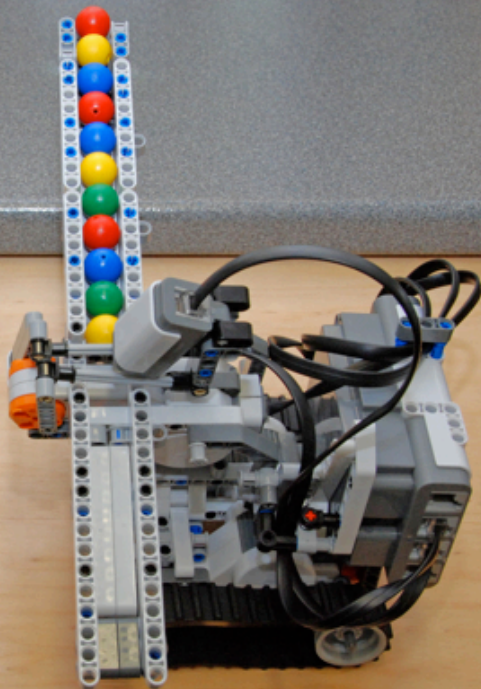
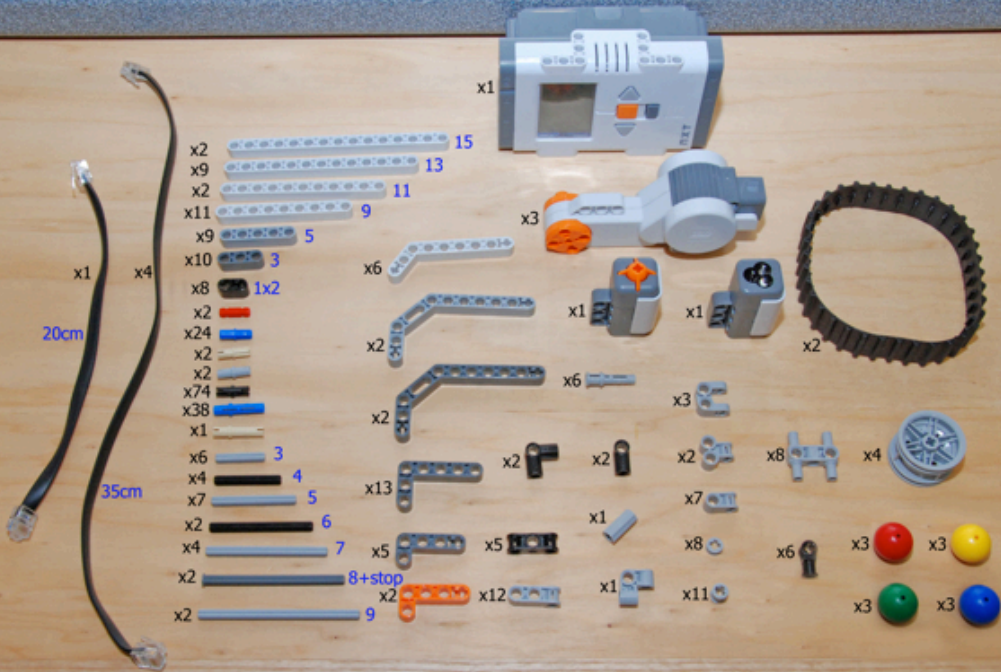


**Colour Sorter Robot 4  
using parts from NXT2 8547 set**

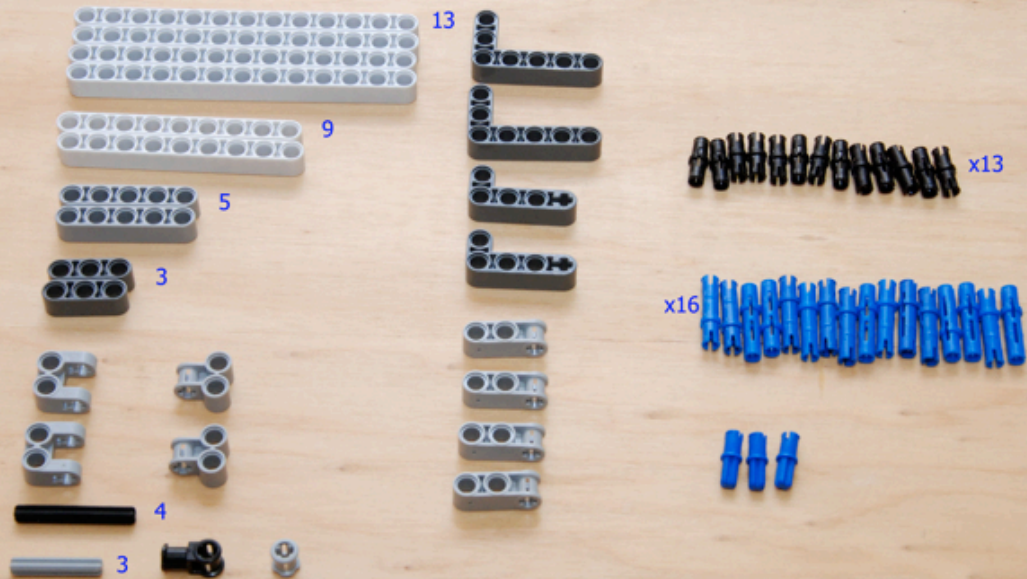


# Parts List for Colour Sorter 4

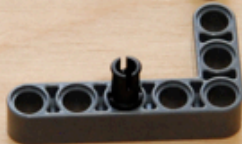
All from 8547 NXT2 set



Section 1

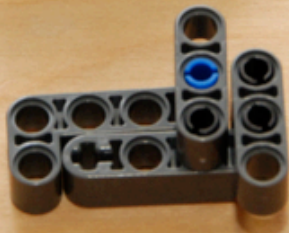




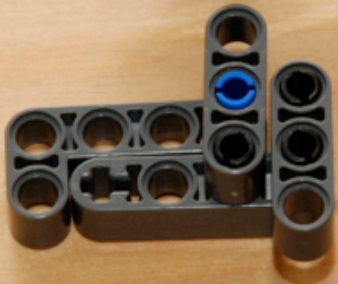


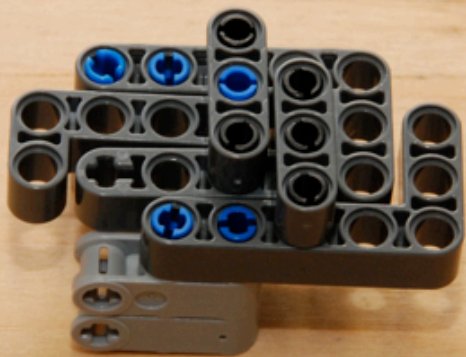


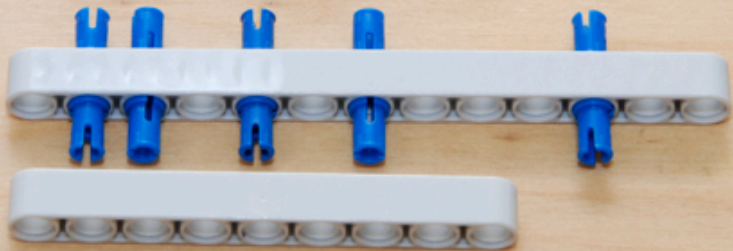
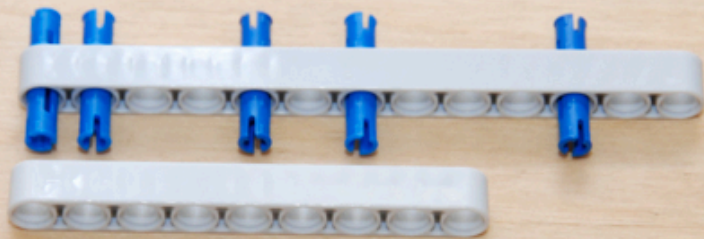


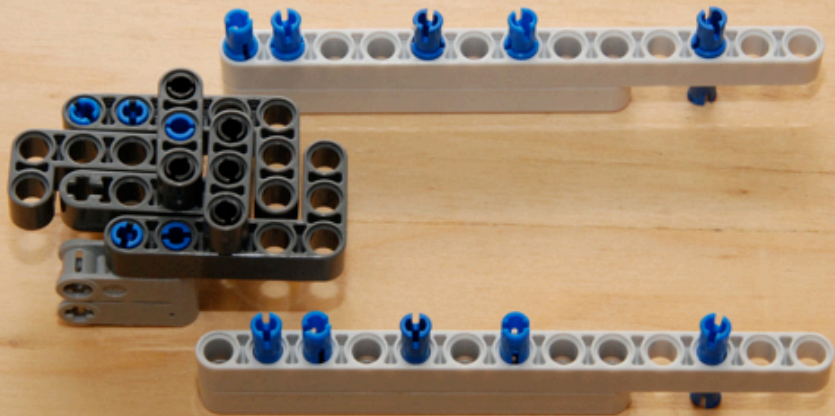


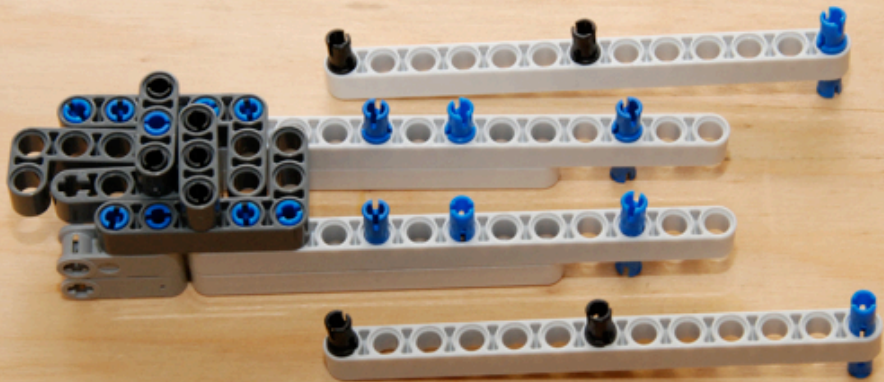


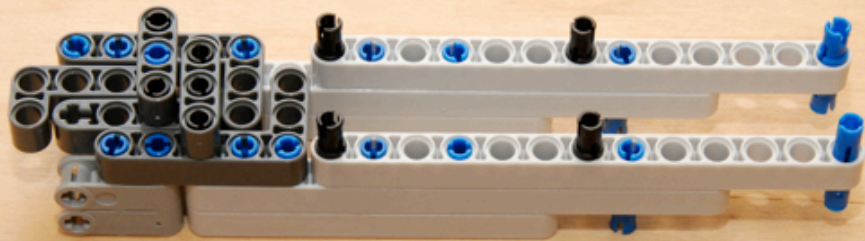


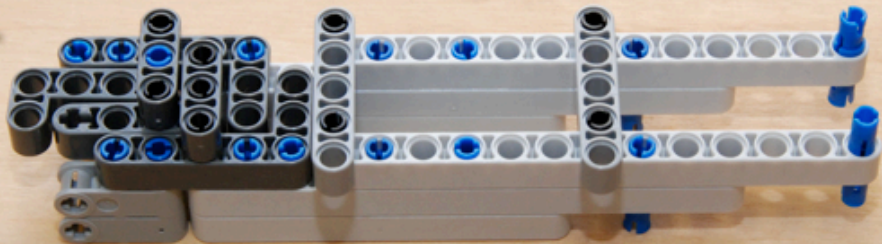


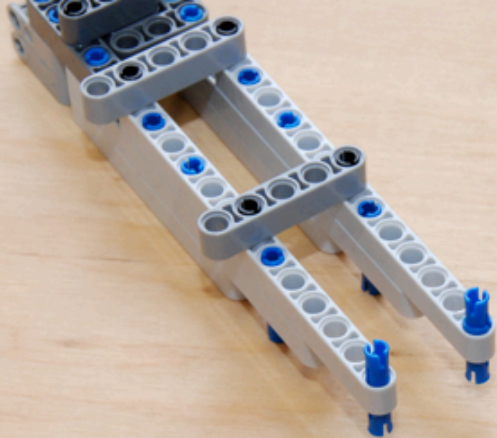






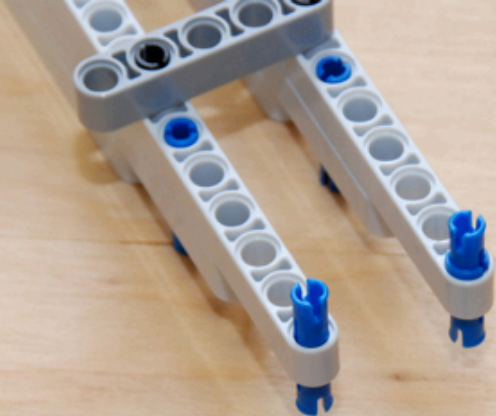


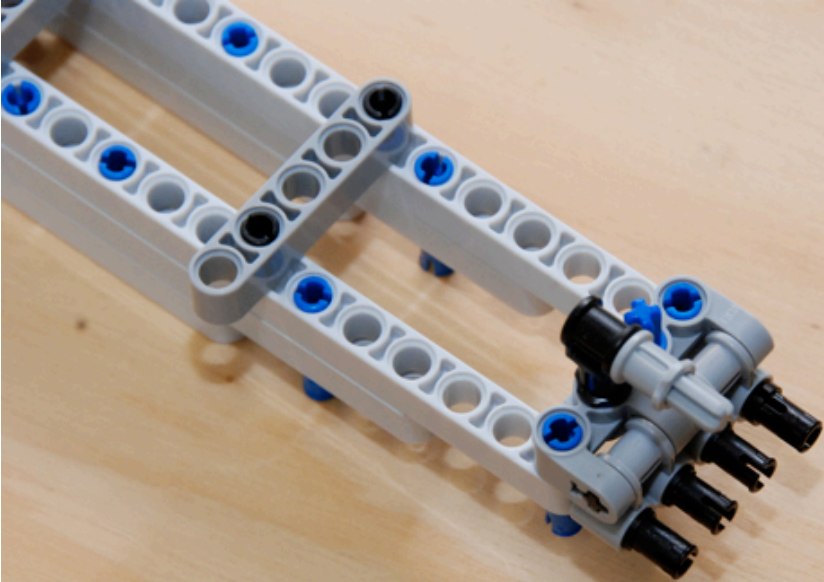












Section 2



5





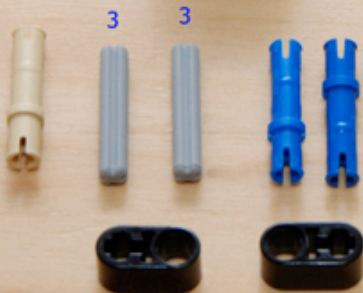




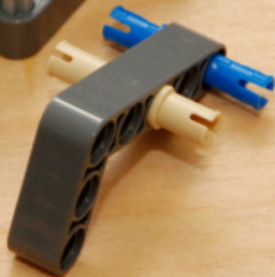




Section 3

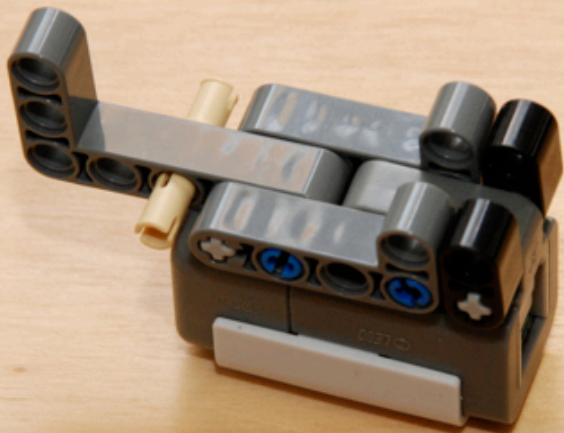




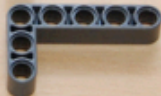






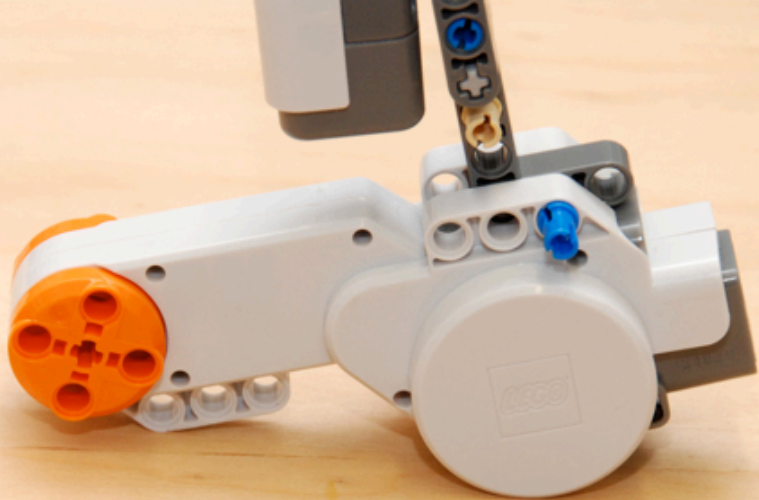


Section 4



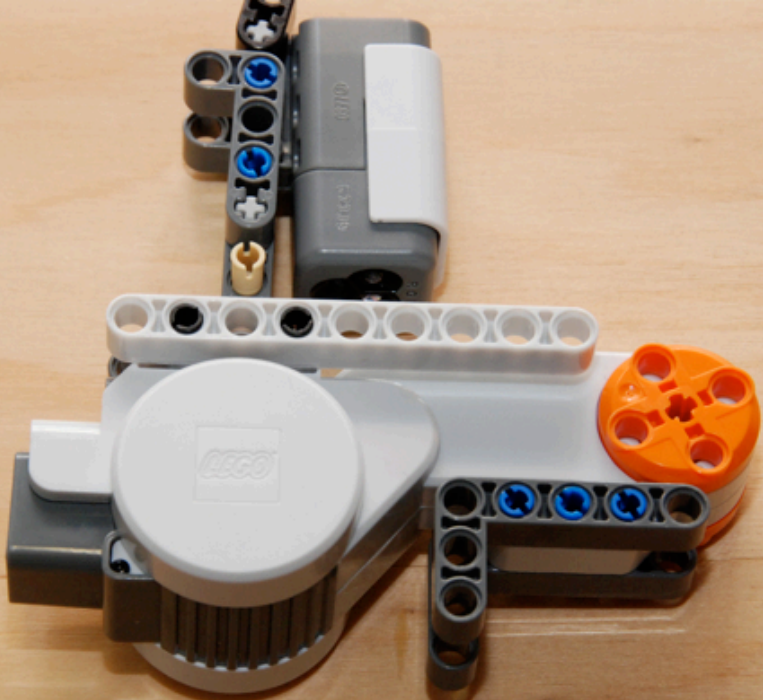




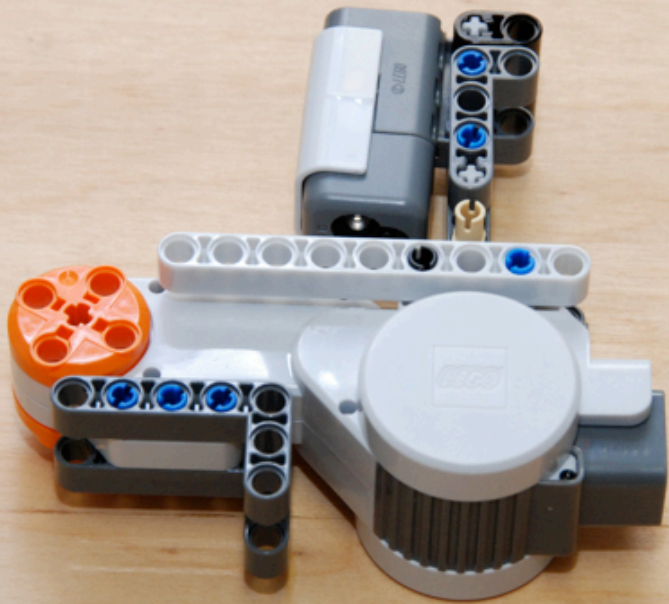




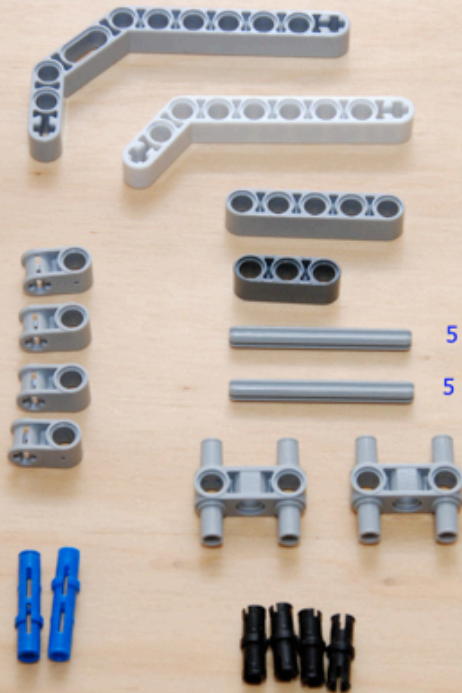






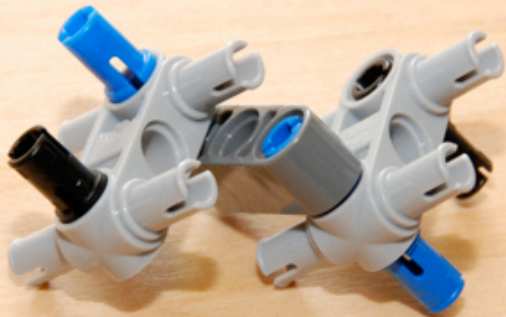


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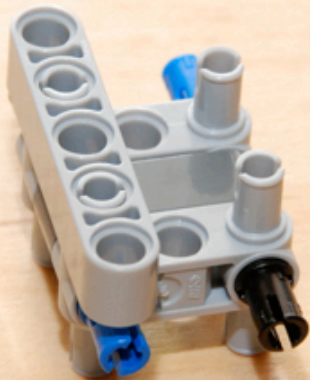


