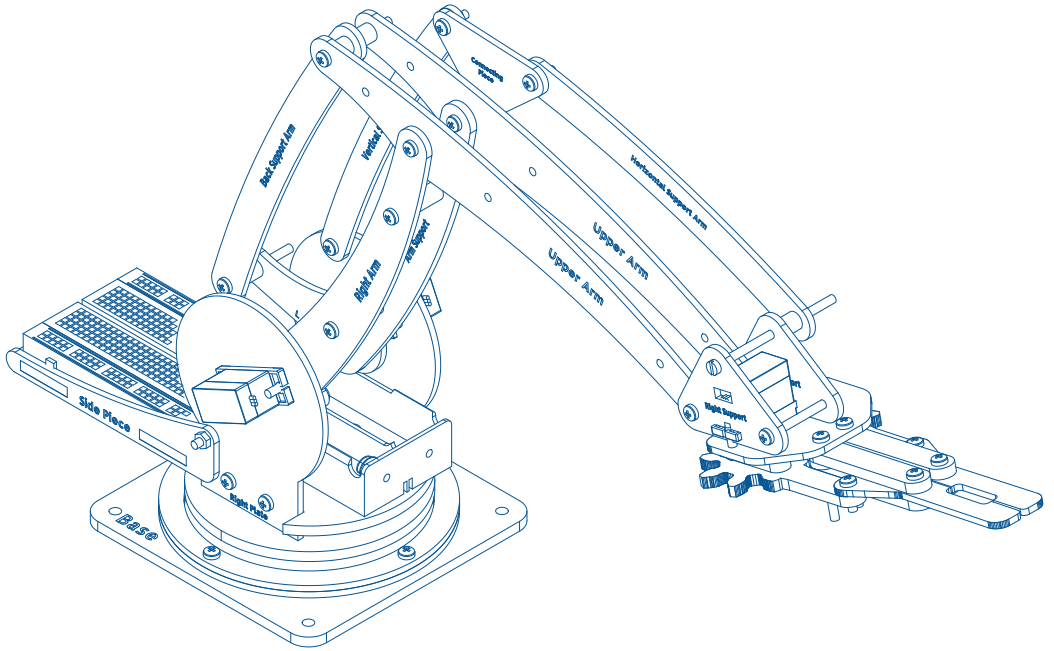


مشروع ذراع الروبوت الخشبية



هيا نبدأ رحلتنا إلى الفضاء معاً!



Wooden Arm Robot Booklet

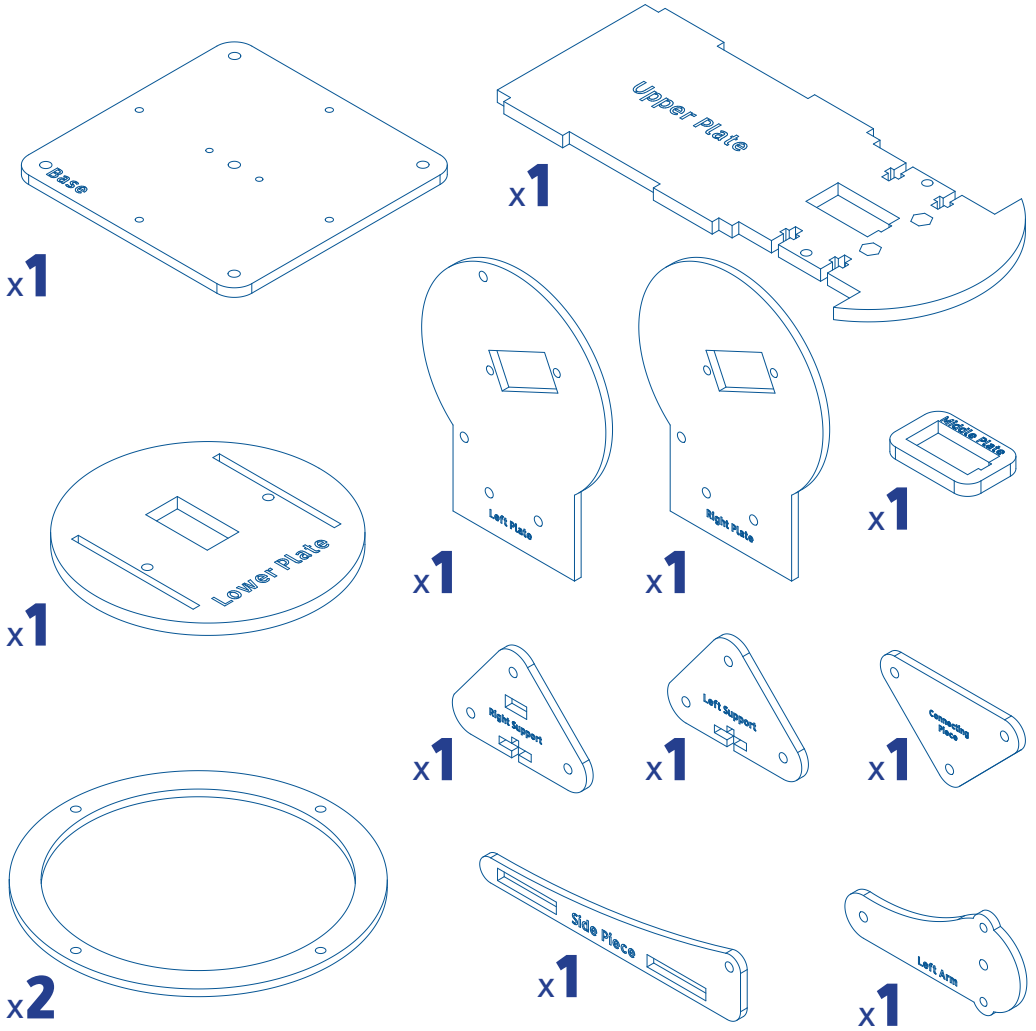
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مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!

