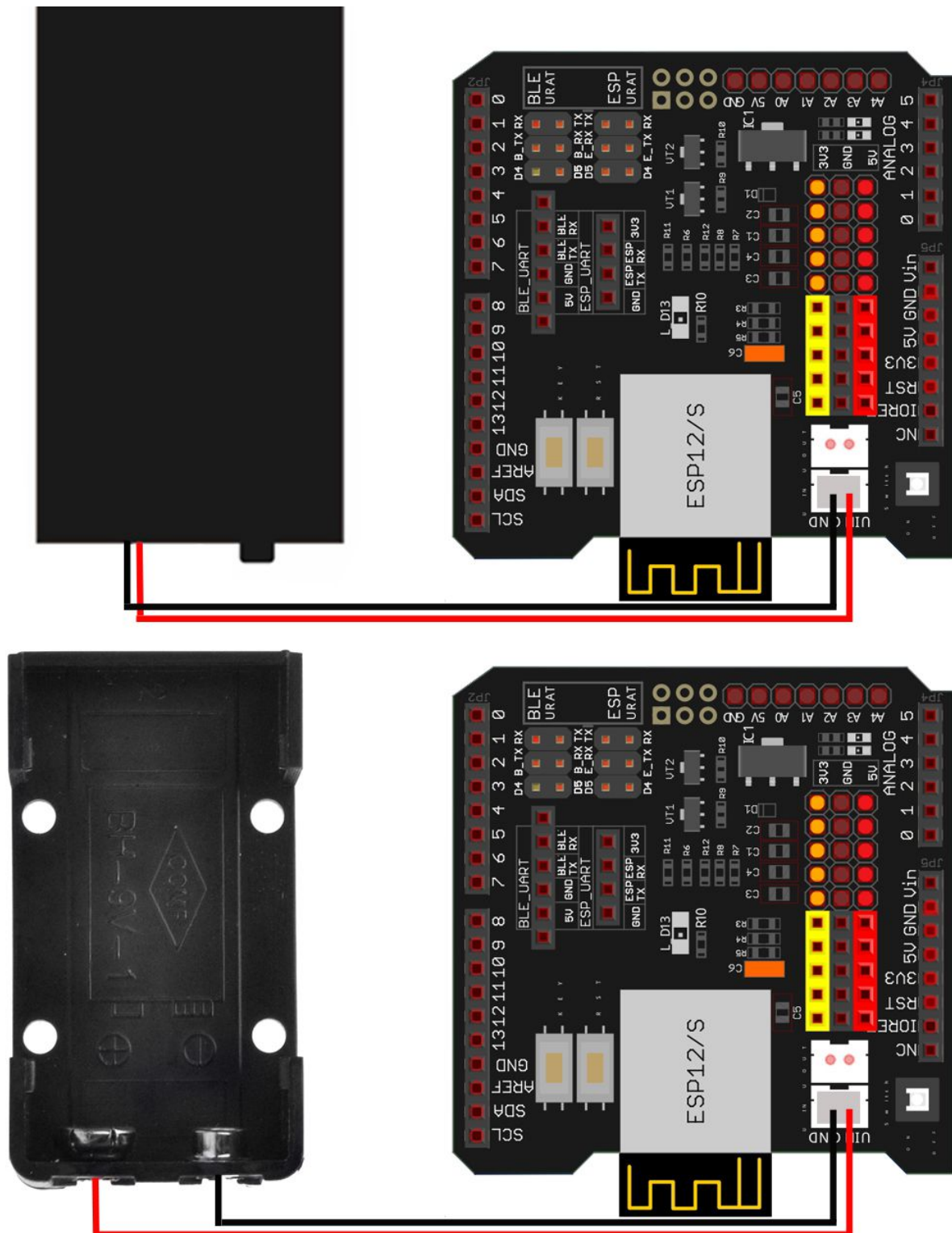
OSOYOO MODEL X motor driver module	OSOYOO Uart WiFi shield V1.3
12V	VIN
GND	GND