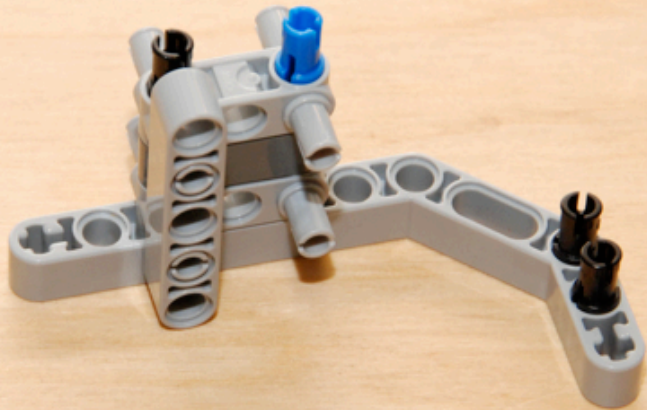


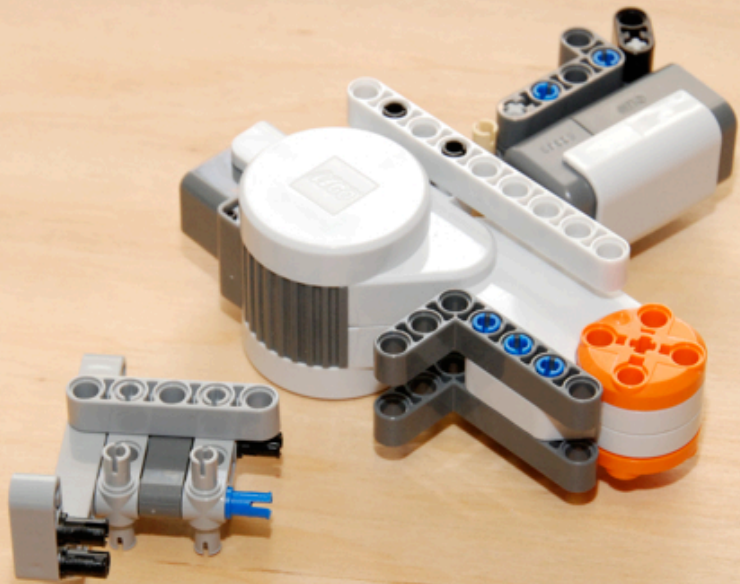


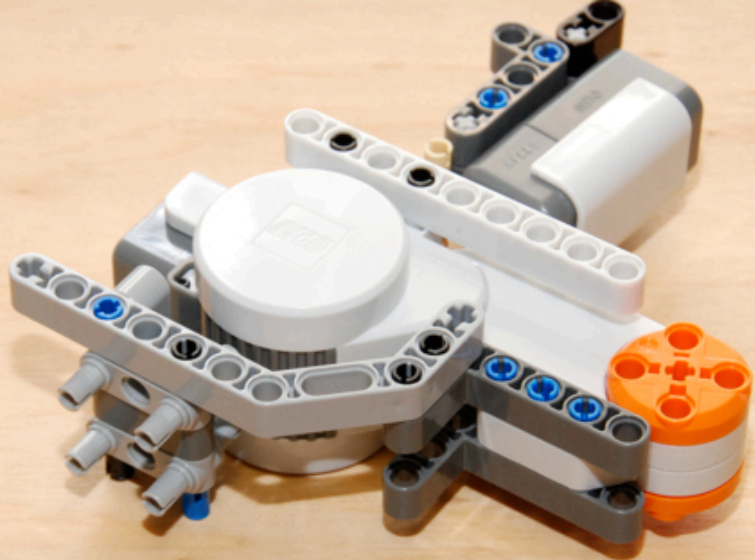


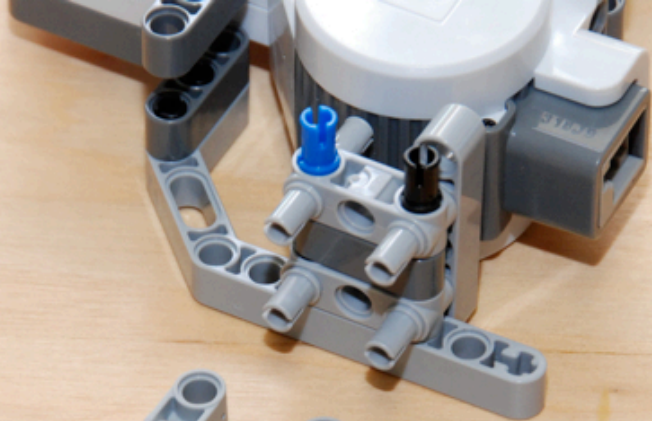


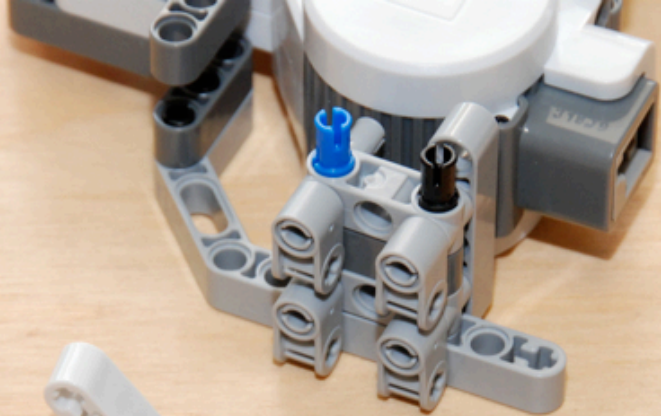




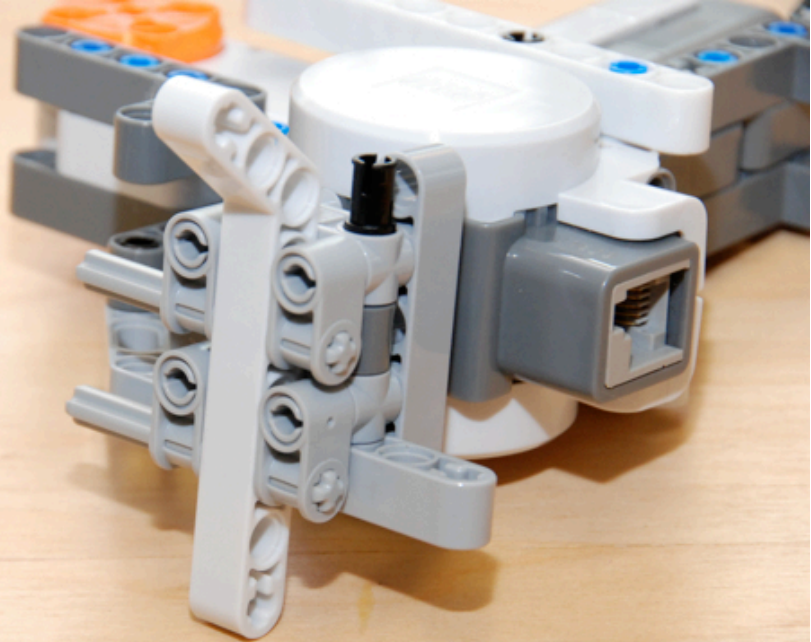




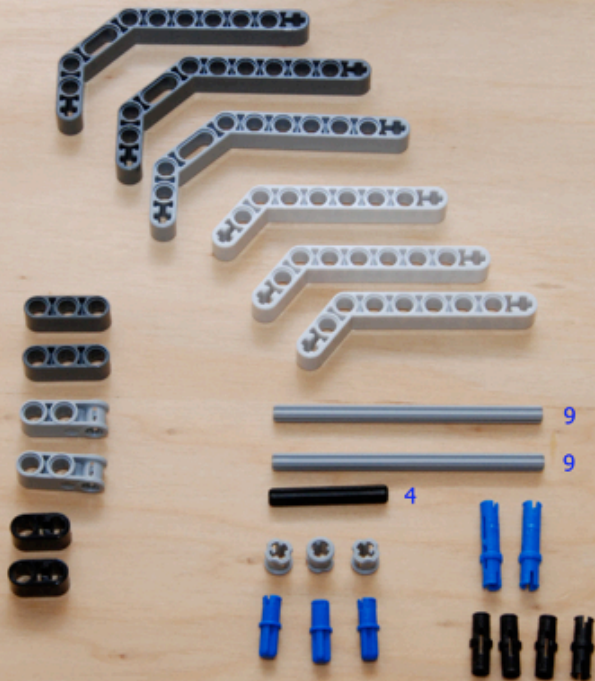






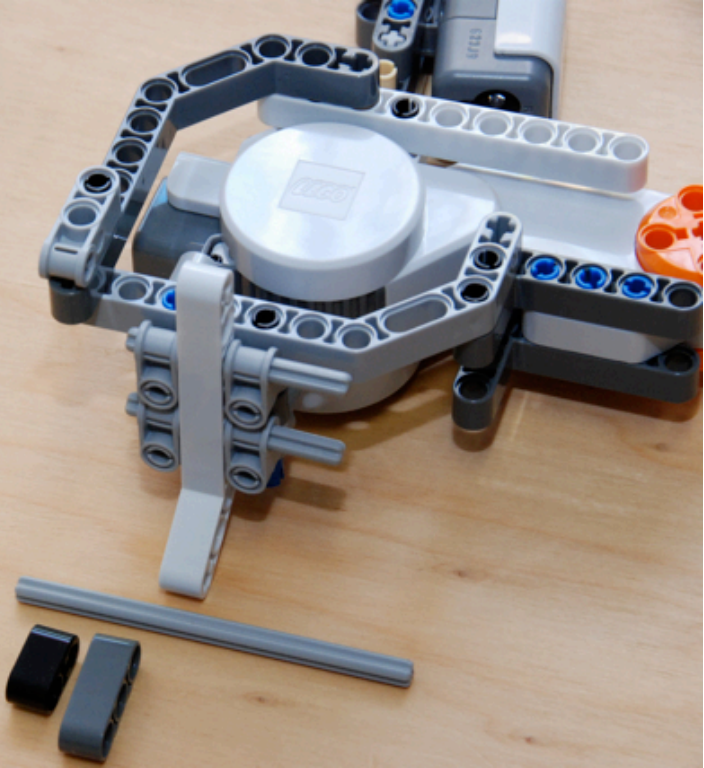


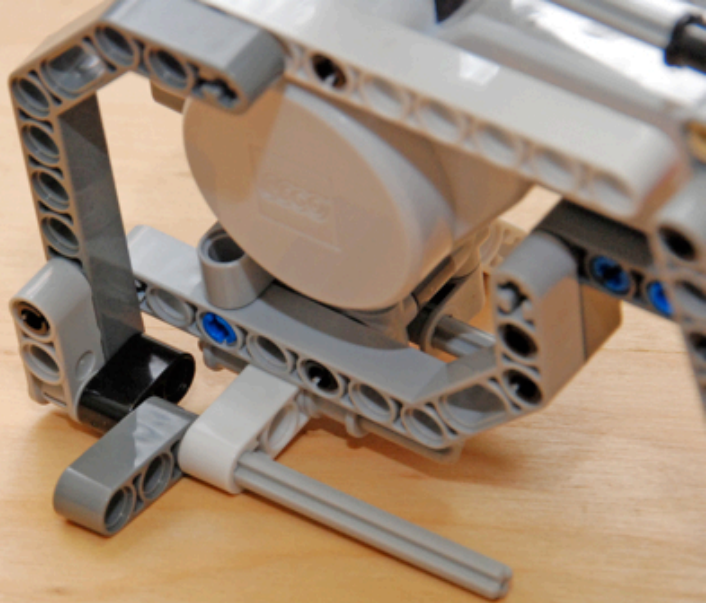
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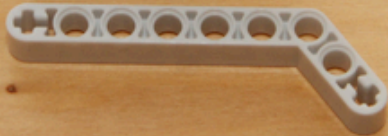
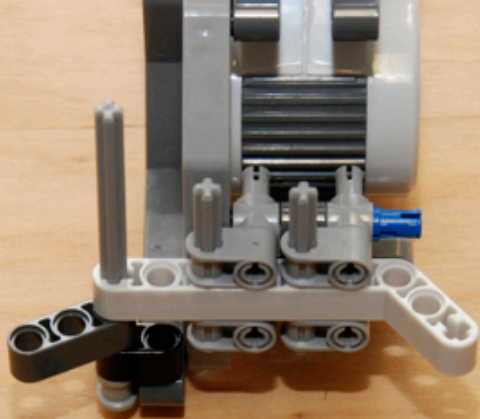


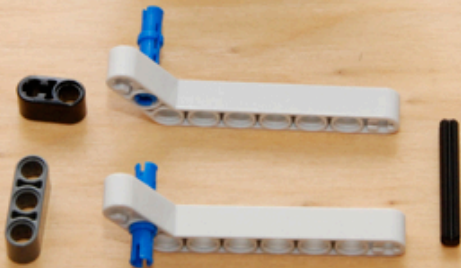
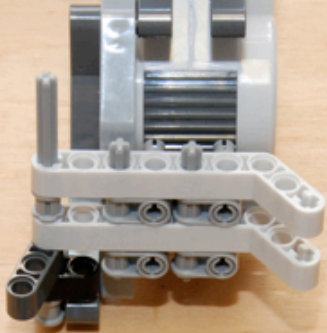




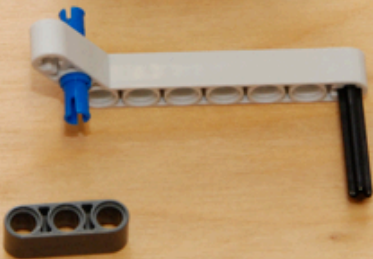
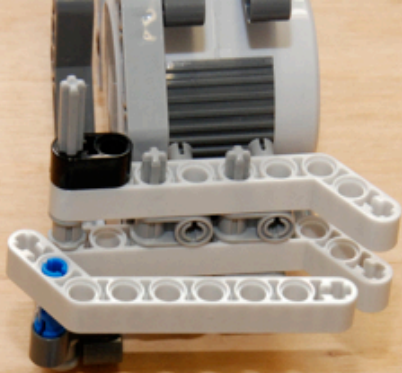


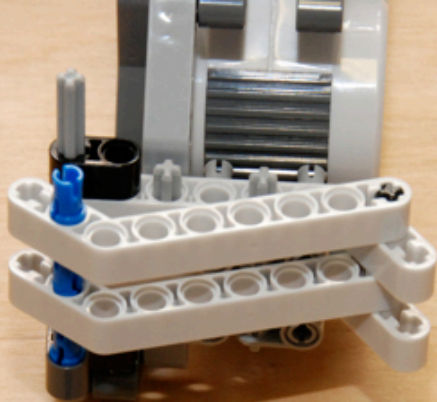


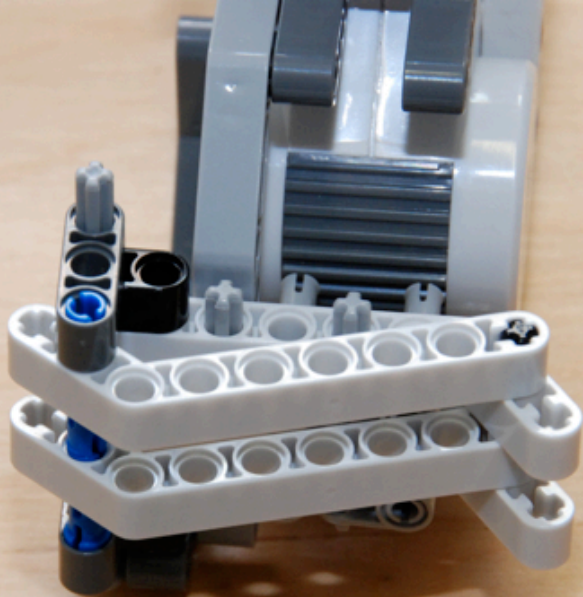




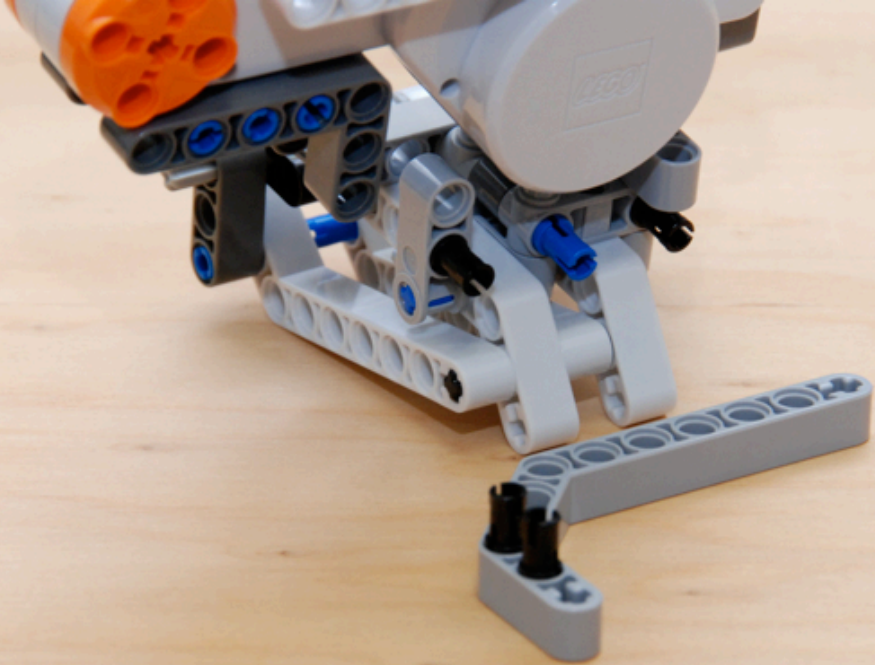


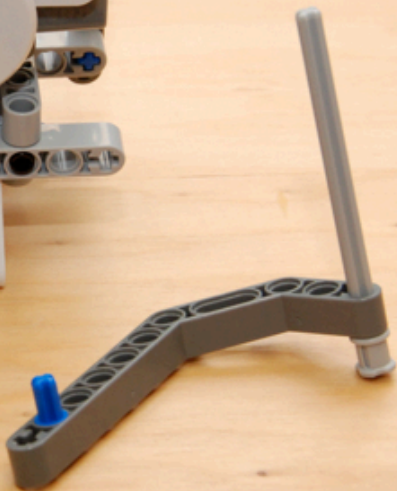
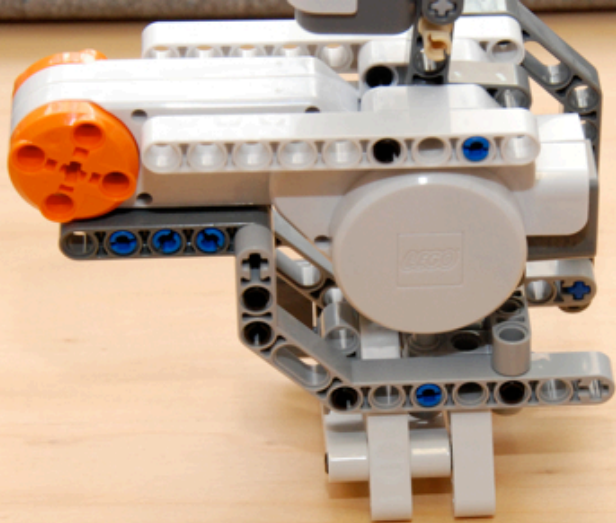