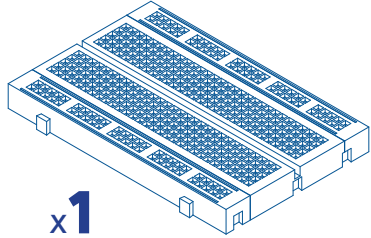
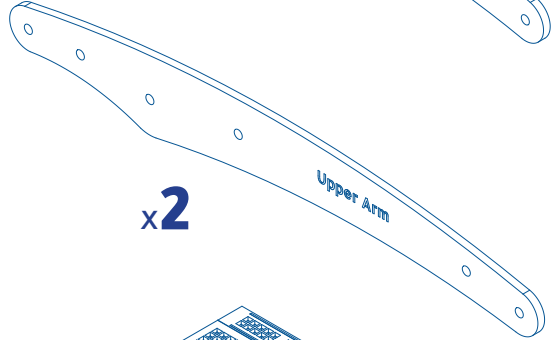
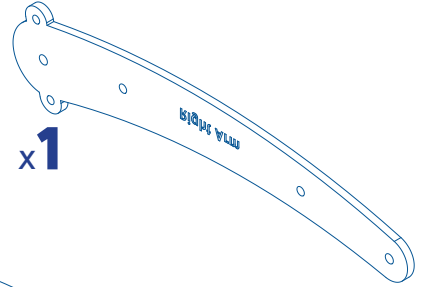
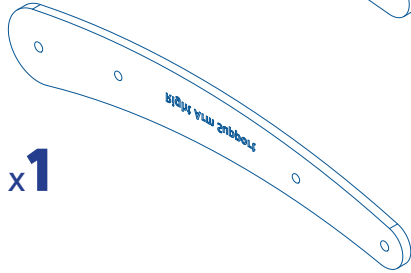
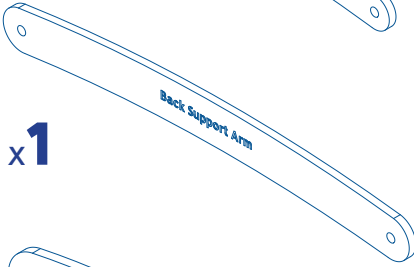
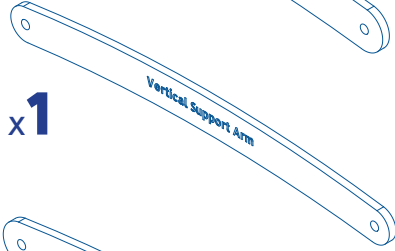
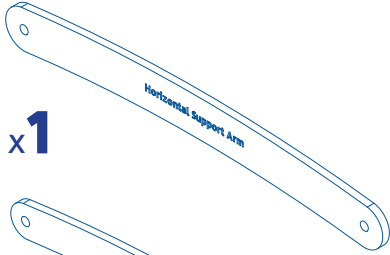


Make sure that all the pieces are inside the box:

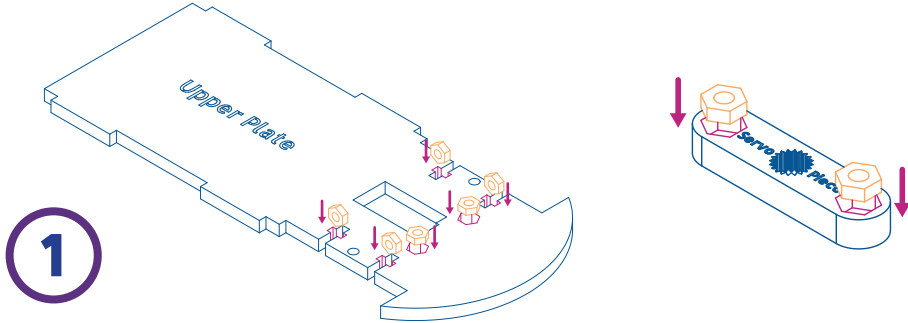


مشروع ذراع الروبوت الخشبية

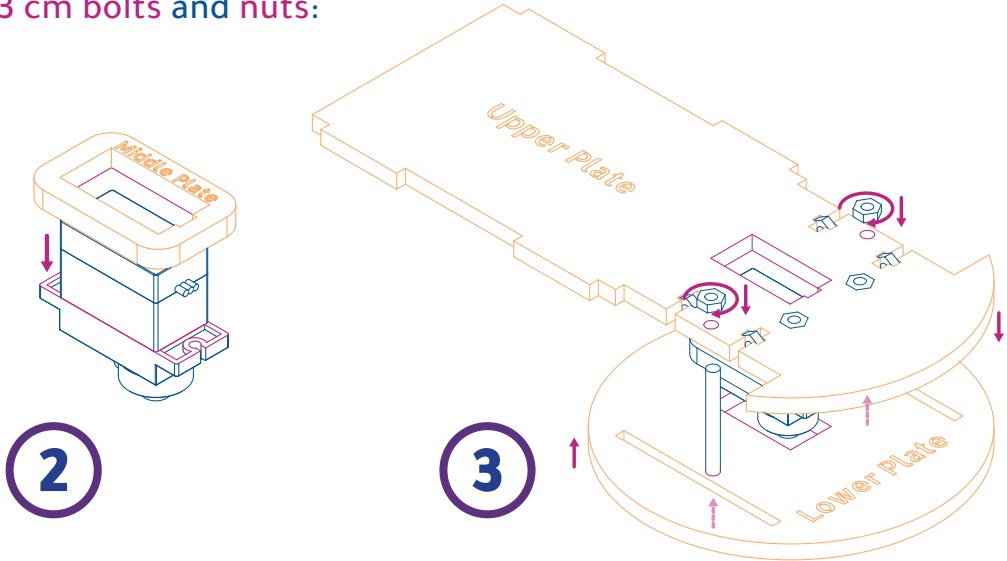
هيا نبدأ رحلتنا إلى الفضاء معاً!