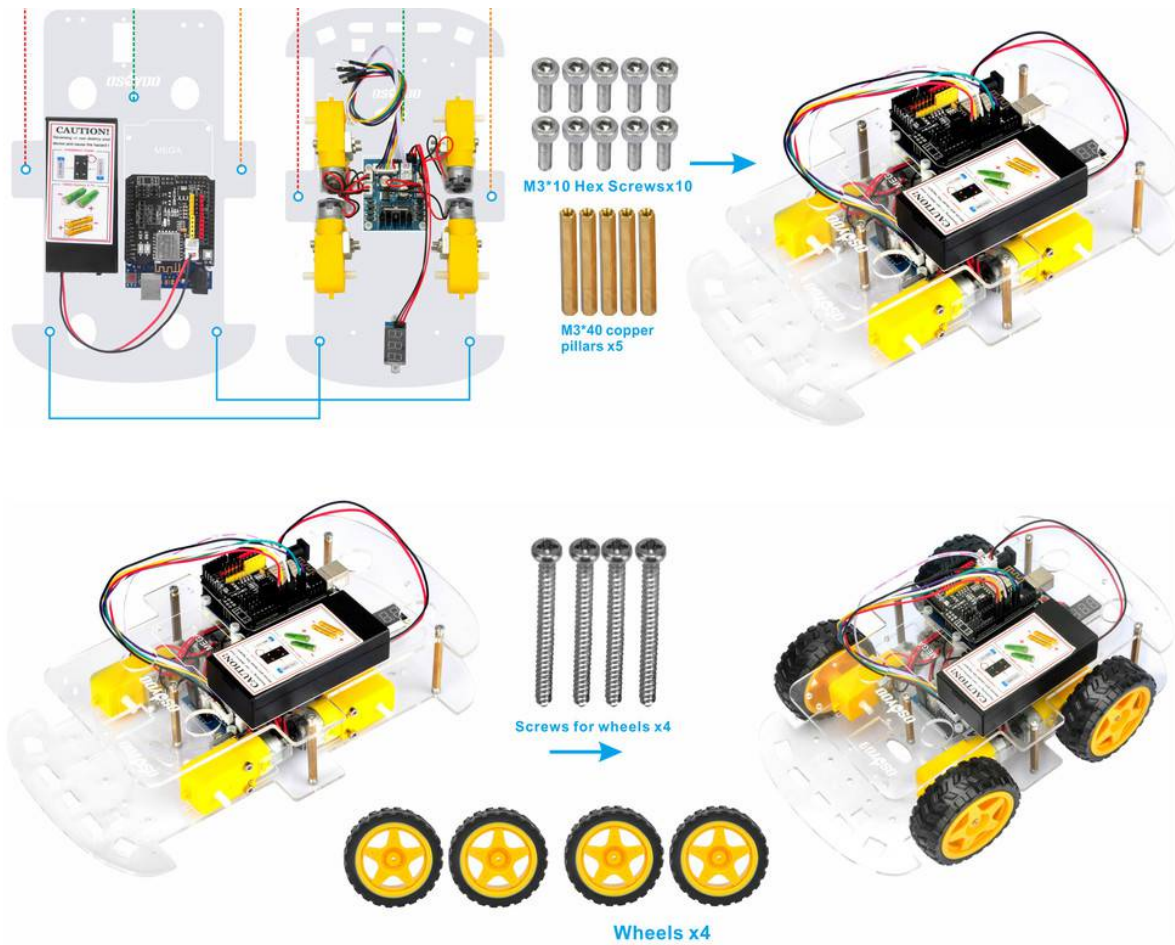
OSOYOO 2pin PnP cable 20cm

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 drag the 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 WiFi shield V1.3 according below 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 onto the motors. (Please loosen the screws on 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 burn the sample code into board First.

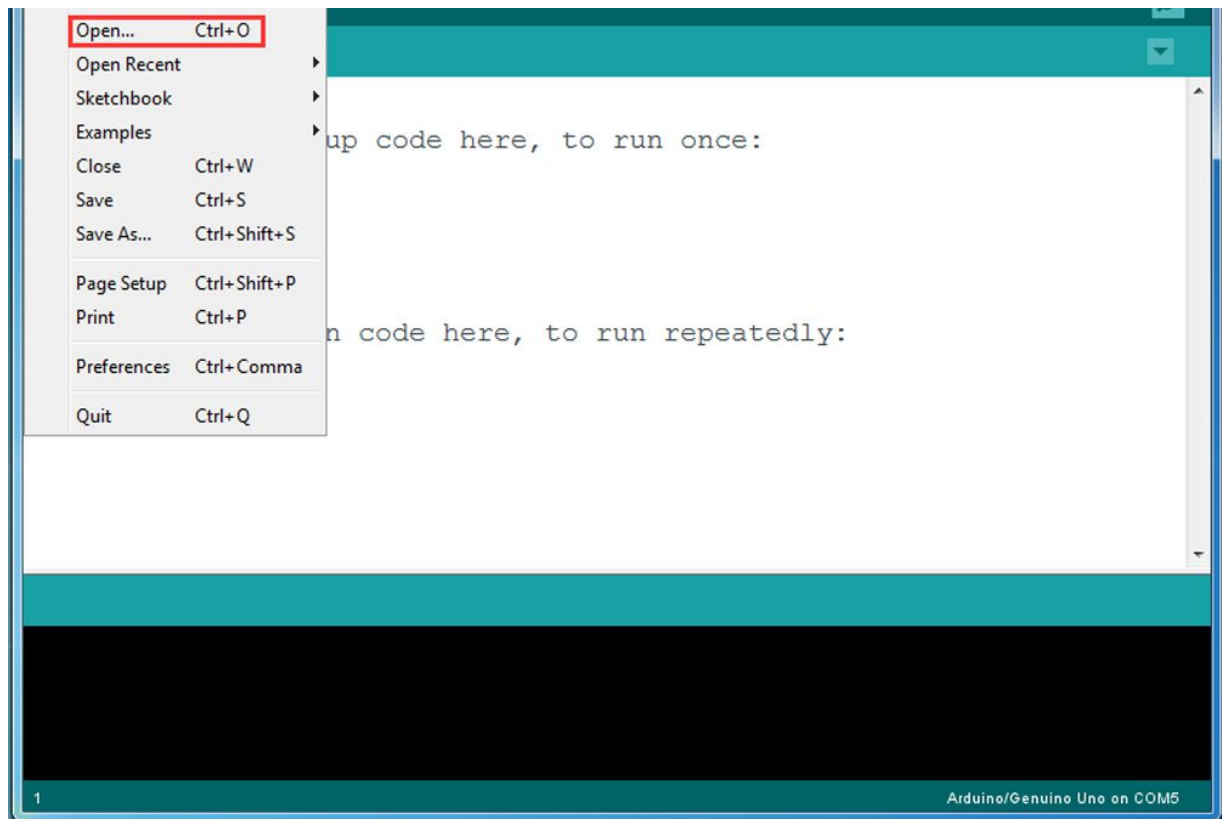
Software Installation:

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

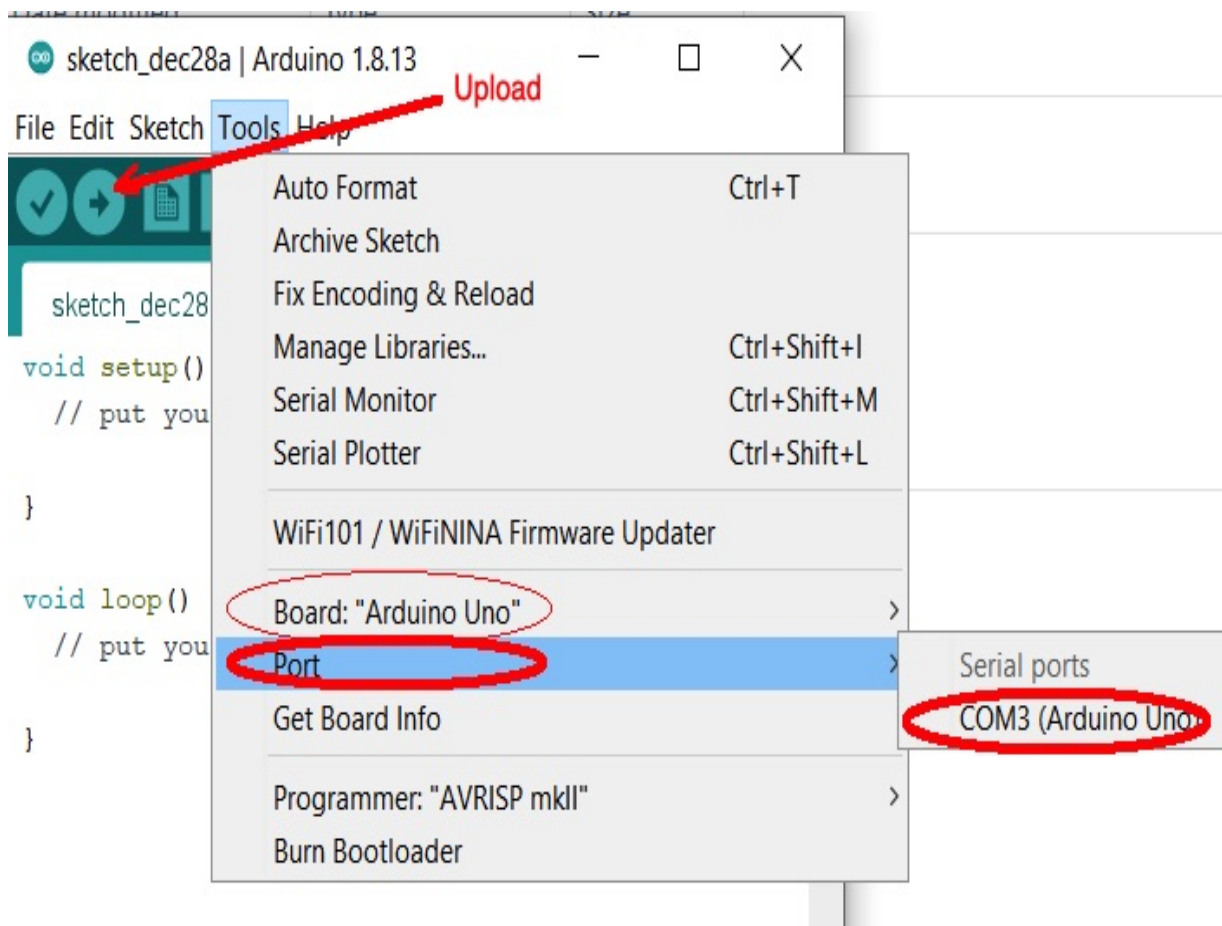
Step 1: Install latest DE (If you have IDE version after 1.1.16, please skip this step). Download IDE from <https://www.arduino.cc/en/Main/Software?setlang=en> , then install the software.