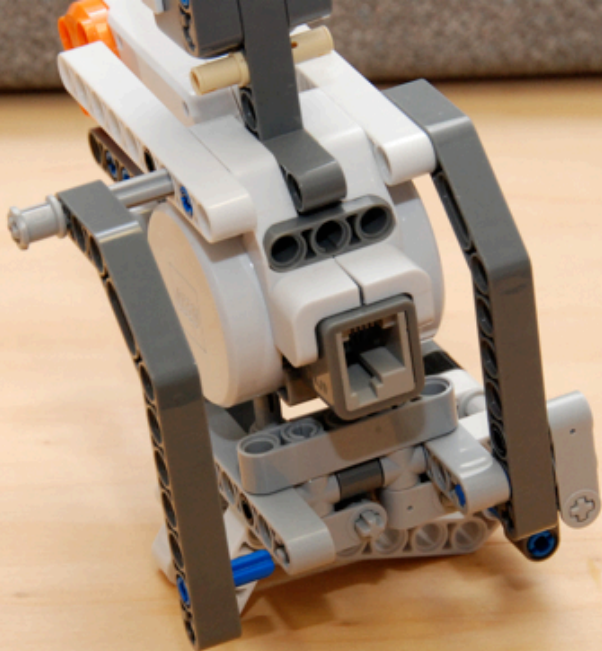


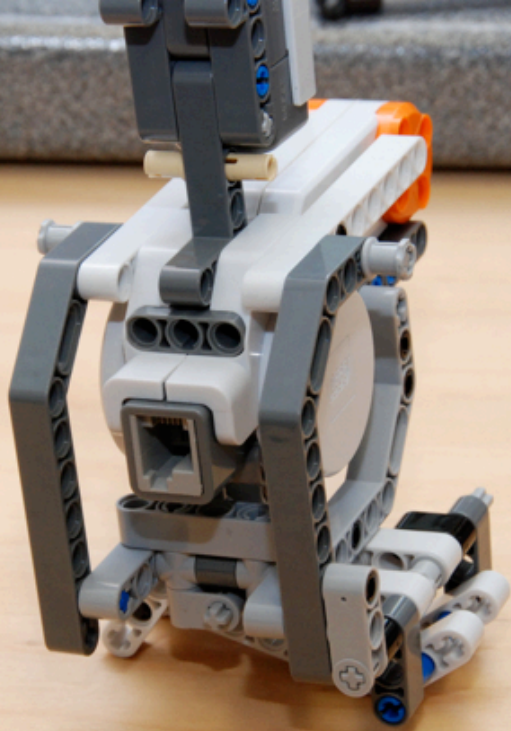












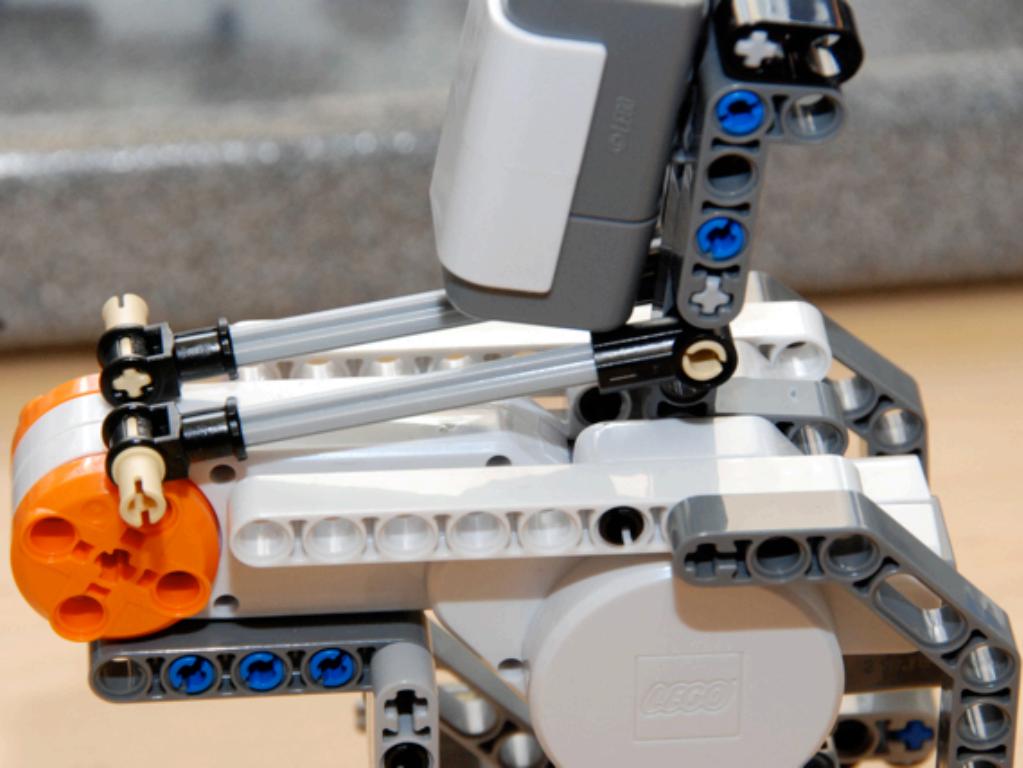


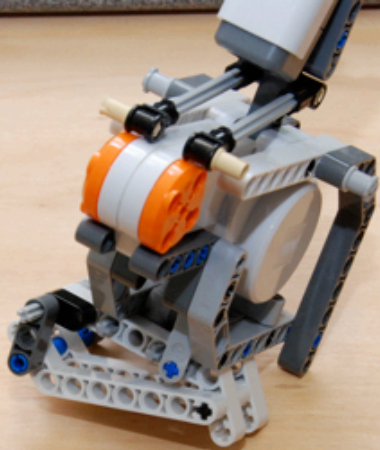
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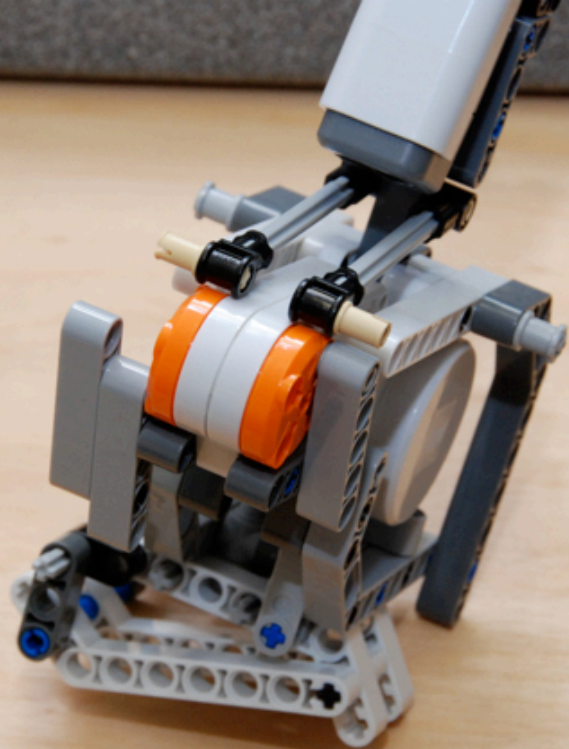




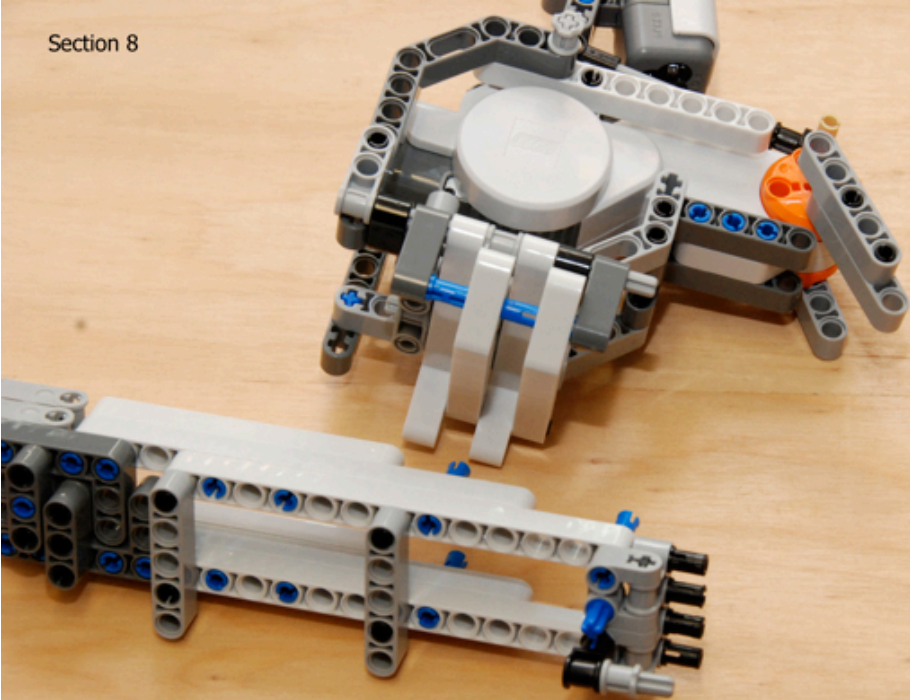




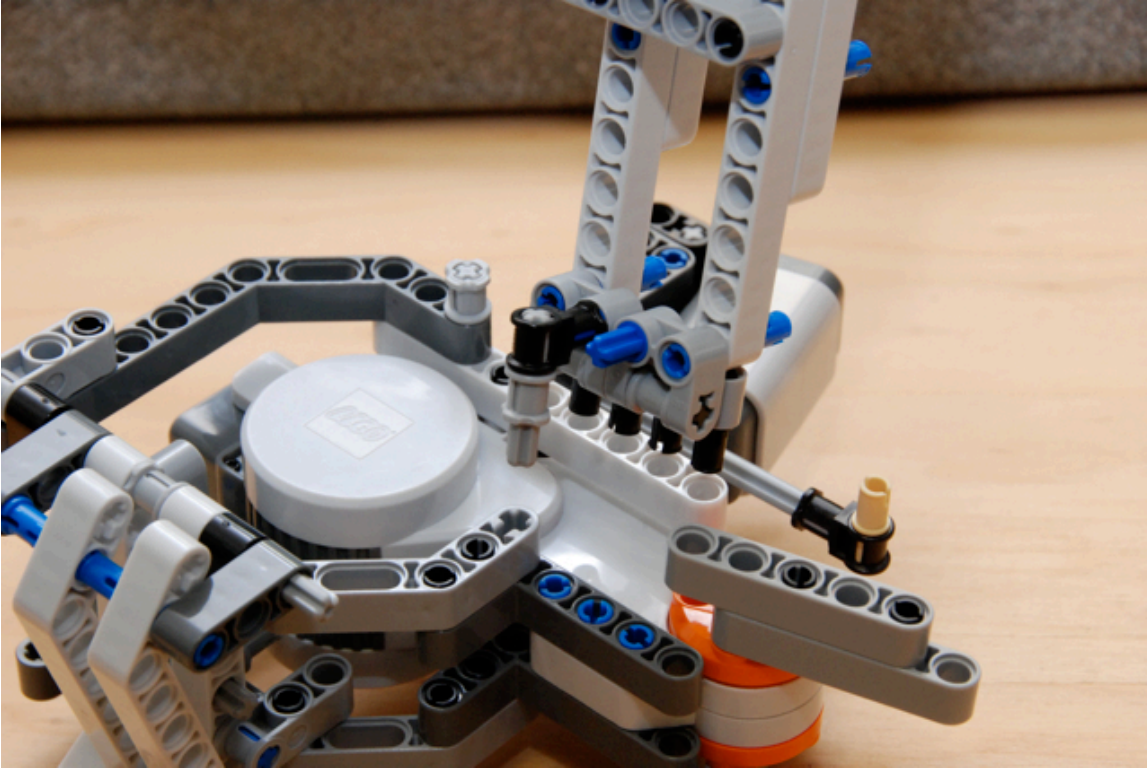


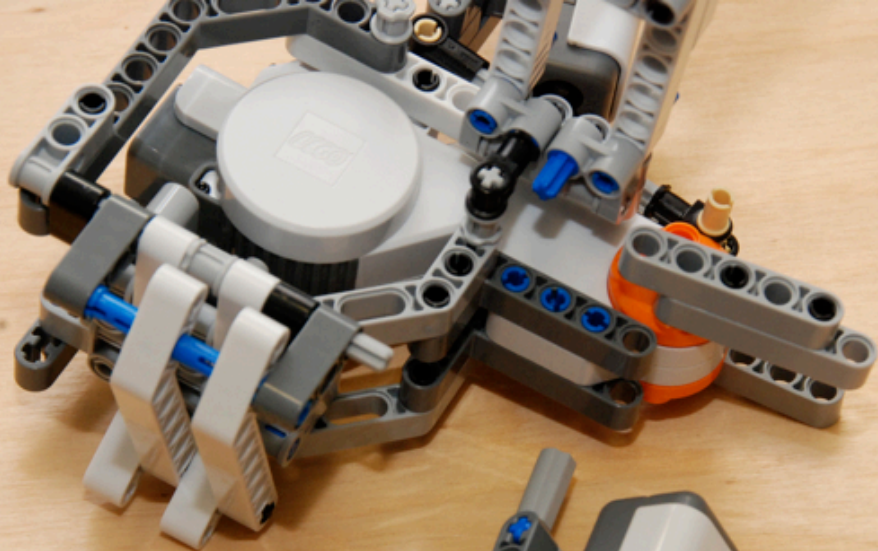


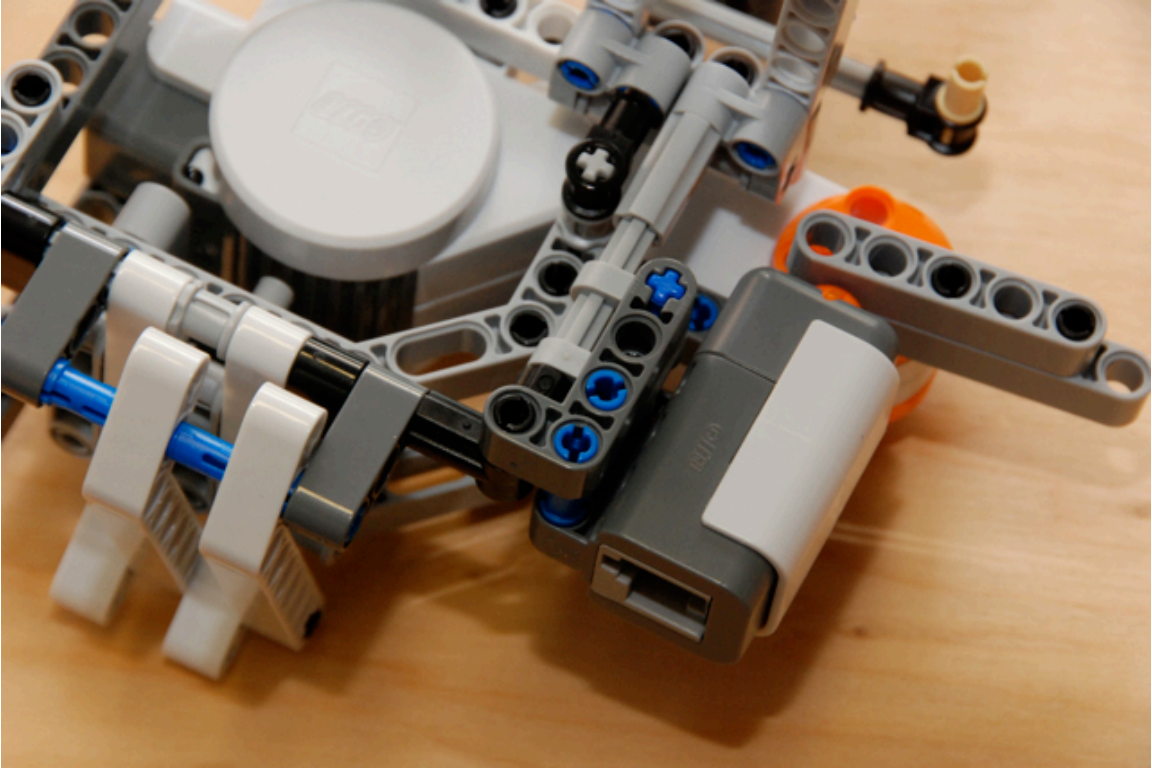
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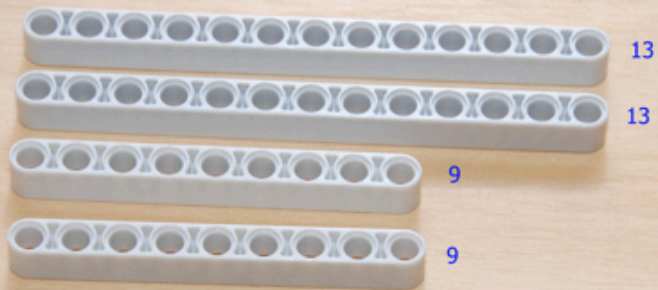




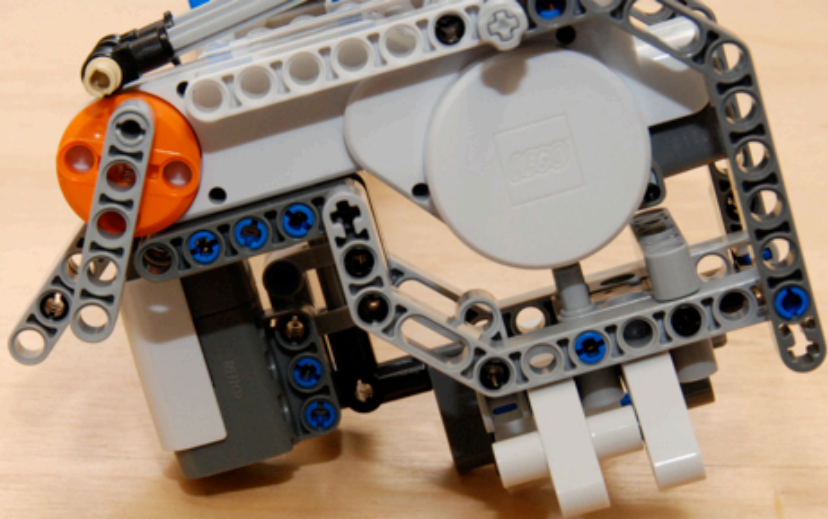


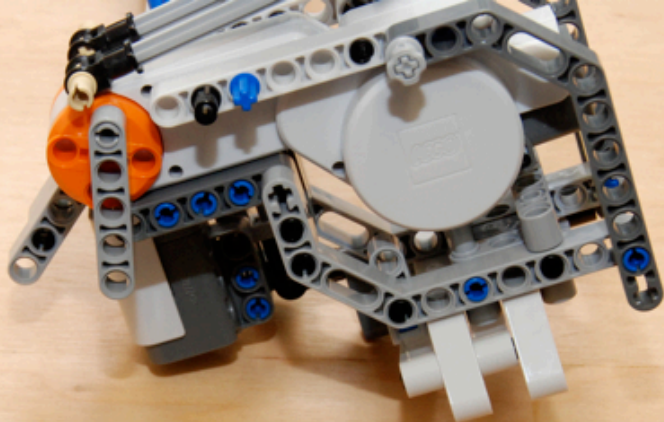


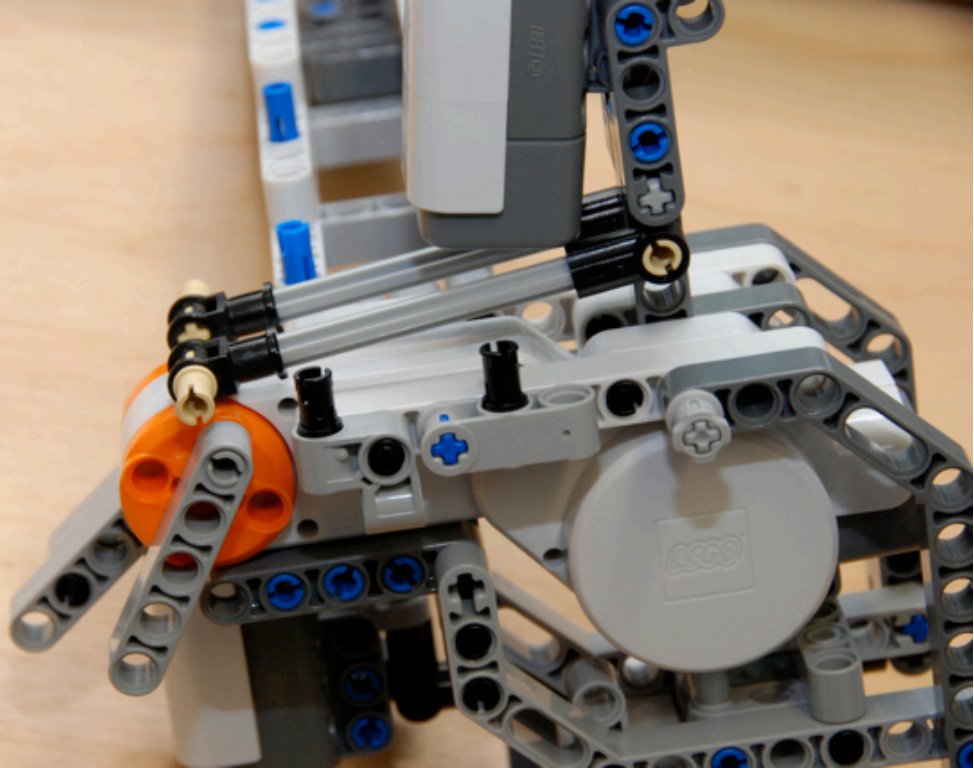
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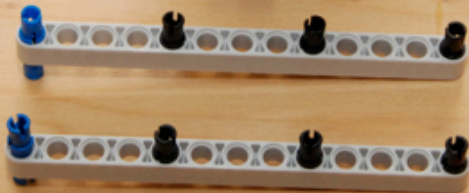
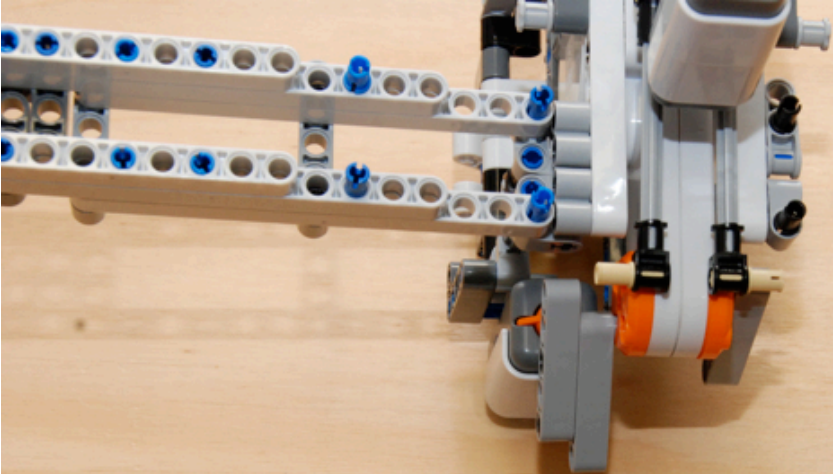