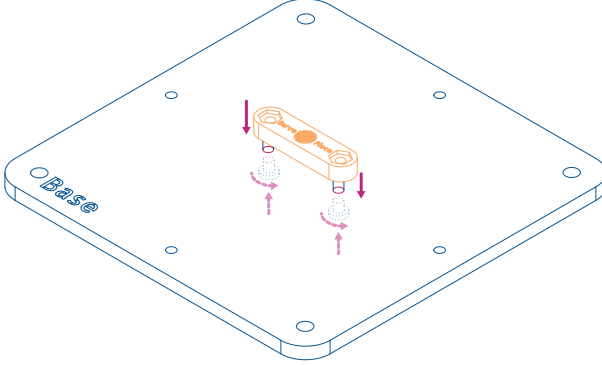
Attach the bolts to their places in the **Servo Piece** (4 pieces) and the **Upper Plate**:



Attach the **Middle Plate** to the **Servo**, then mount the **Upper Plate** and the **Lower Plate** on the **Servo** and secure them with 3 cm bolts and nuts:

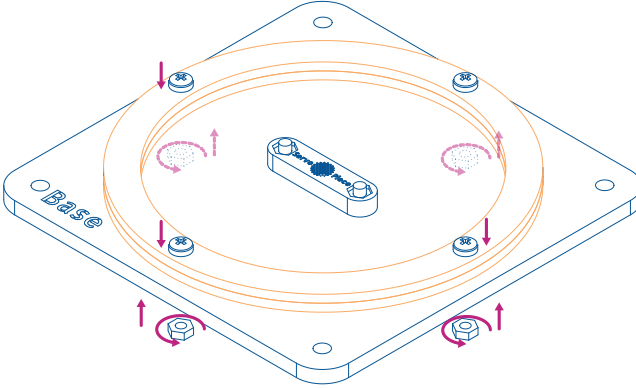


Secure the **Servo Piece** on the **Base** with **1 cm bolts** (nuts should be placed in the servo piece):



4

Secure the **2 Rings** on the **Base** using **1 cm bolts** and **nuts**:



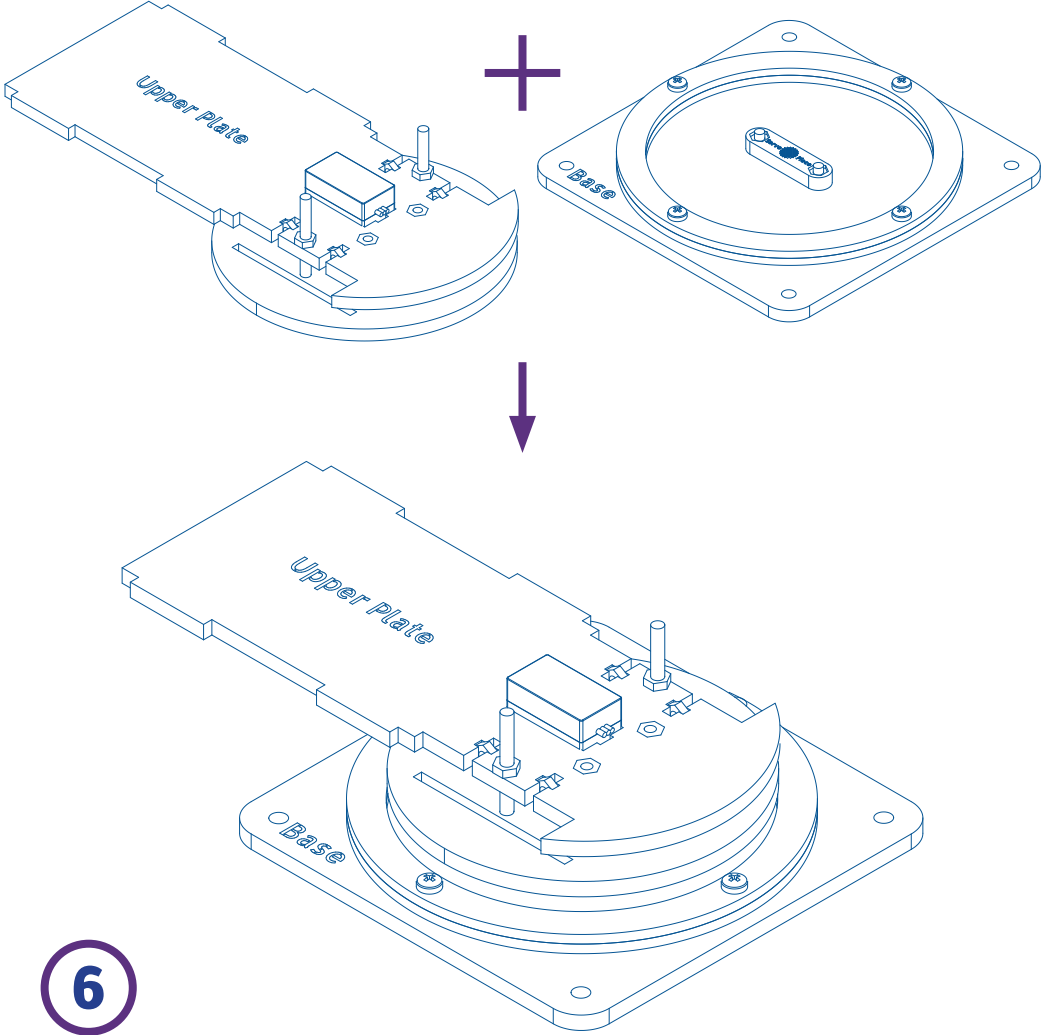
5

مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



Connect the two parts you assembled in the last steps:

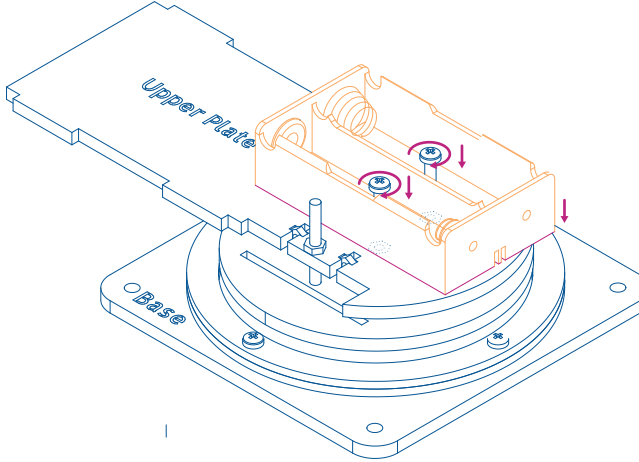


6



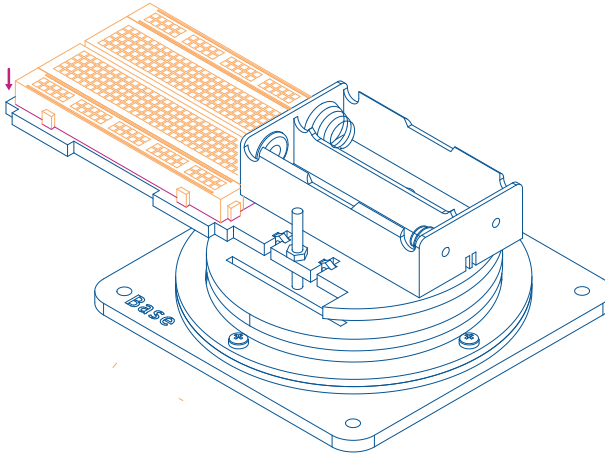
Place the **Battery Holder** on top of the **Servo**, align its holes with the ones in the **Upper Plate**, then secure it with **1 cm bolts**:

7



Remove the double sided tape of the **Breadboard** and secure it on the **Upper Plate**:

8

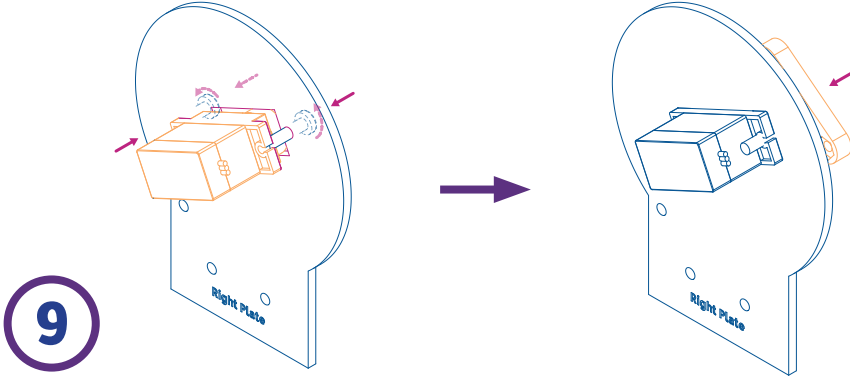


مشروع ذراع الروبوت الخشبية

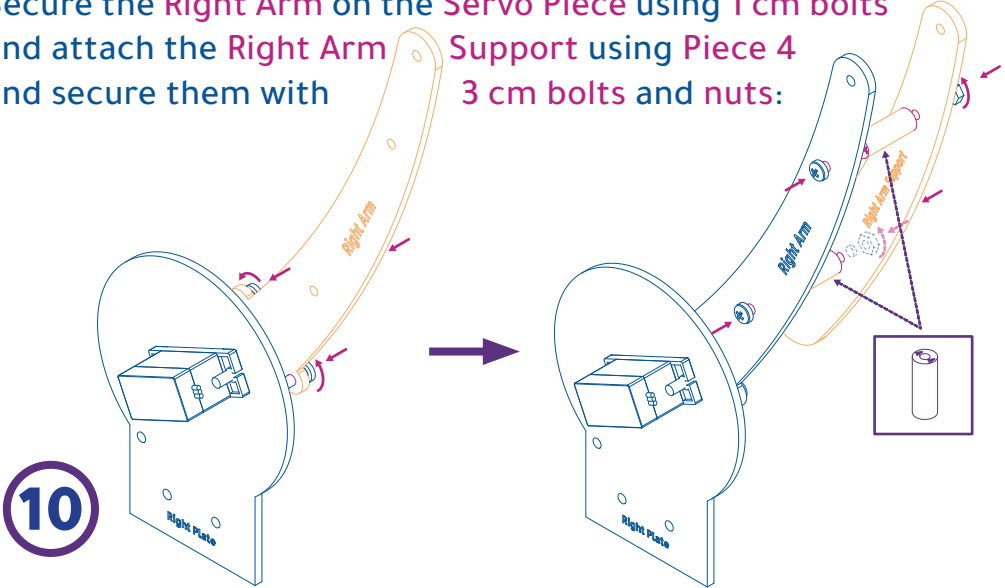
هيا نبدأ رحلتنا إلى الفضاء معاً!



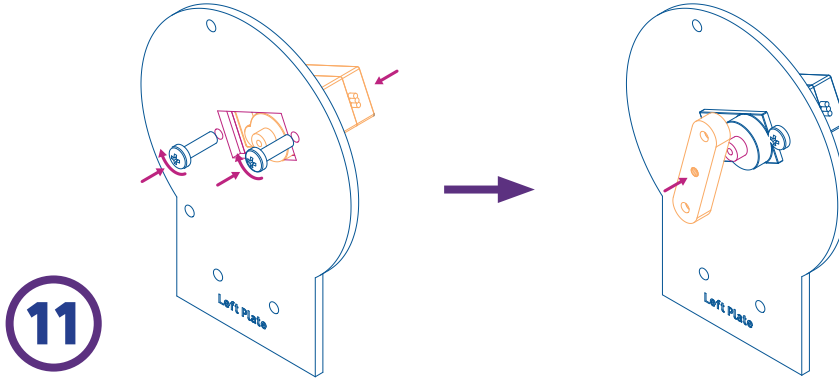
Secure the **Servo** on the **Right Plate** using 1 cm bolts (You don't need to use nuts) and attach the **Servo Piece**:



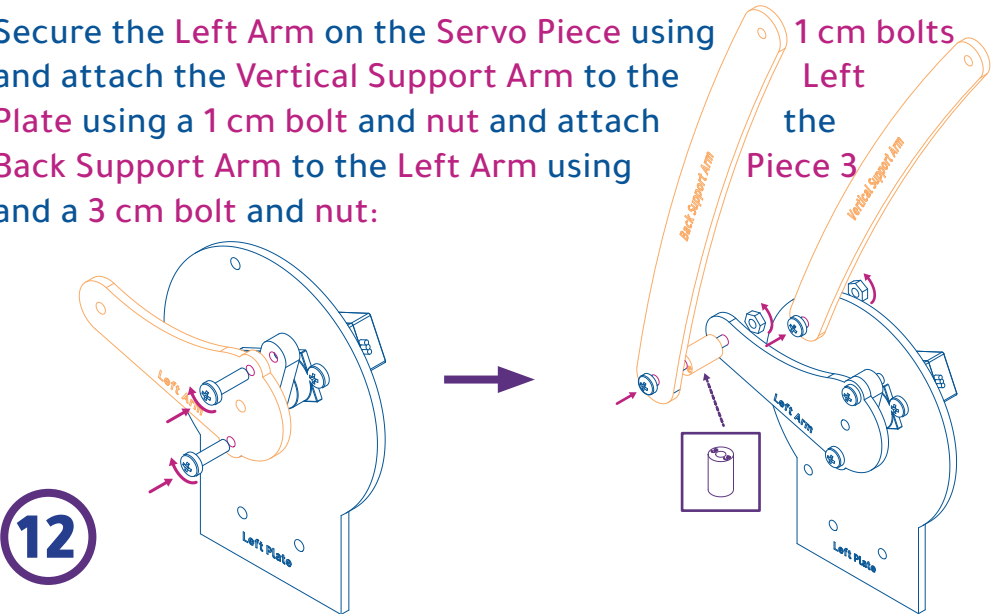
Secure the **Right Arm** on the **Servo Piece** using 1 cm bolts and attach the **Right Arm Support** using **Piece 4** and secure them with 3 cm bolts and nuts:



Secure the **Servo** on the **Left Plate** using **1 cm bolts** (You don't need to use nuts) and attach the **Servo Piece**:



Secure the **Left Arm** on the **Servo Piece** using **1 cm bolts** and attach the **Vertical Support Arm** to the **Plate** using a **1 cm bolt** and nut and attach the **Back Support Arm** to the **Left Arm** using a **3 cm bolt** and nut:

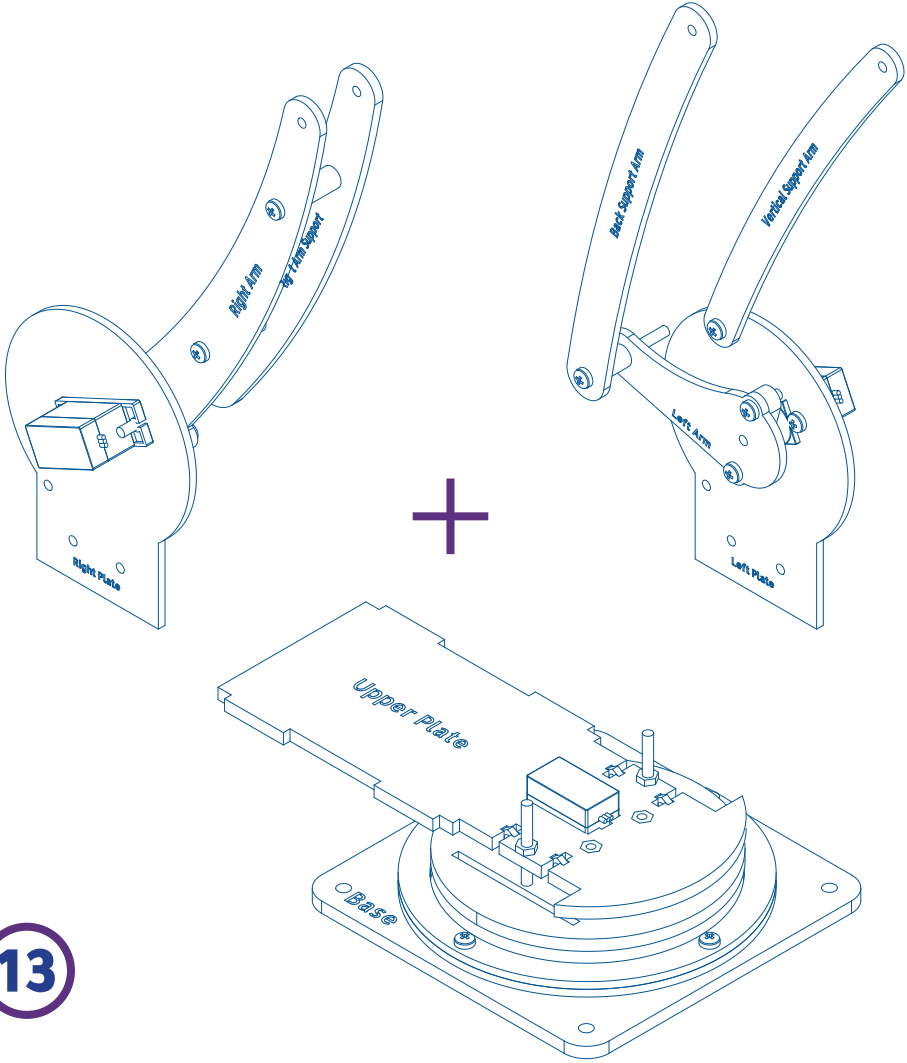


مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



Connect the two side parts with the assembled base in the slots in the **Lower Plate** as follows:

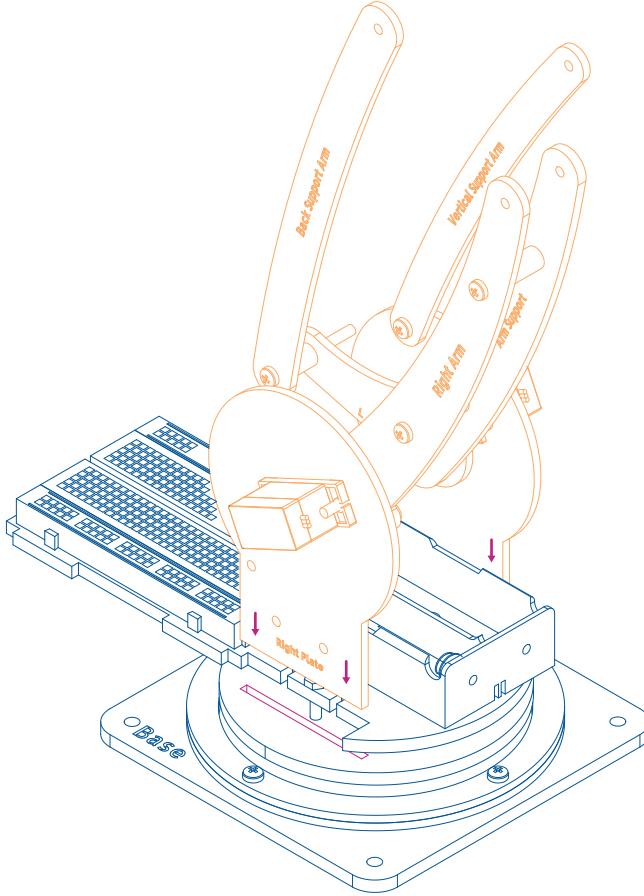


13



مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



14

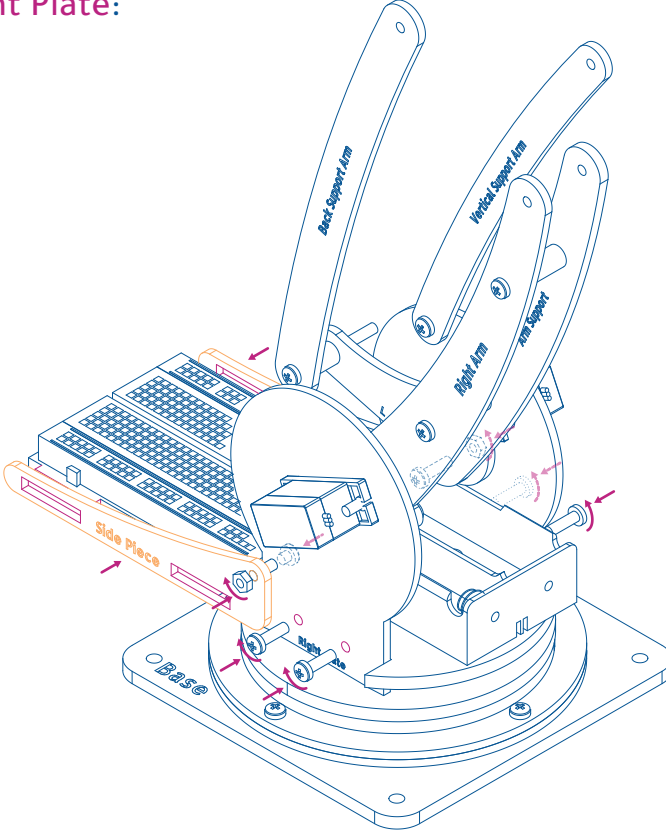


مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



Secure the **Right Plate** and the **Left Plate** further by using **1 cm bolts** through the **nuts** in the t-slots* in the **Upper Plate**, Attach the **2 Side Piece** to the **Upper Plate** via the slots and secure them with **1 cm bolts** and **nuts** on the **Left Plate** and the **Right Plate**:

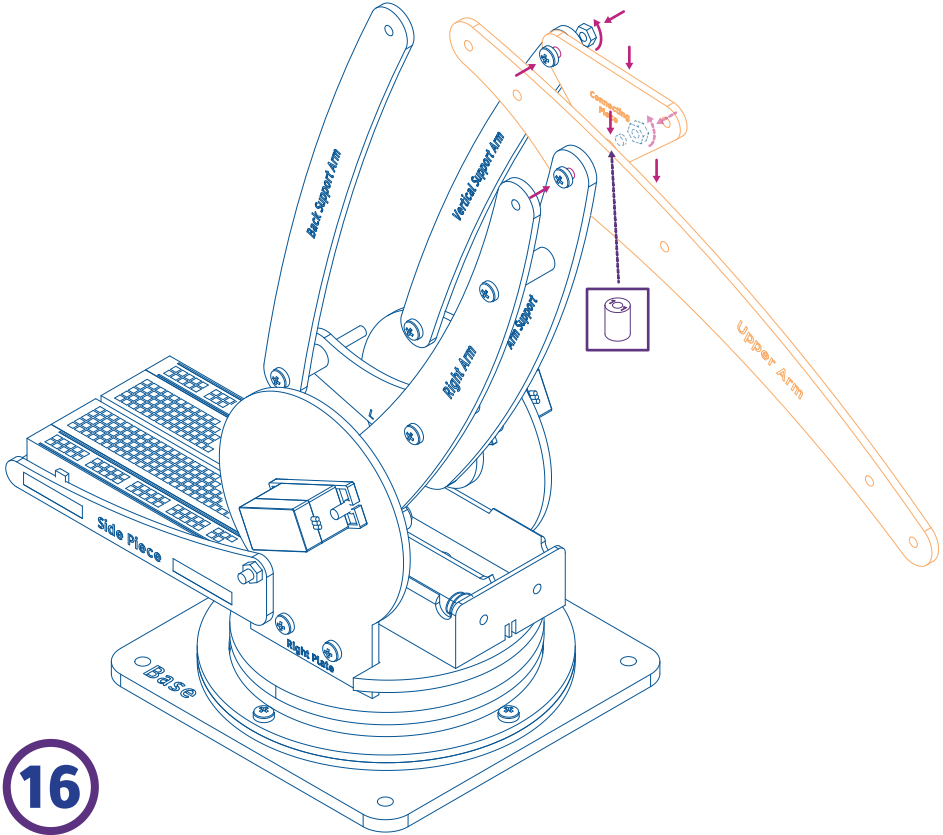


15

t-slots: Slots with the shape of a T, it consists of a slot for bolts to pass through to a nut securely placed in the slot.