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.

Step 3: Connect board to PC with USB cable, Open Arduino IDE -> click file -> click Open -> choose code "v2smartcar-lesson1.ino" in smartcar-lesson1 folder, load the code into board.



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



Final Testing:

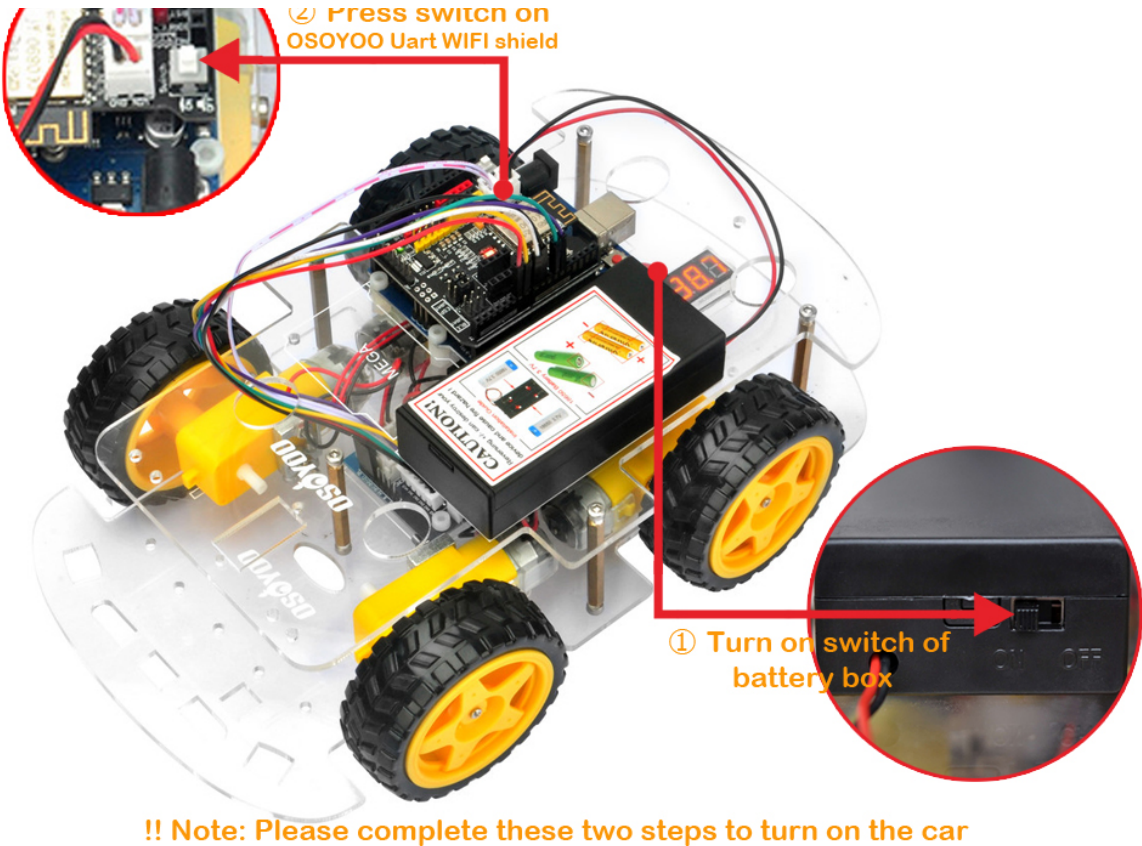
2) The 18650 batteries we used in lessons are around 65 mm (2.56 inch) long, without an internal protection circuit.

3) Check the box instruction and make sure polar direction is correct, otherwise it can destroy your device and cause fire hazard.

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



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 Uart WIFI 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 seconds, 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).)



ROBOT CAR V2 HOME NEXT LESSON

DownLoad Url : osoyoo.com

4 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 ramkigudala@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.
Thanks!
[Log in to Reply.](#)



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 to connect a computer and upload the new code through the Arduino IDE. . . .
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