x9

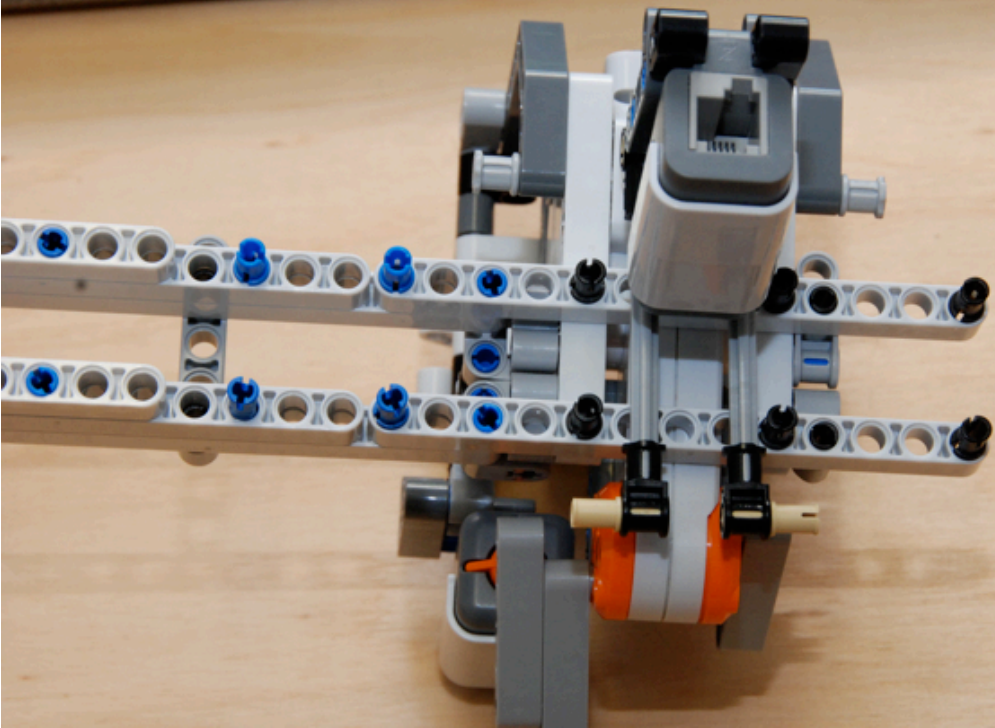


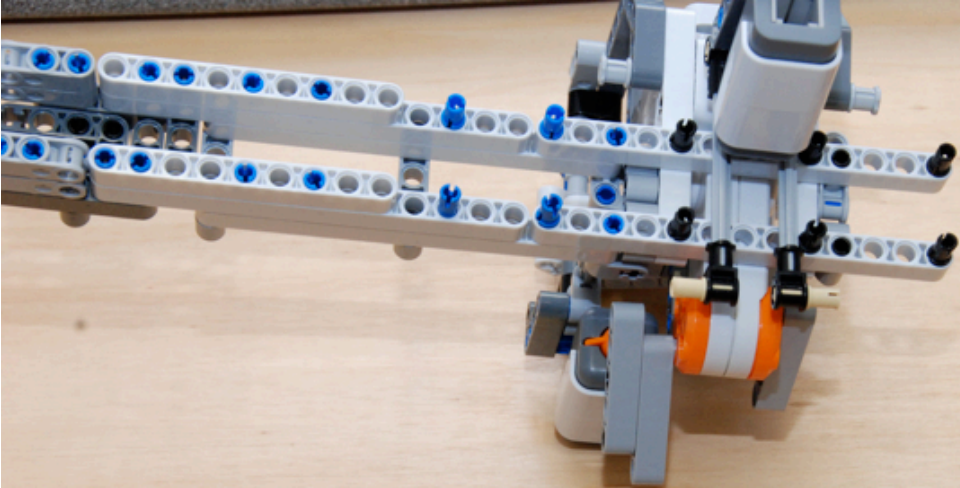


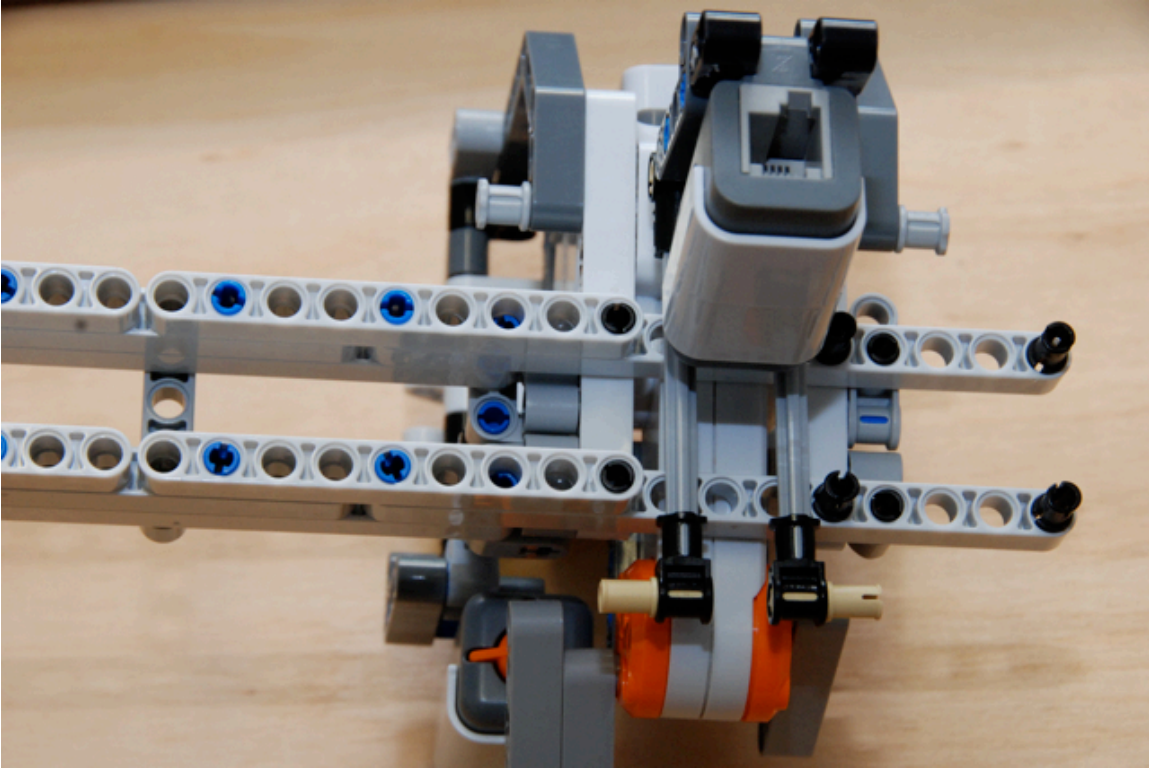


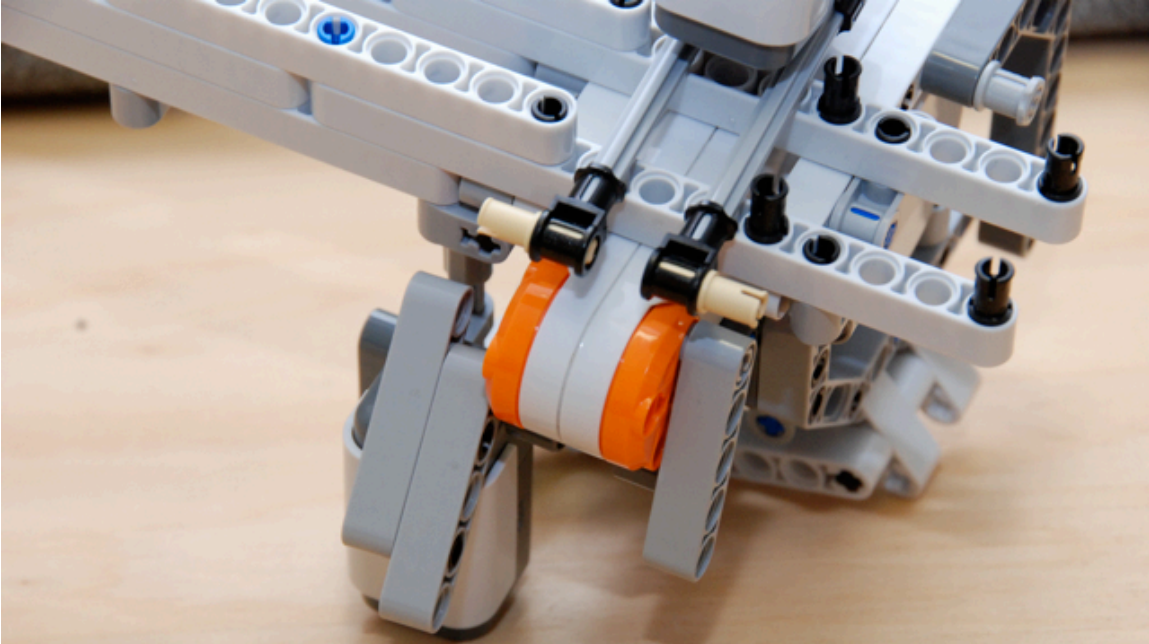


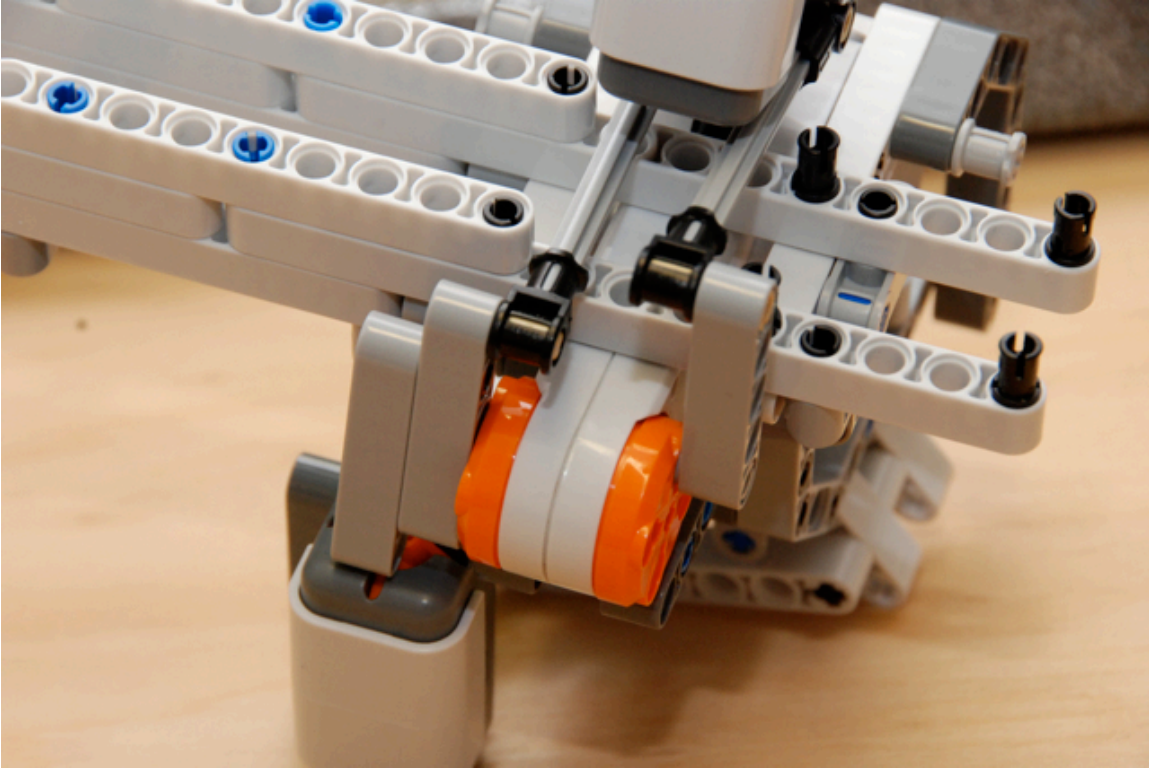




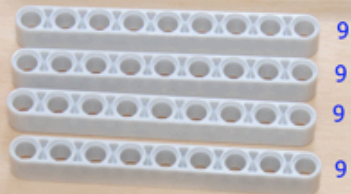
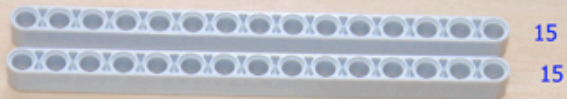


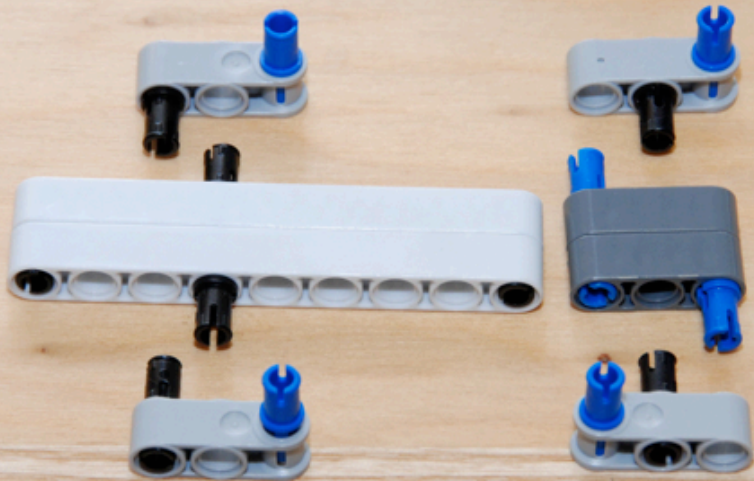


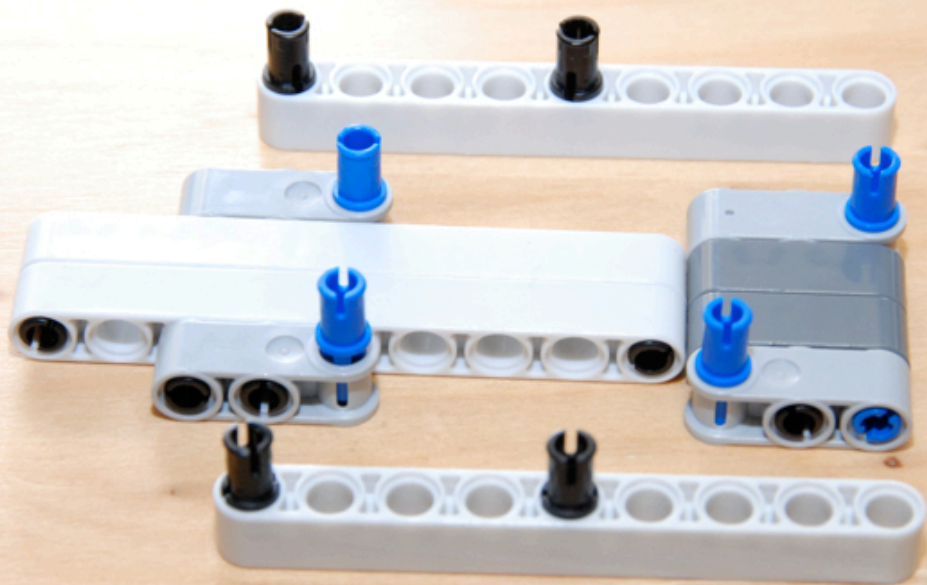




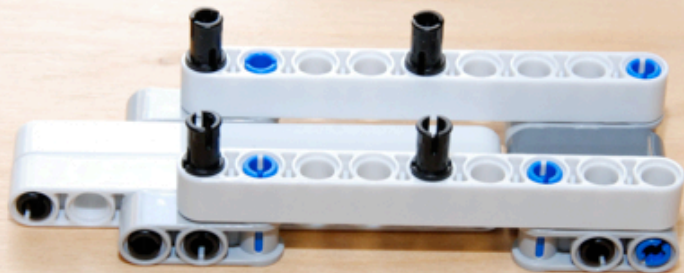
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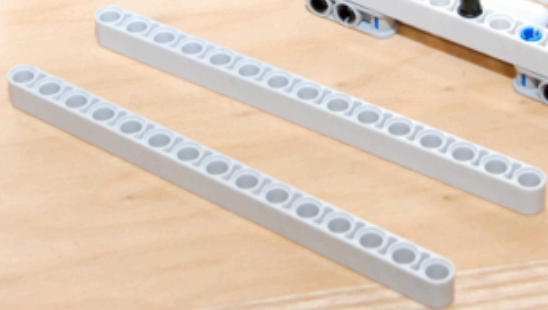
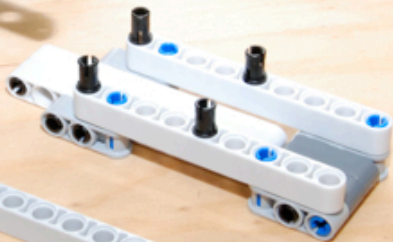
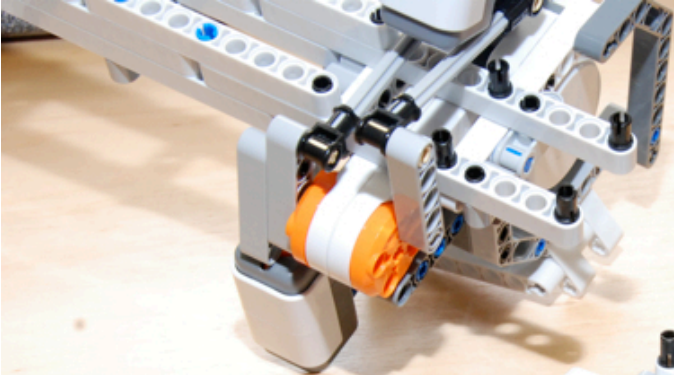


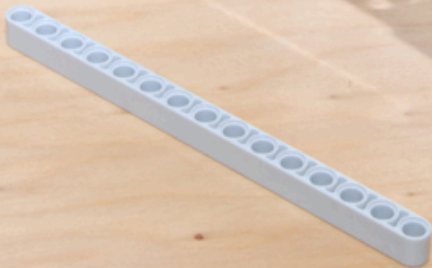
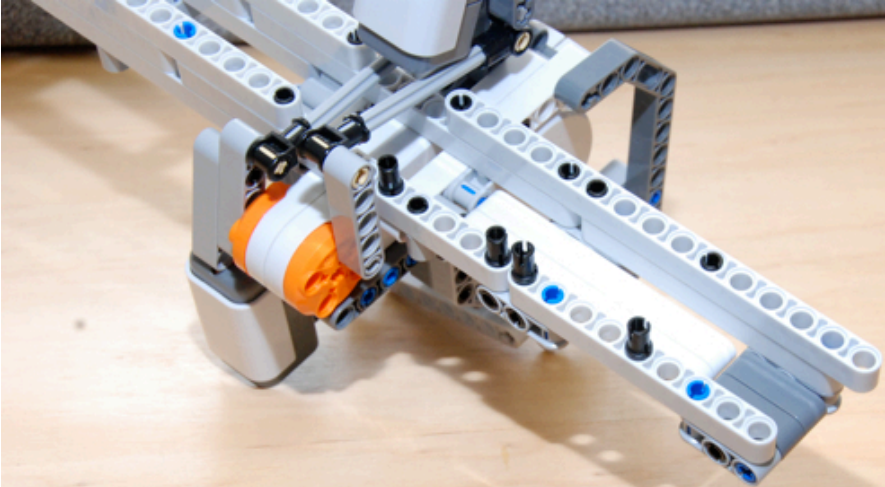


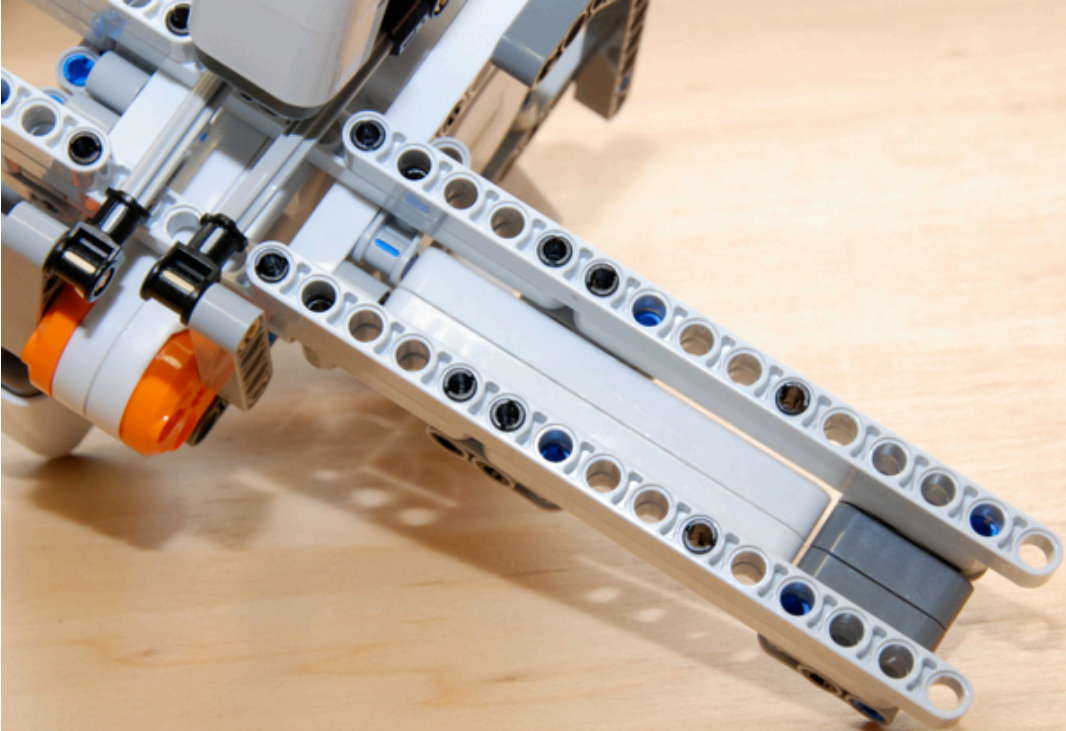








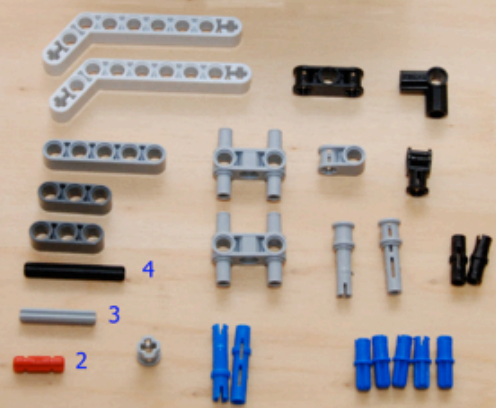




Section 11

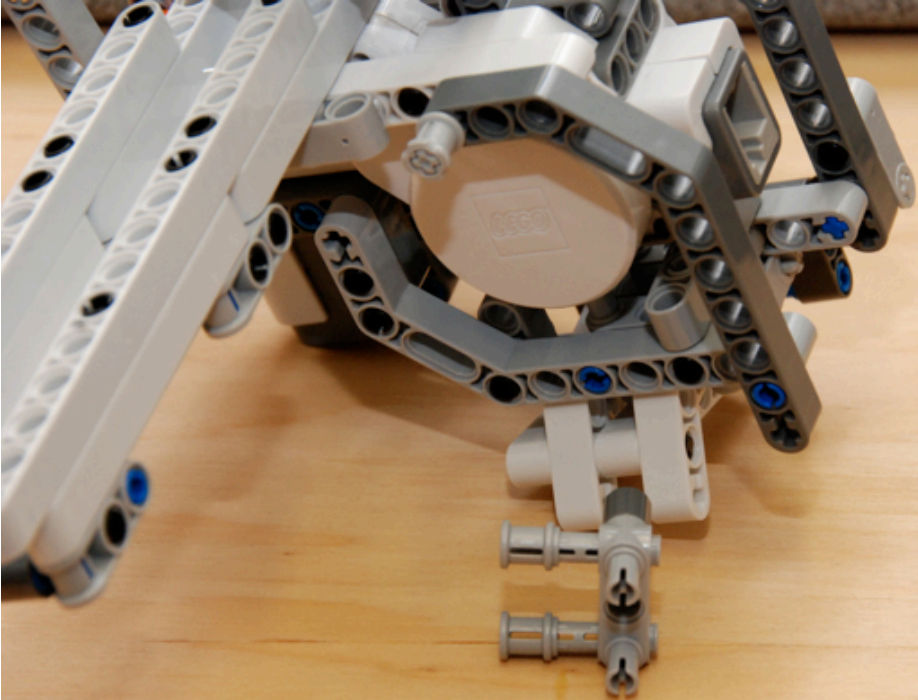


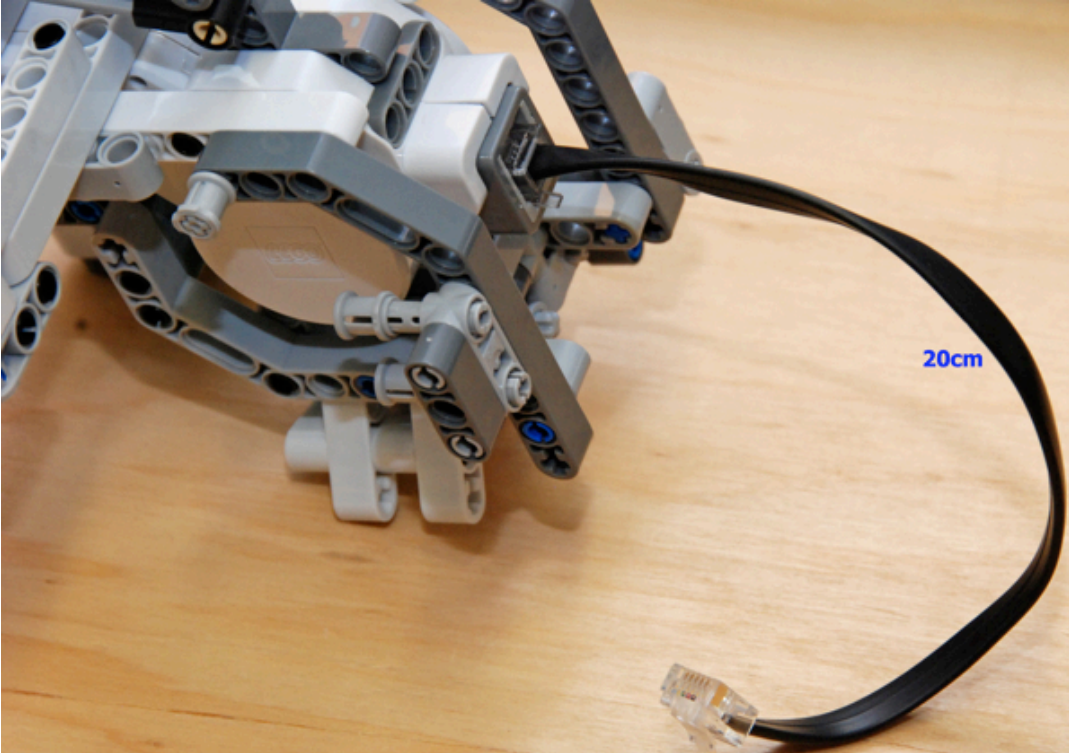
20cm



(4 rod used to mount completed top assembly later on)