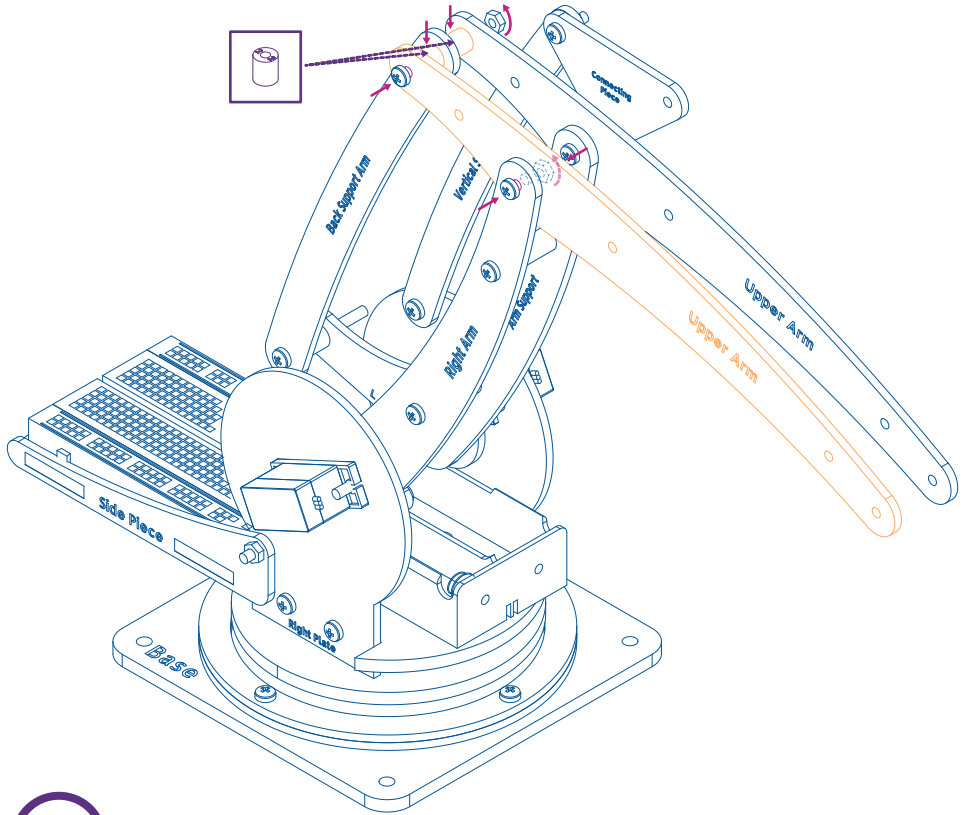


Attach the Connecting Piece to the Vertical Support Arm using 1 cm bolt and nut and the Upper Arm to the Right Arm Support and then connect them together with Piece 1 and a 3 cm bolt and nut:



Don't Forget to Ask For Help From an Adult!

Attach the other **Upper Arm** on the **Right Arm** using a 1 cm bolt and nut, then align it with the other **Upper Arm** and the **Back Support Arm** and connect all 3 using **Piece 2** and a 3 cm bolt and nut:



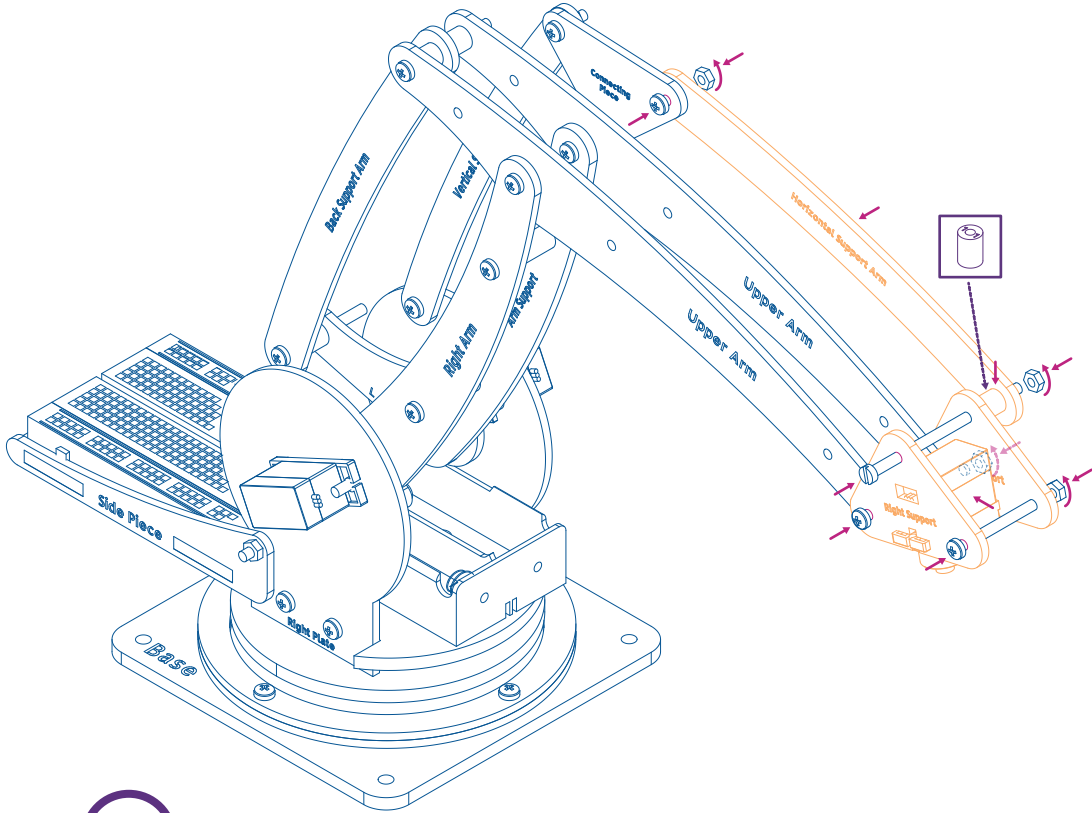
17

مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



Attach the **Horizontal Support Arm** on the **Connecting Piece** using a **1 cm bolt and nut**, then bring the last **Servo** and connect it to the **Right Support** and **Left Support** via the slots and connect them all using **3 cm bolts and nuts** and **Piece 1**:



18

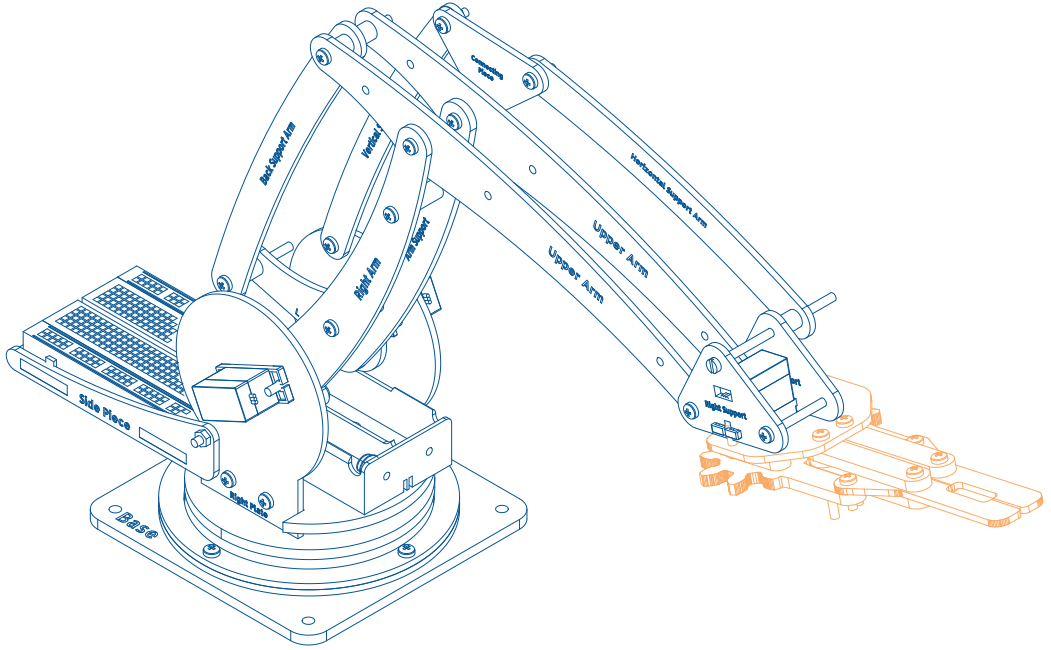


مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



Last step, attach the Claw* to the Servo:



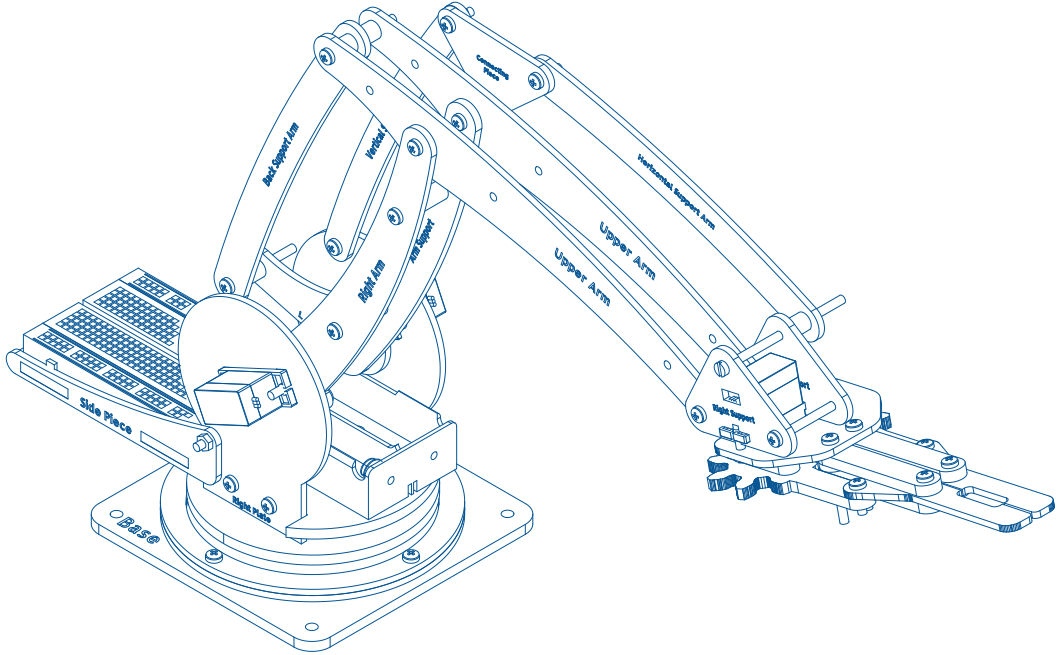
19

The claw is assembled on your own as an assessment, try to figure it out your self!



مشروع ذراع الروبوت الخشبية

هيا نبدأ رحلتنا إلى الفضاء معاً!



Good Job!

Now you can move to assembling the electronic circuit on the Breadboard and start righting the Code!





Wooden Arm Robot Booklet

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