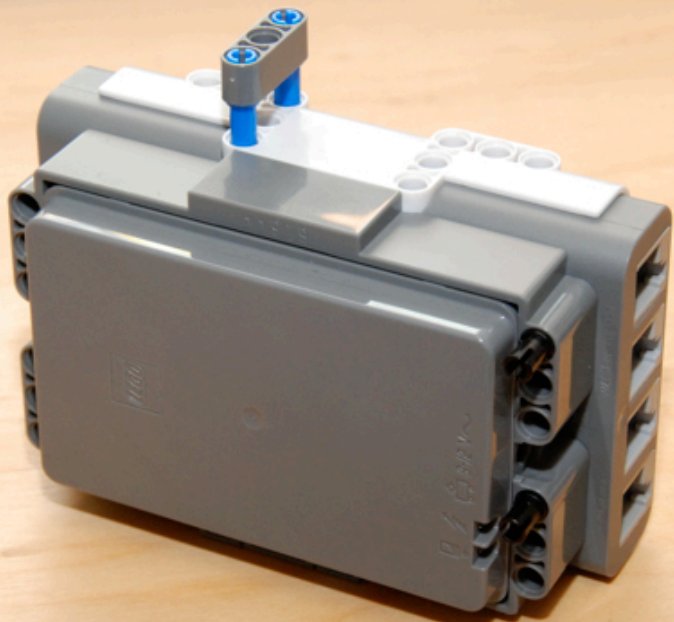


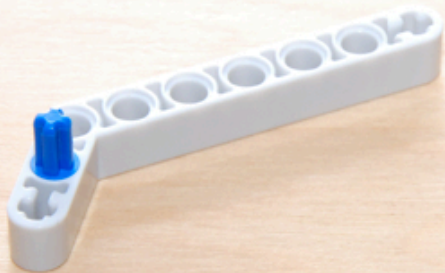


20cm



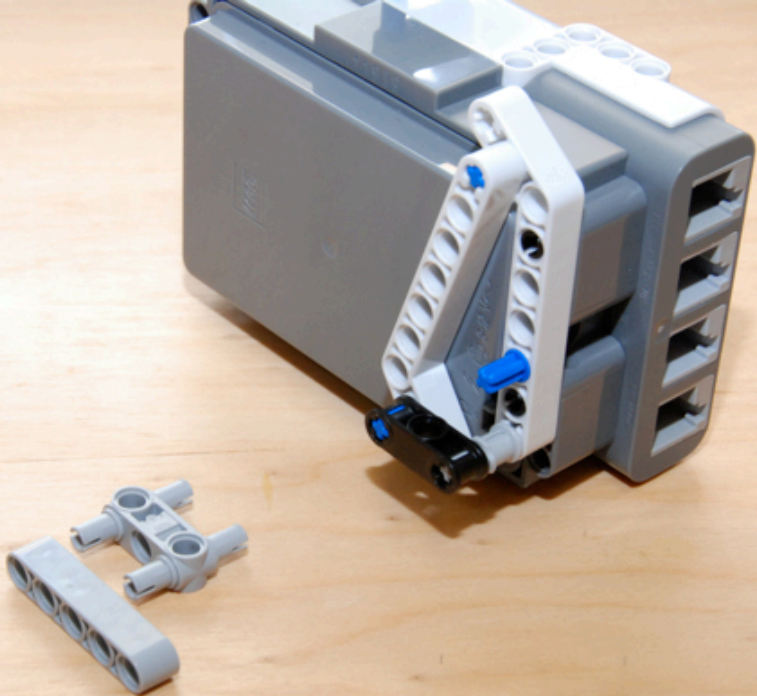


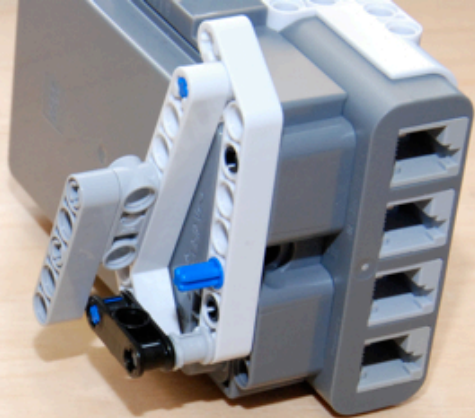


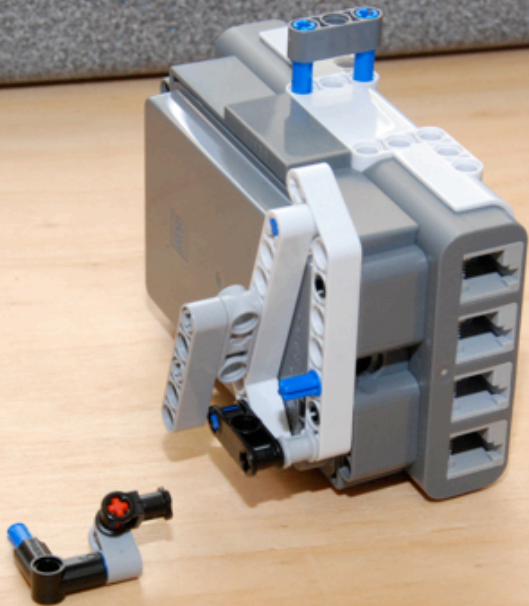




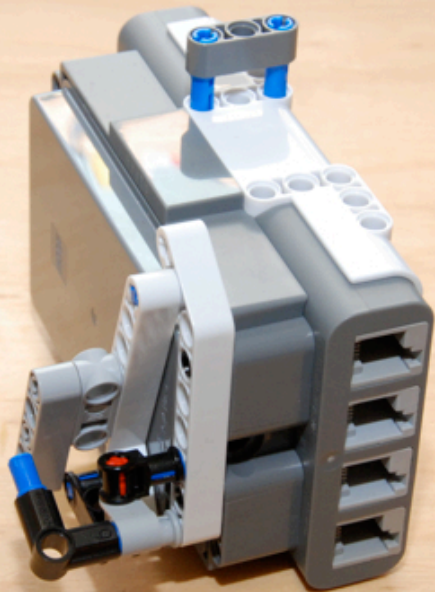




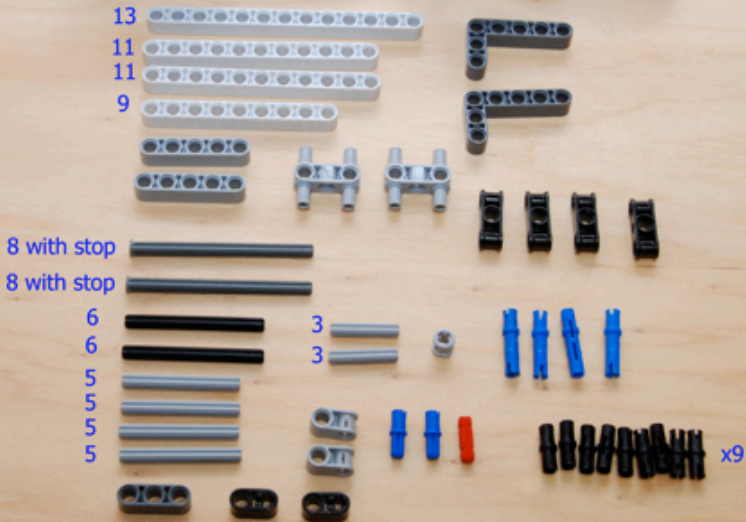


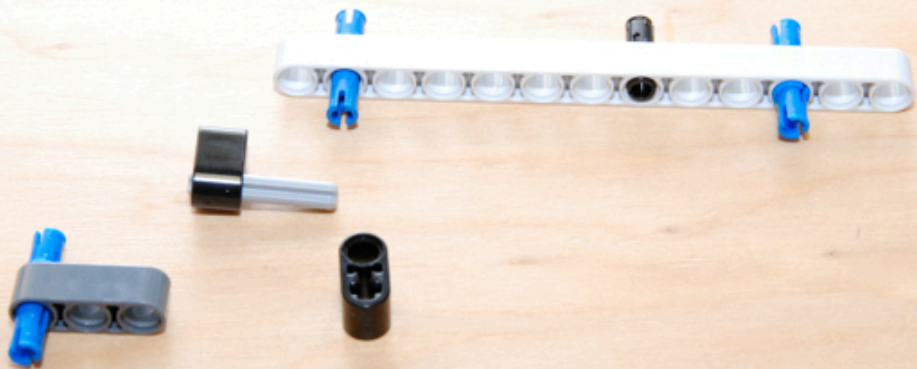




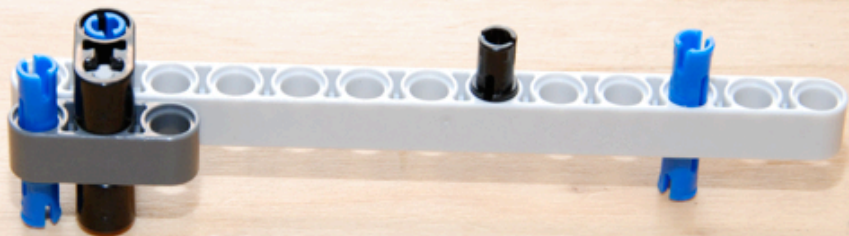


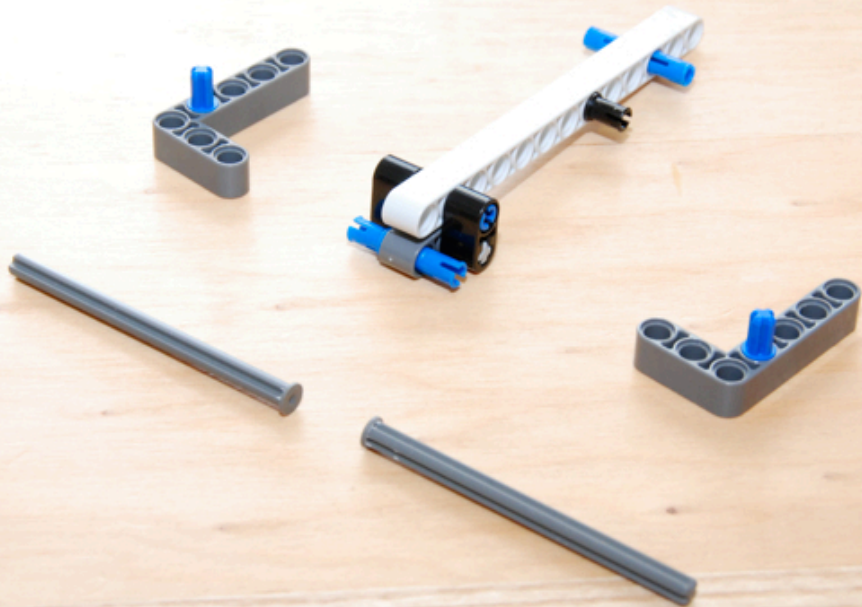
Section 12

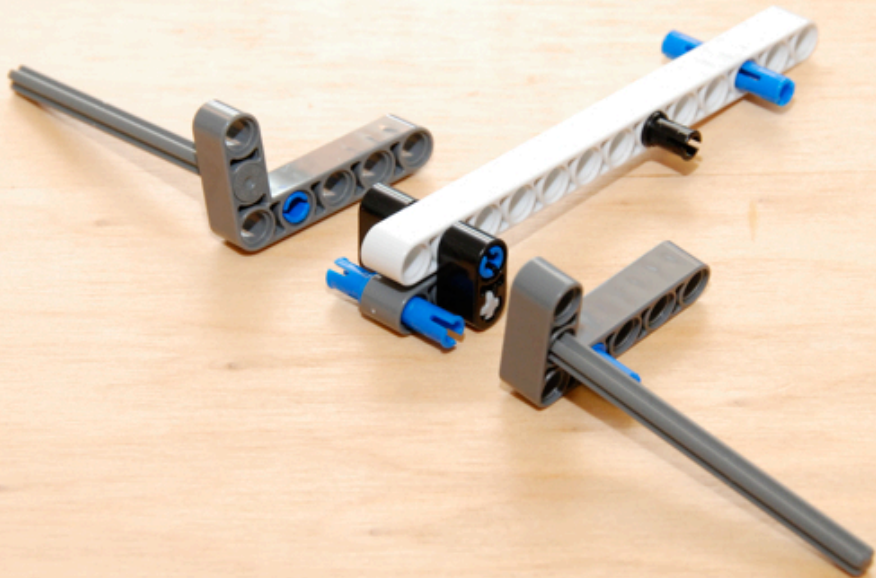


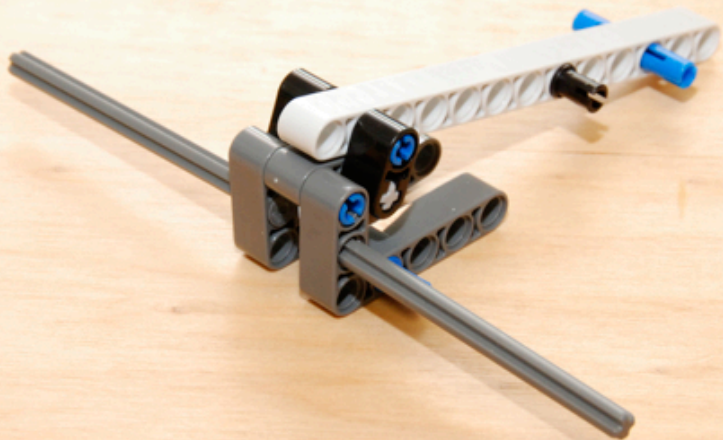










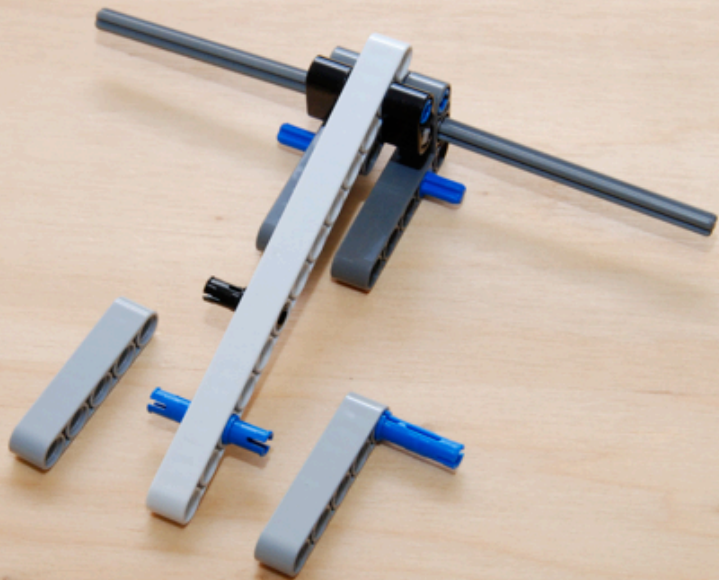


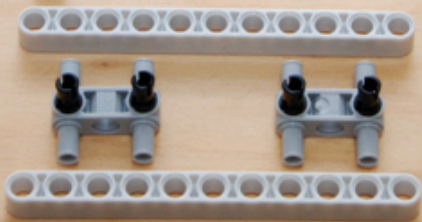
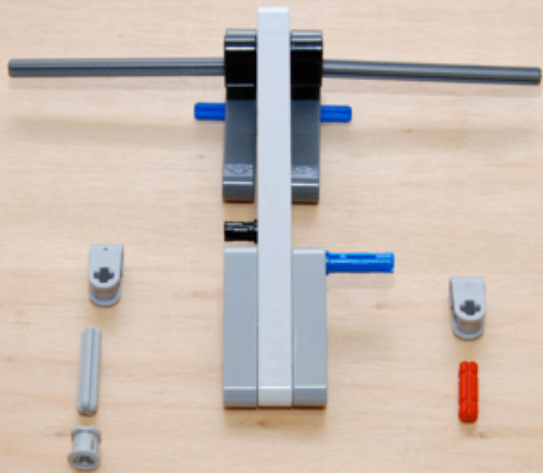


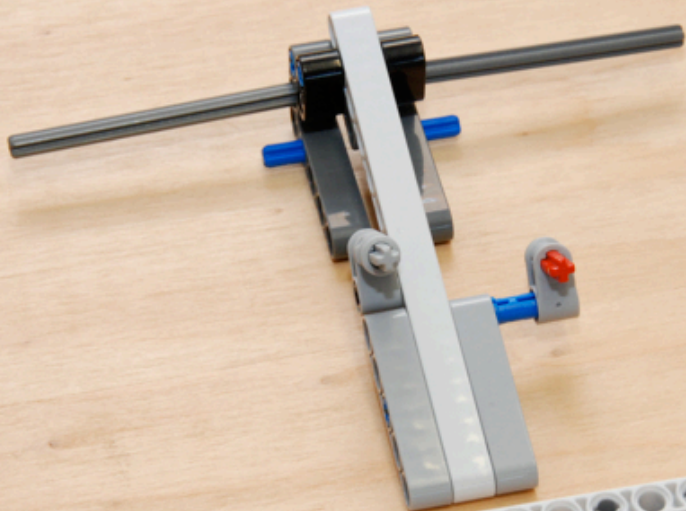


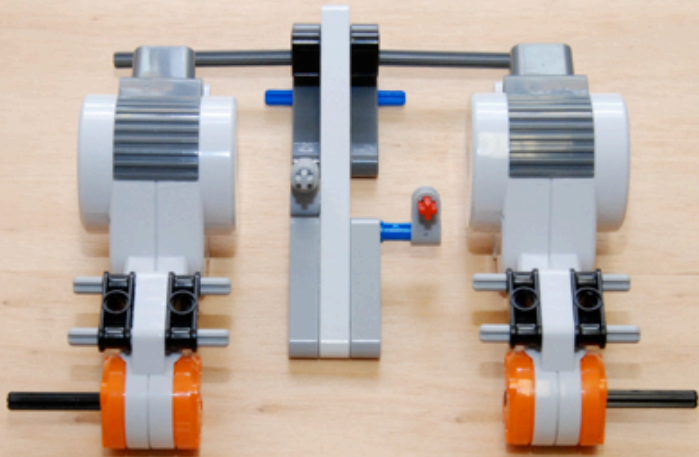


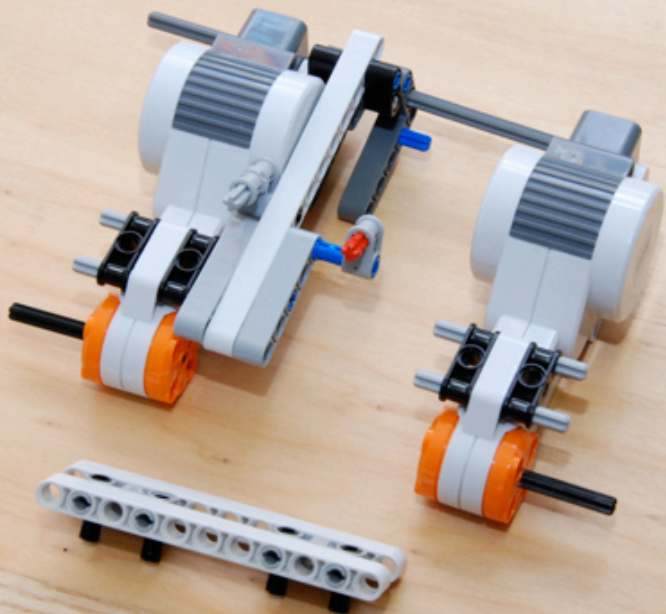




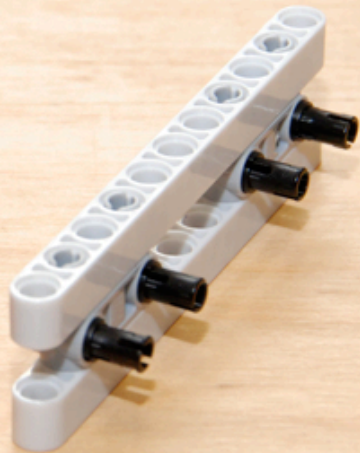
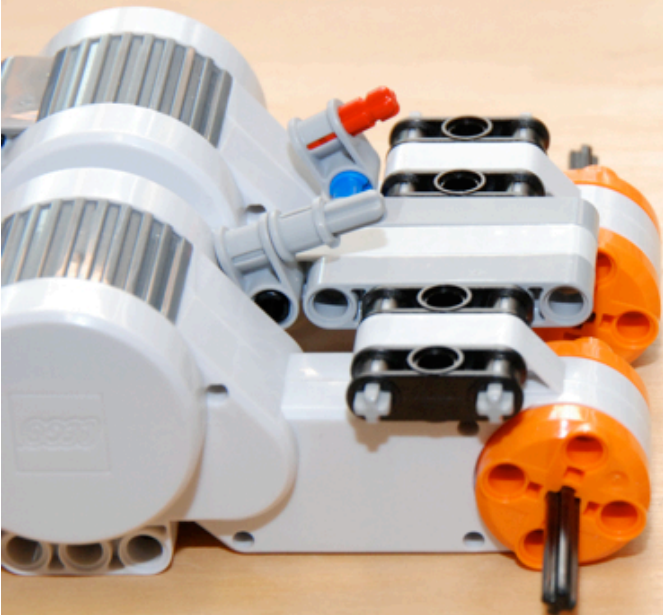


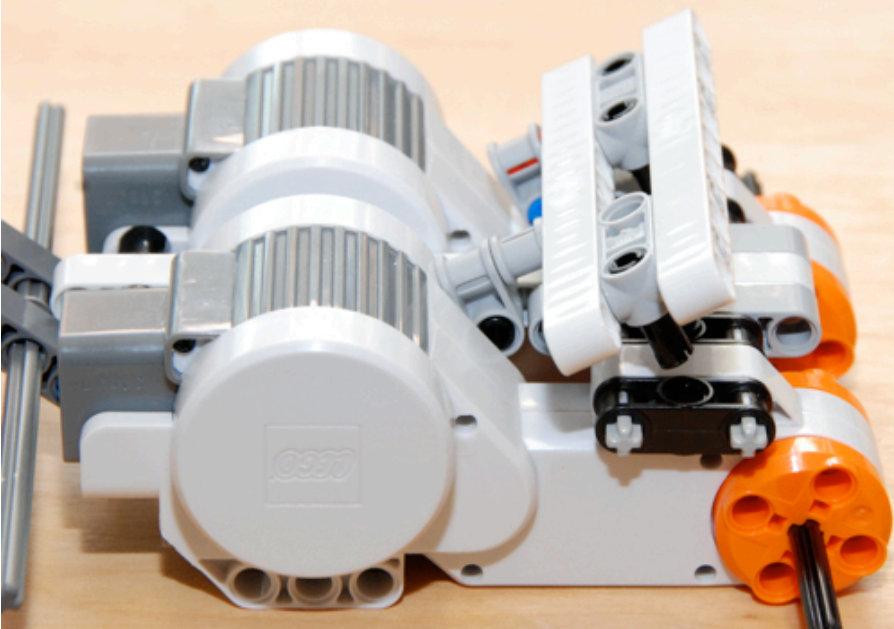


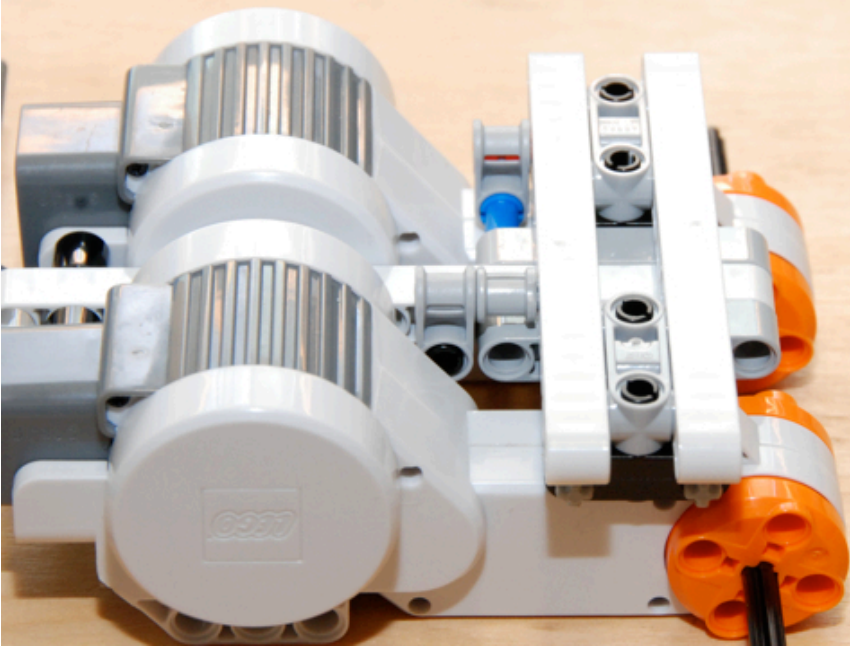


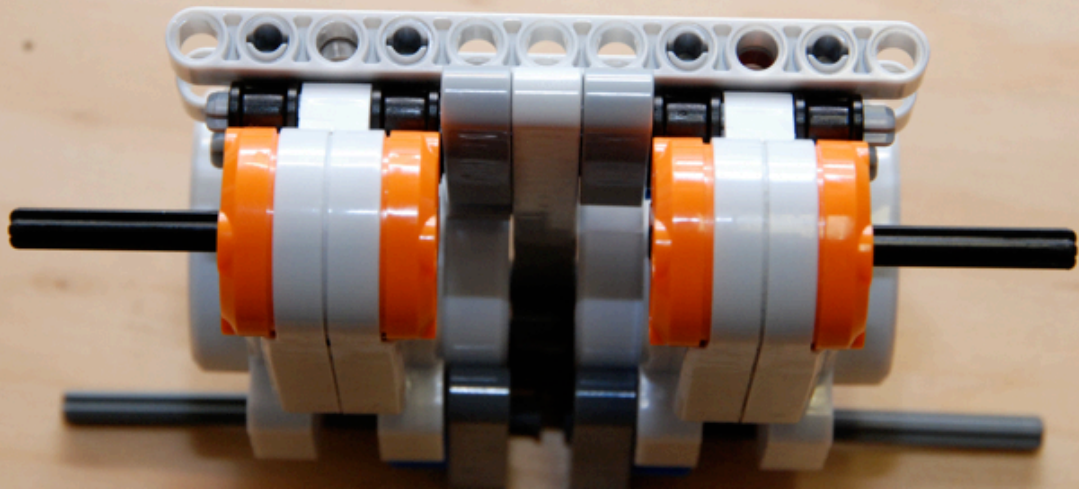


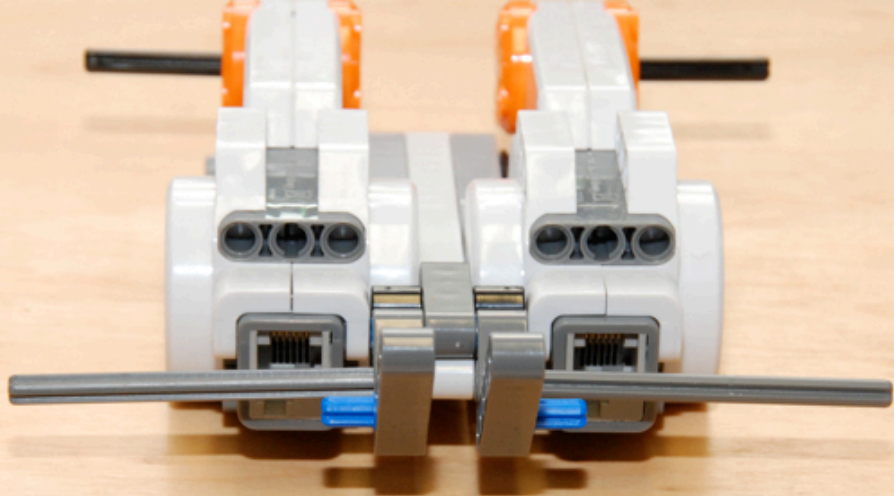


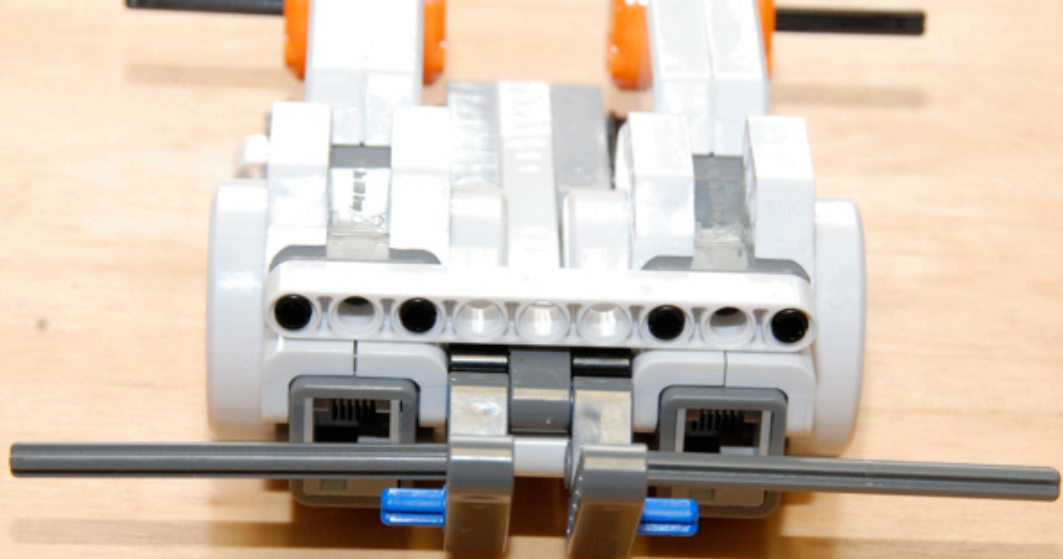


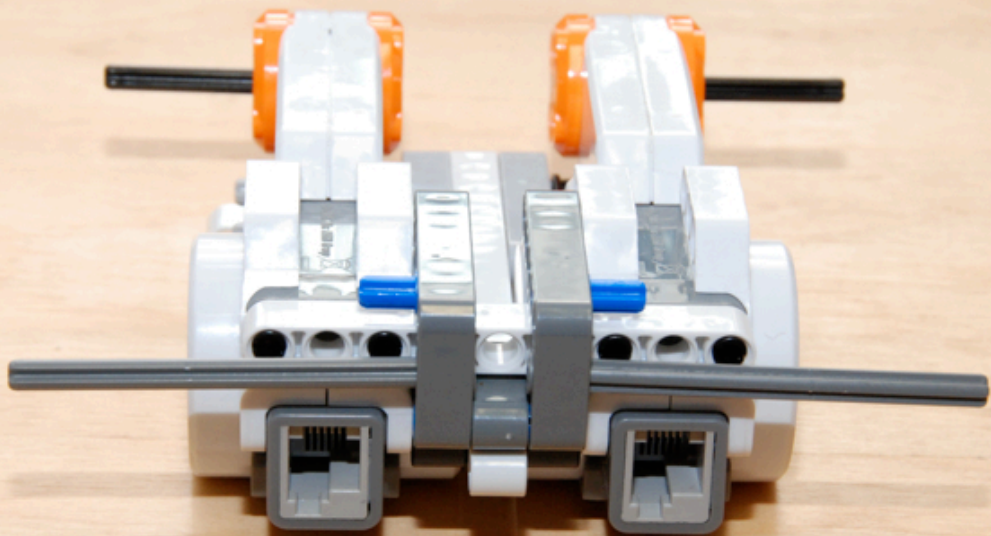










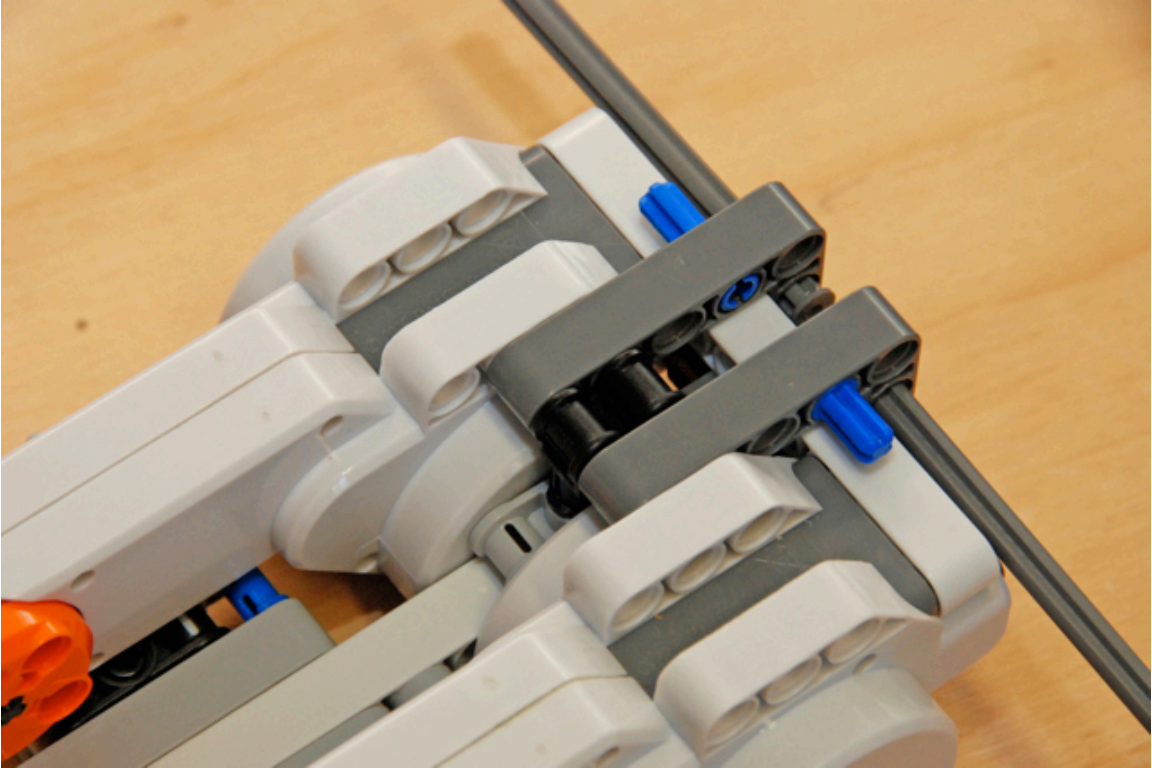


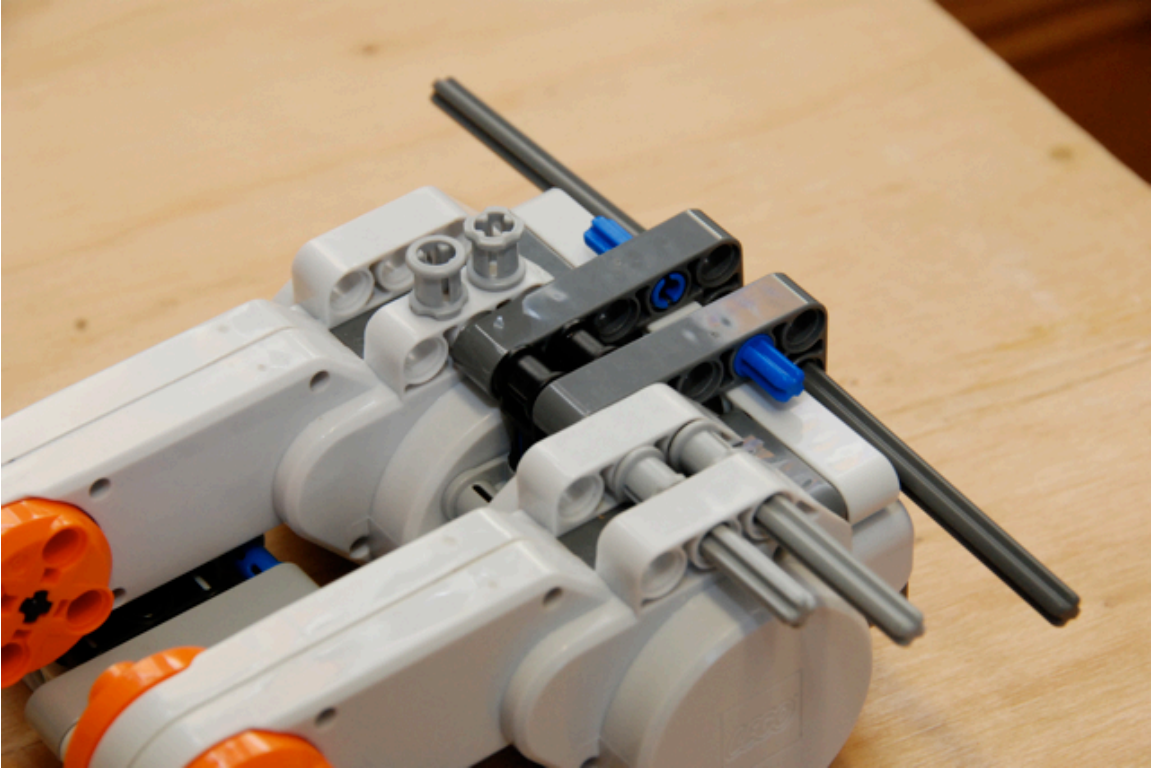











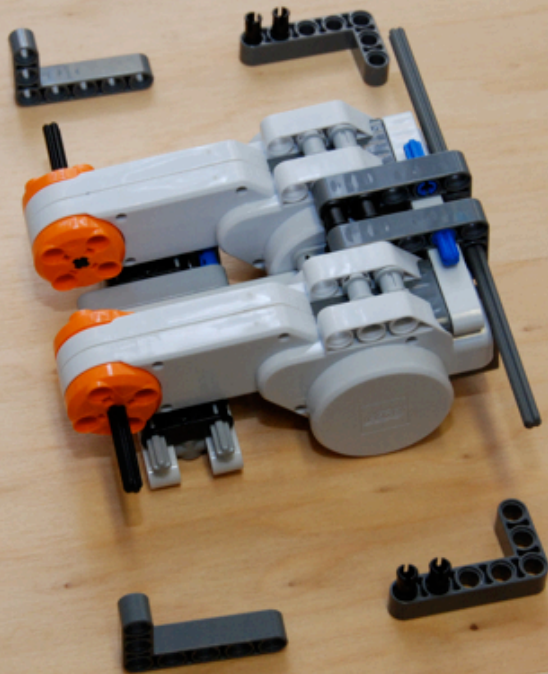


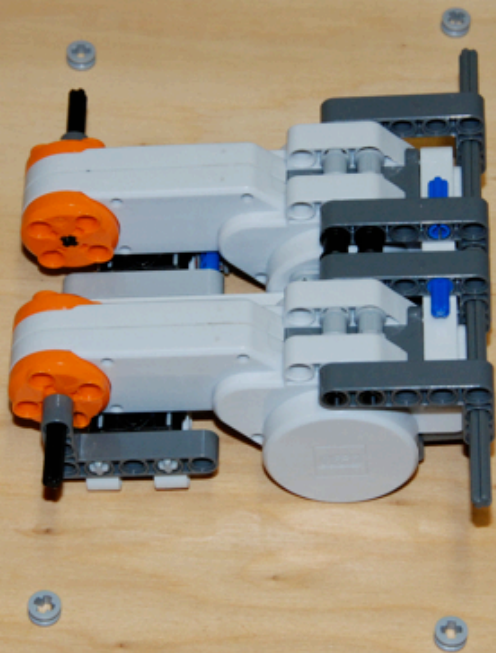
A close-up photograph of a LEGO Technic assembly. The assembly consists of several white Technic beams connected by grey pins. Two grey axles are visible, extending from the right side. A hand is shown in the bottom right corner, using a grey axle to push a grey pin into a hole in the white beam. The background is a light-colored wooden surface. The text "Use spare axle to push axle centrally" is overlaid in blue on the image.

Use spare axle to push axle centrally

A close-up photograph of a LEGO Technic assembly. A hand is shown pushing a grey axle into a white Technic beam. The axle is currently off-center. The assembly includes various grey and white Technic parts, including a grey axle, a white Technic beam, and several grey Technic pins. Two blue Technic pins are visible, securing the assembly. The background is a light-colored wooden surface.

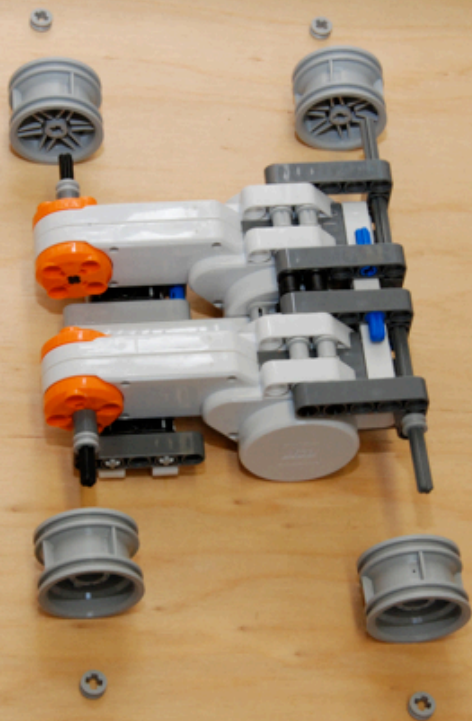
**Push axle until it is centred**

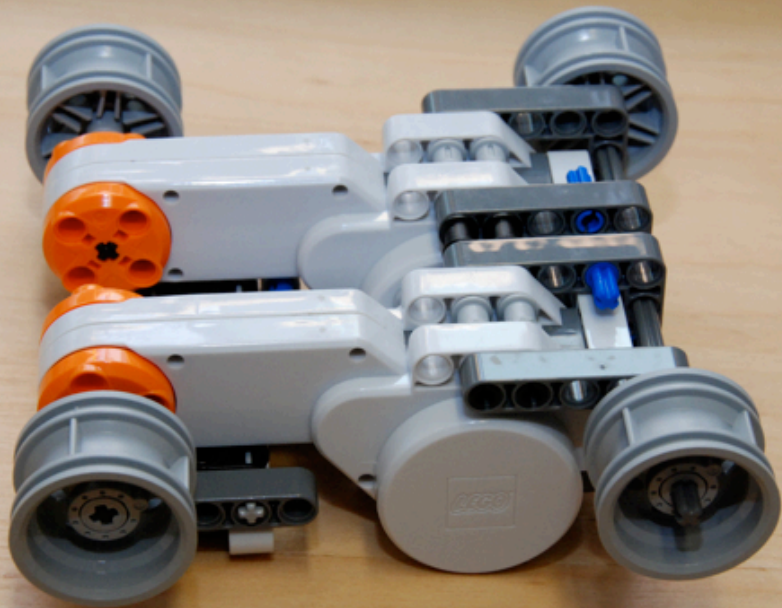


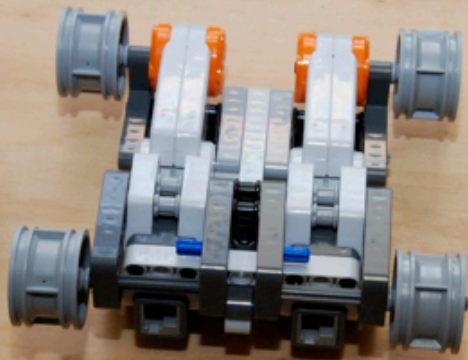


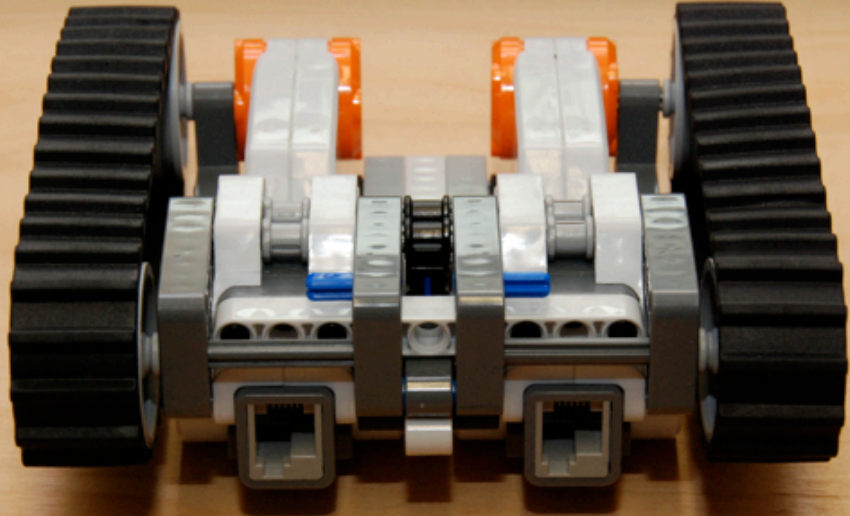


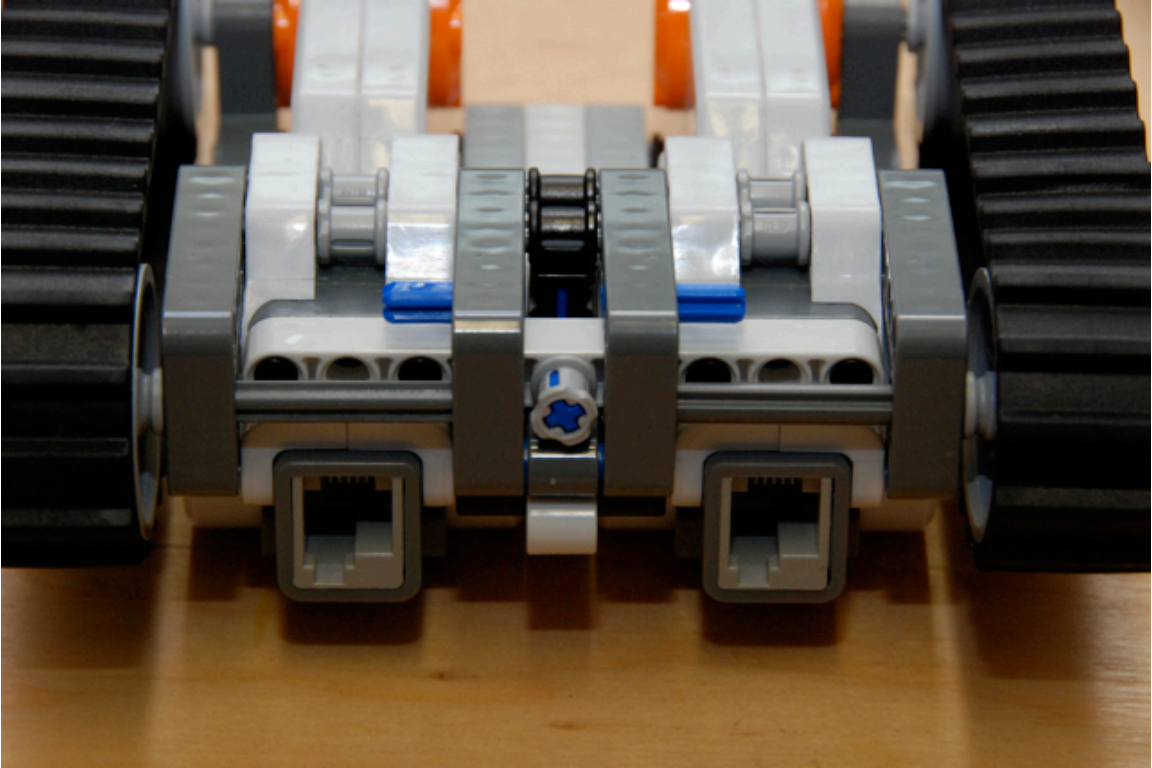










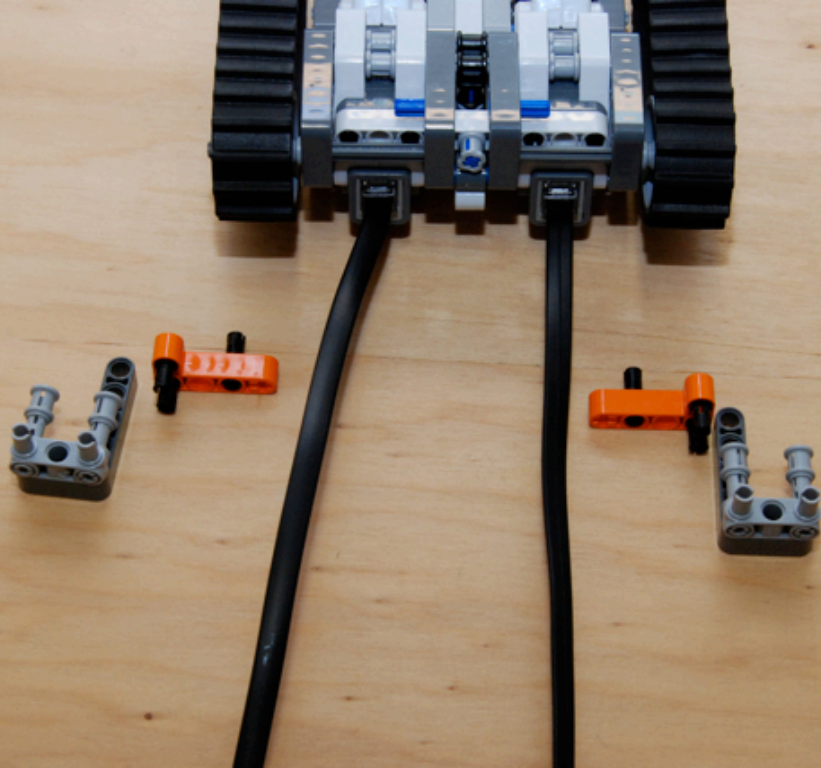




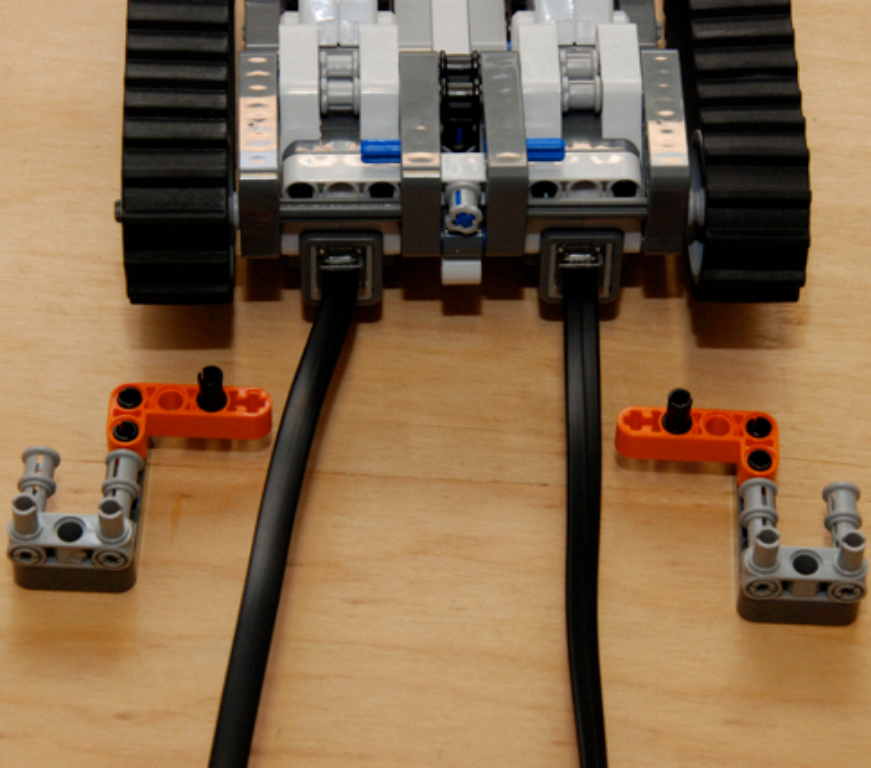
35cm

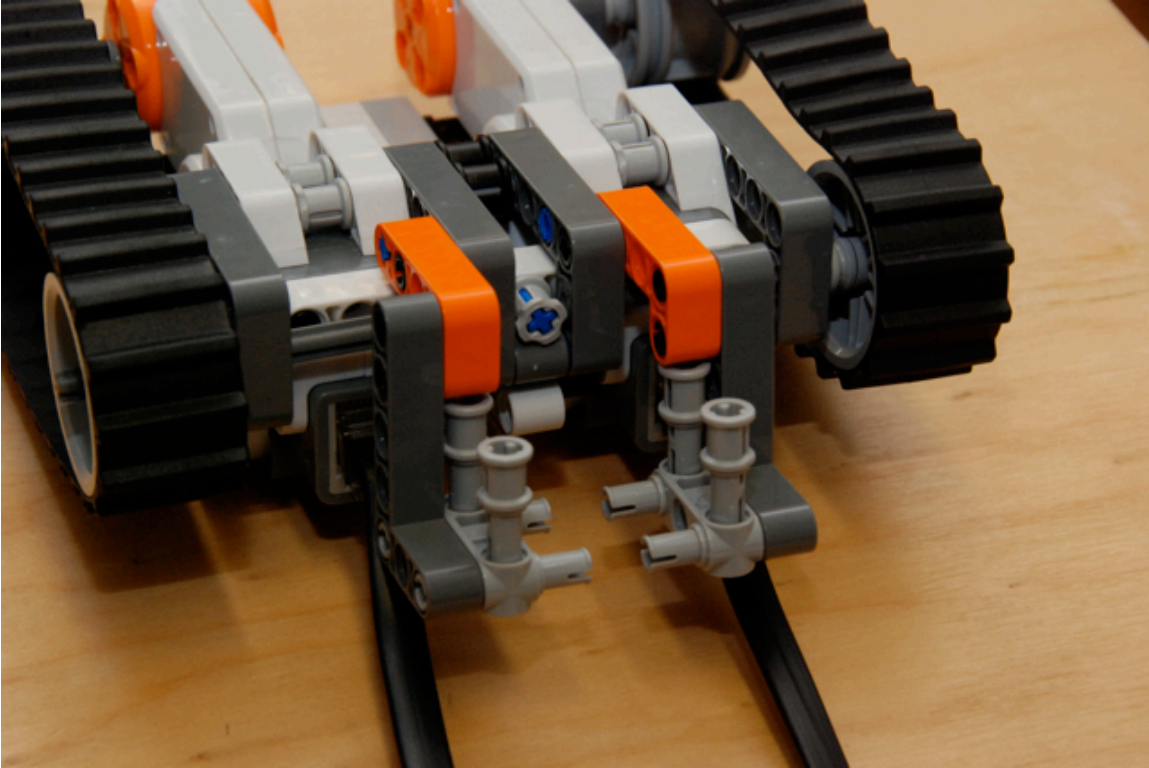


35cm



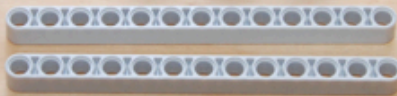
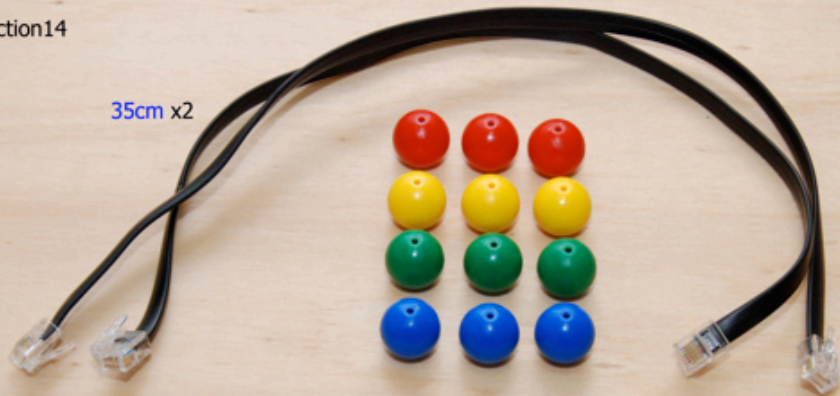


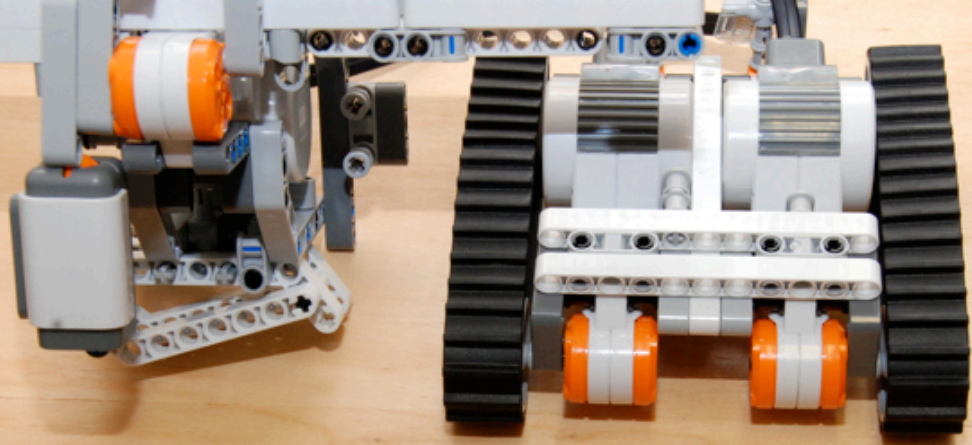


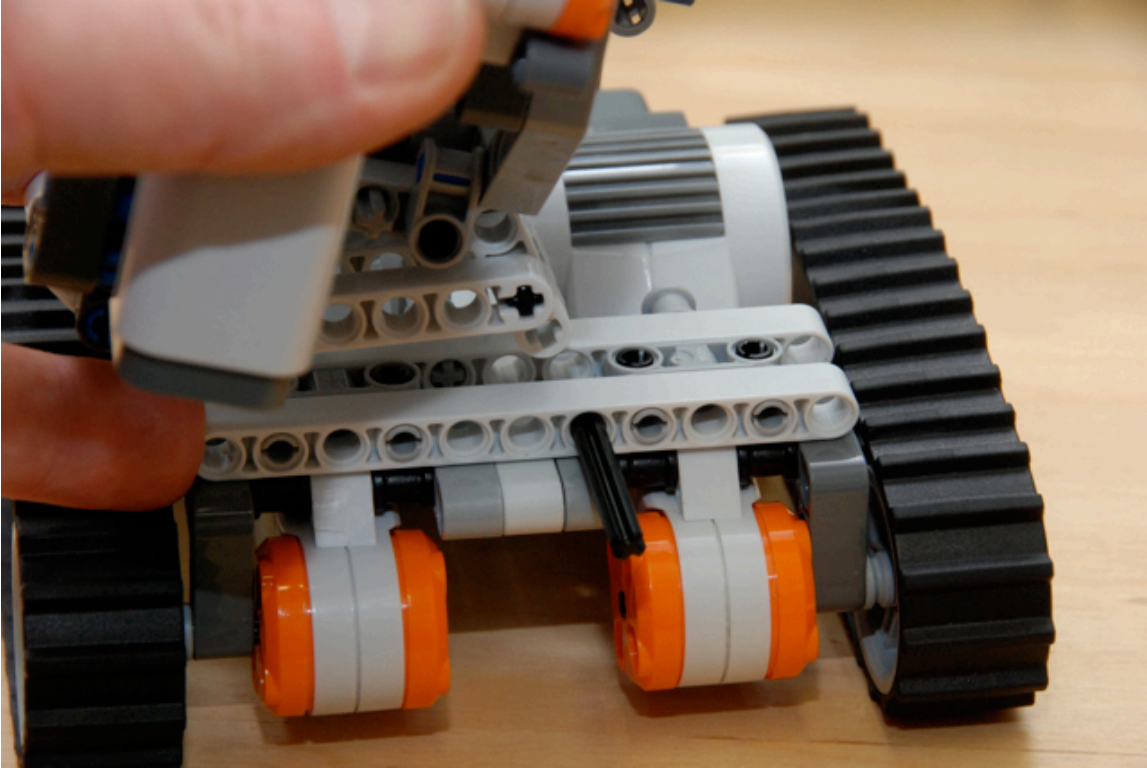


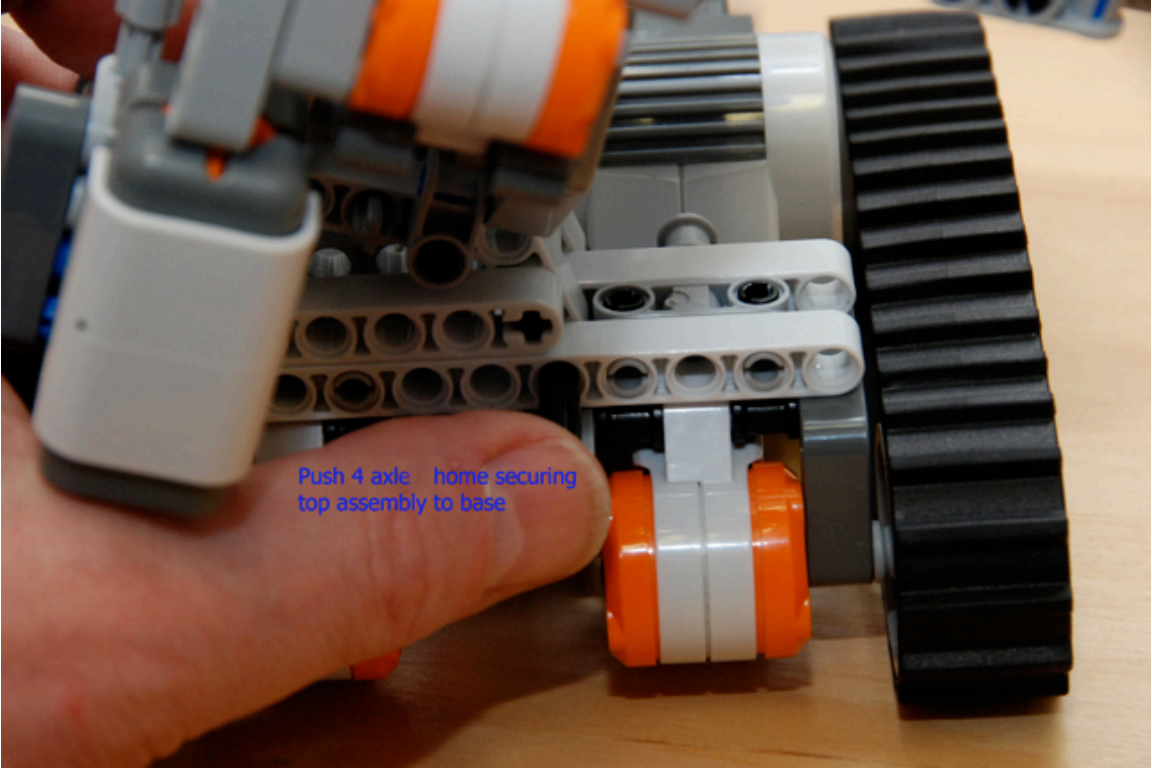
Section14

35cm x2

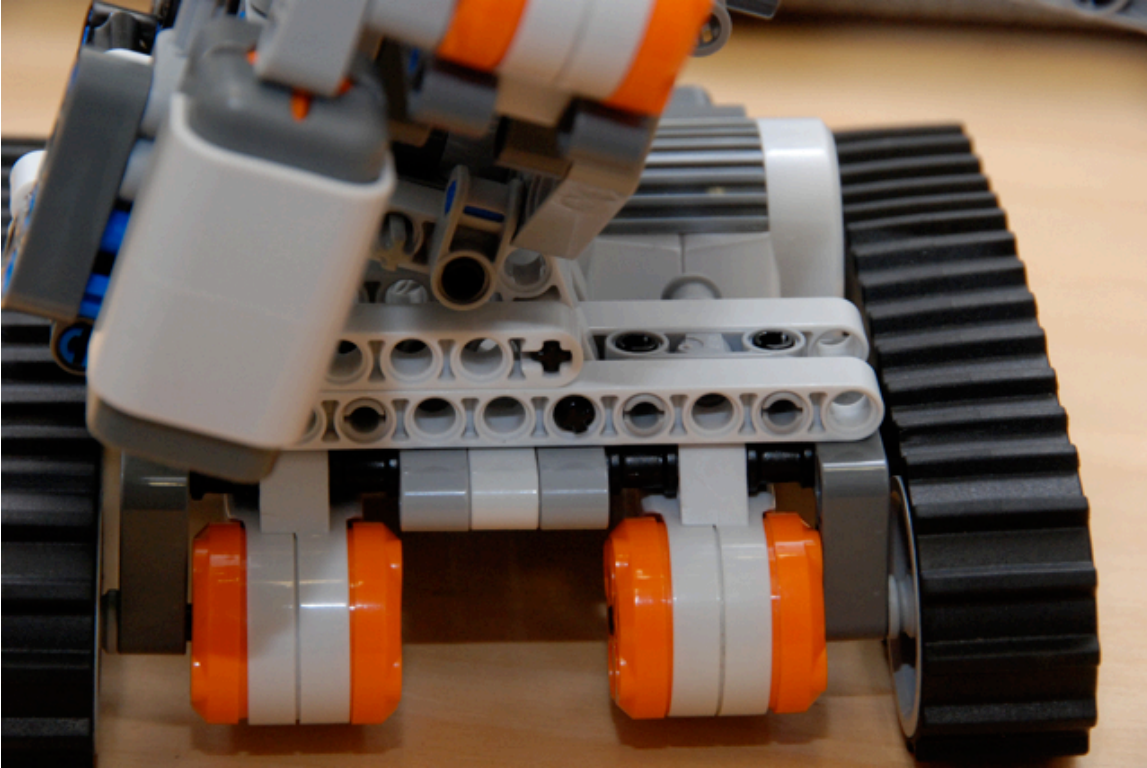


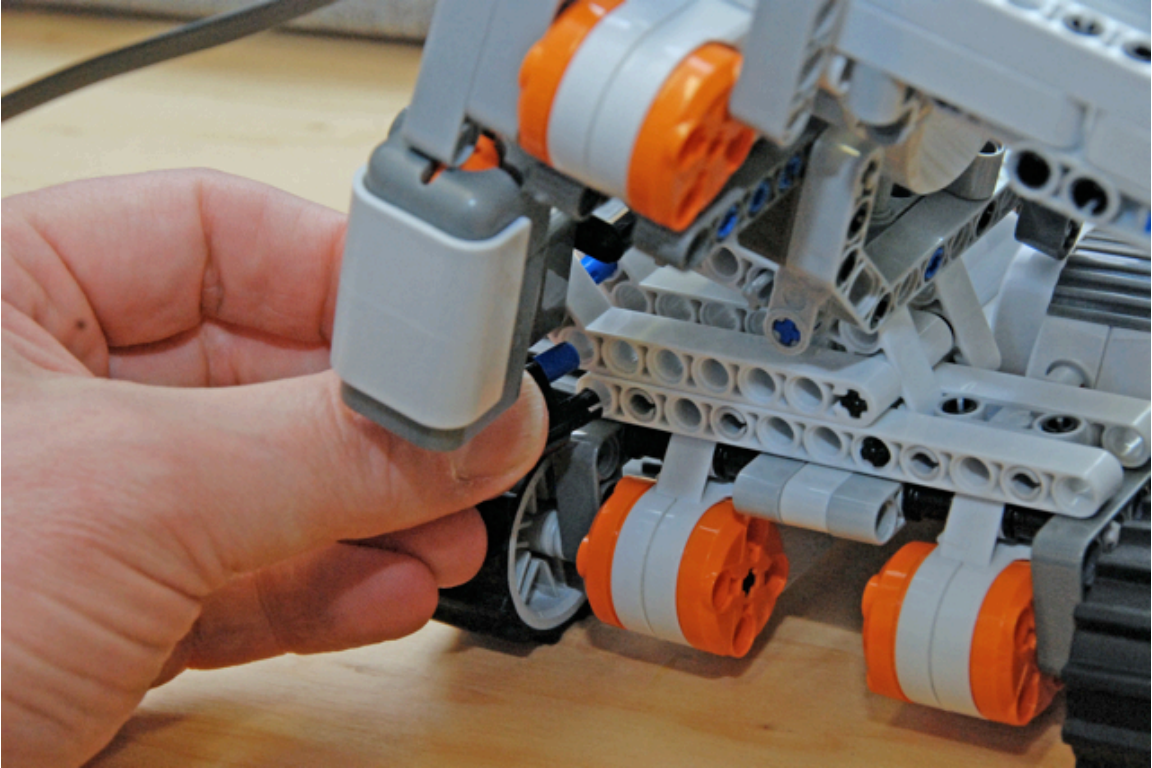




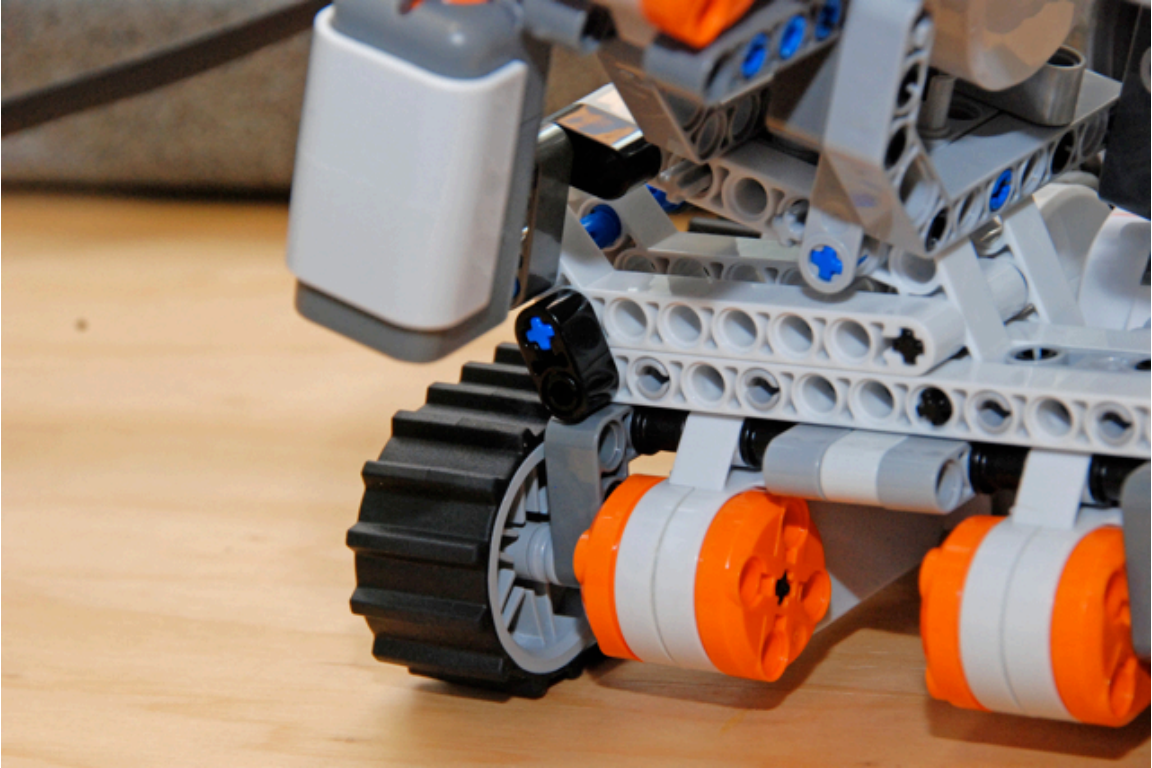
A close-up photograph of a LEGO Technic assembly. A hand is shown pushing a grey axle into a hole on a white Technic beam. The assembly includes a grey motor, a white rubber band, a black track, and two orange wheels. The background is a light-colored wooden surface.

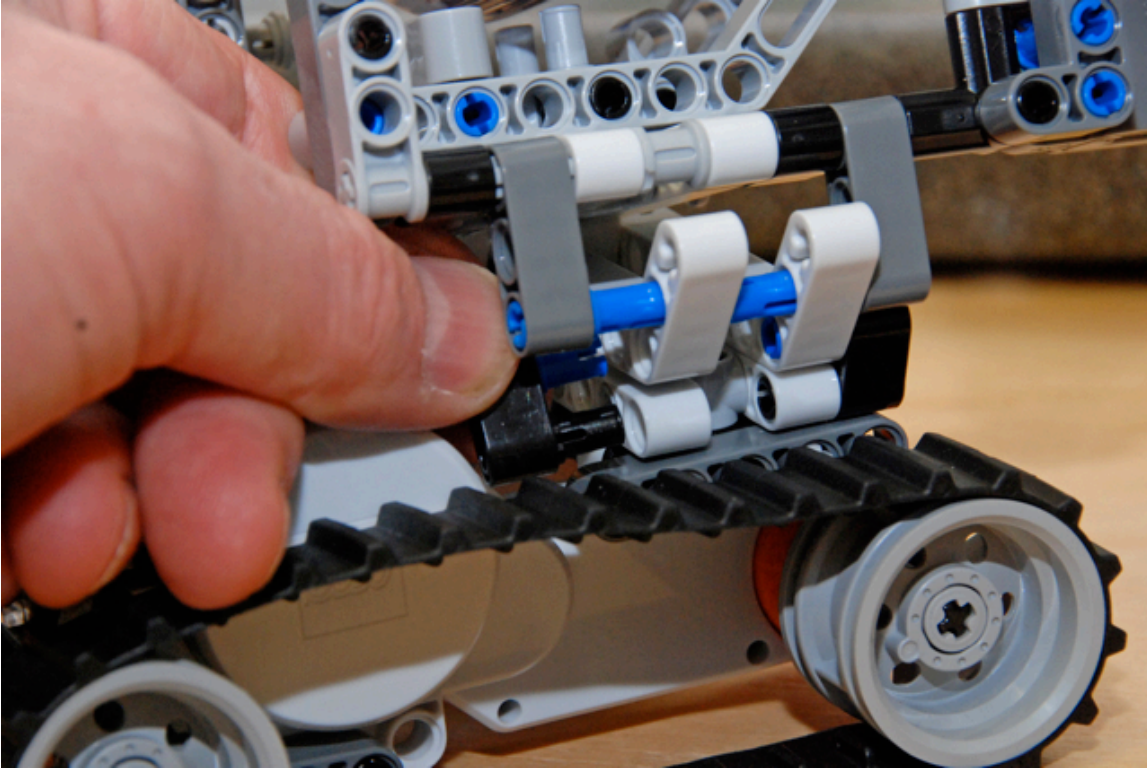
Push 4 axle home securing  
top assembly to base

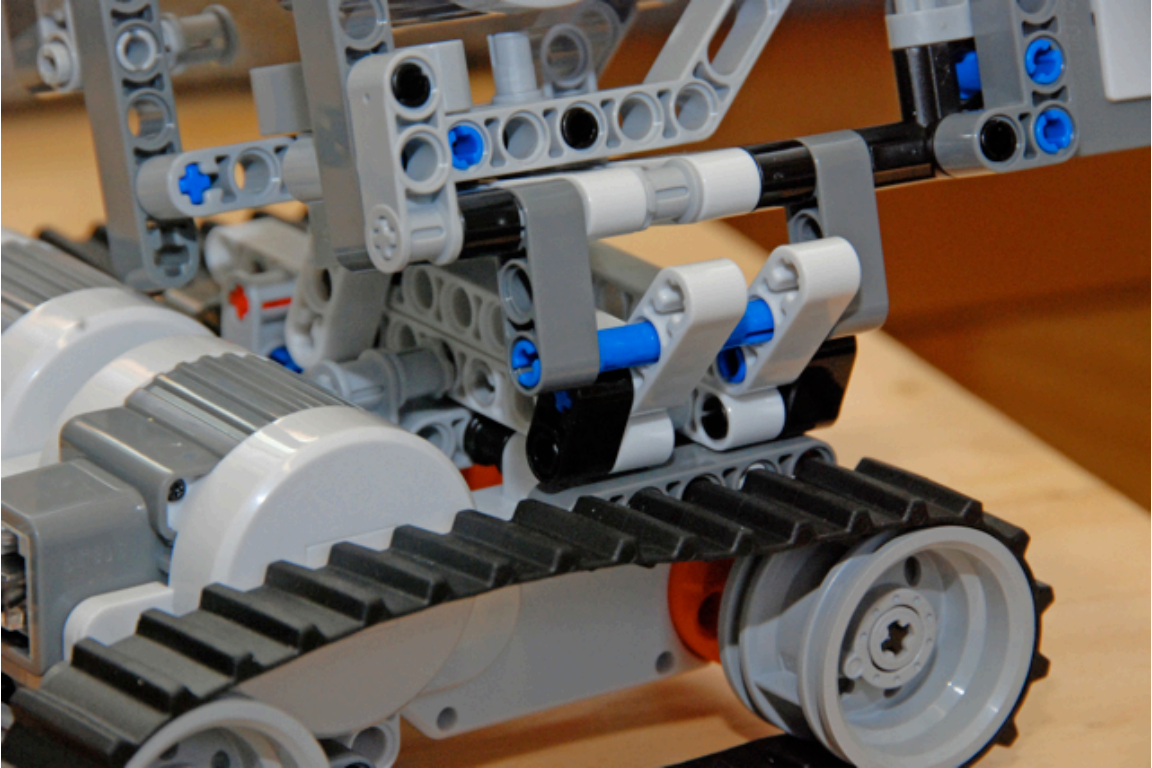


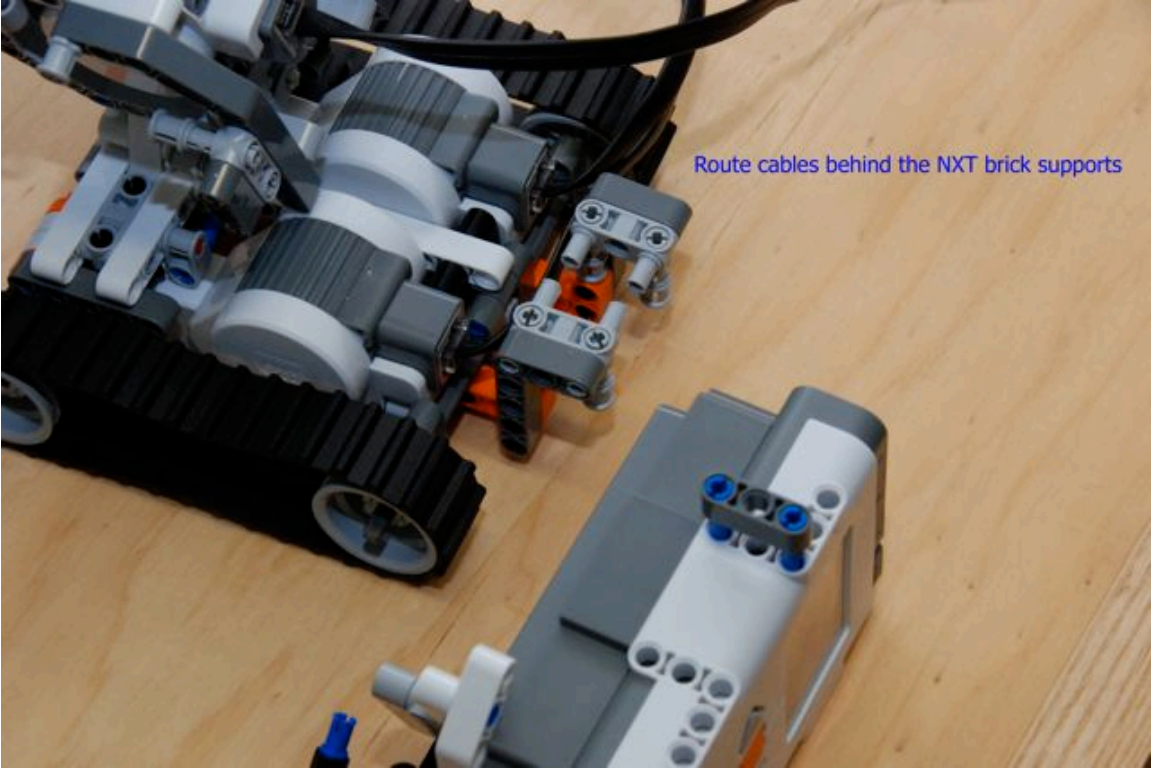




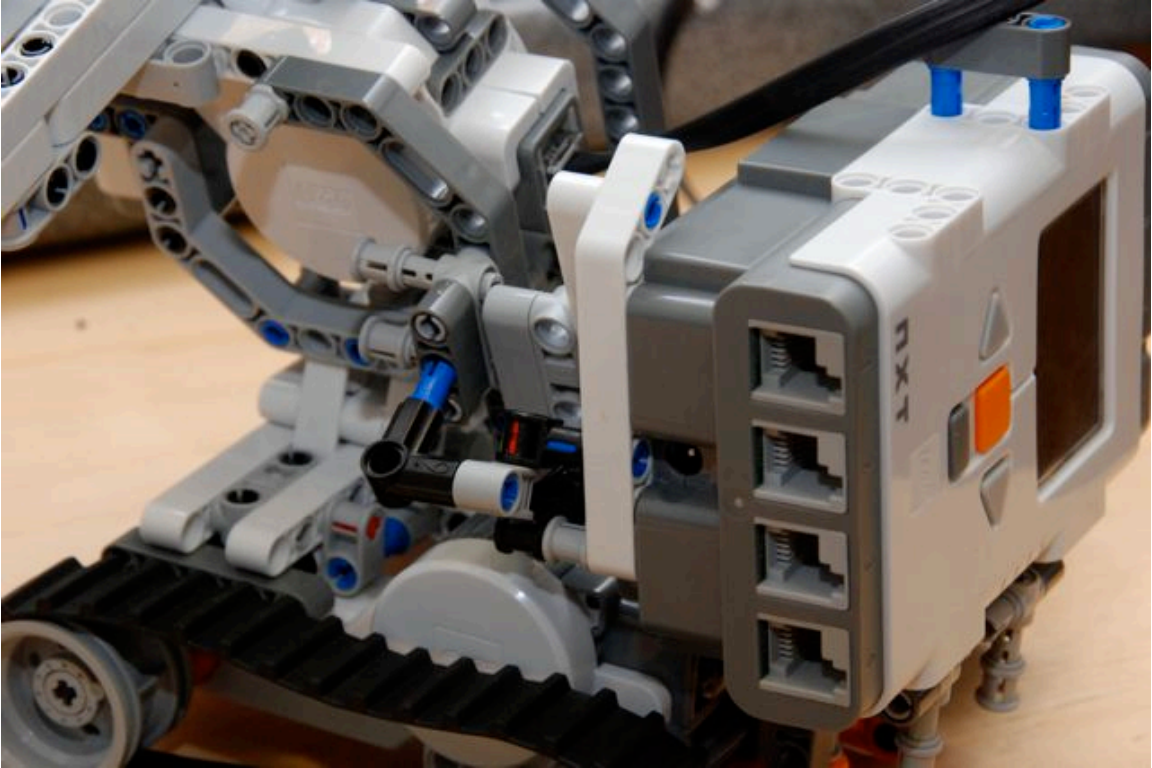


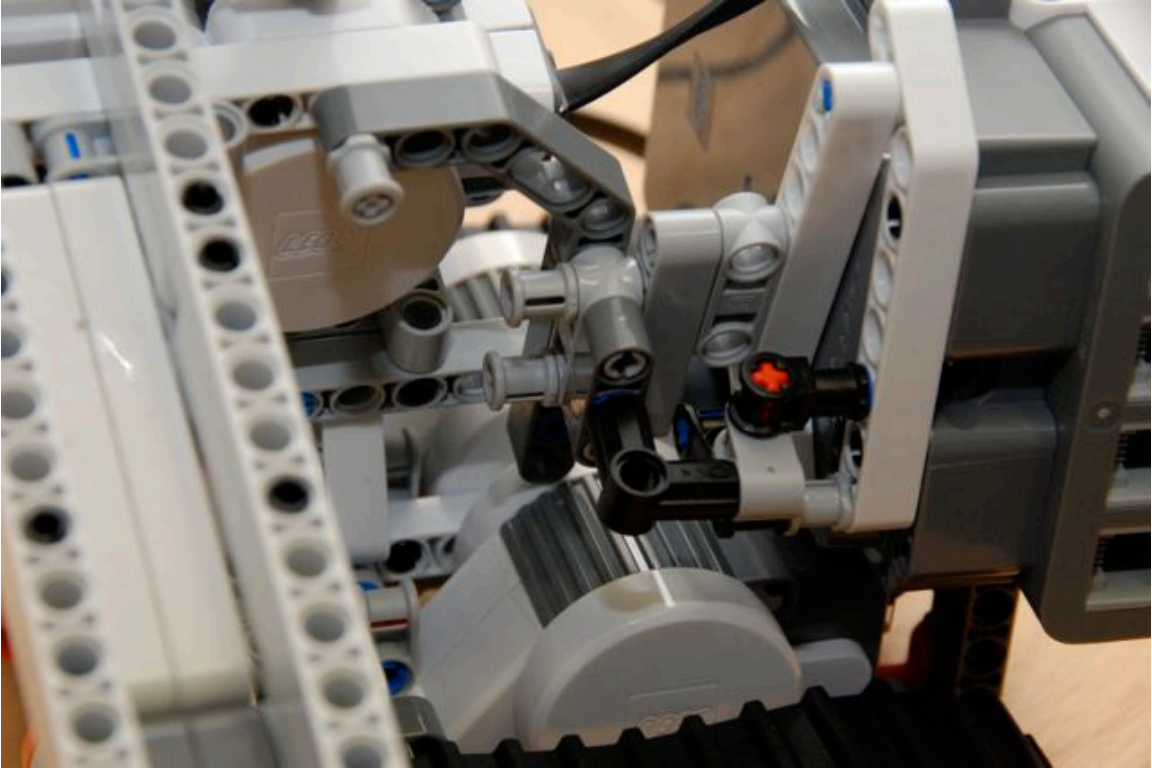


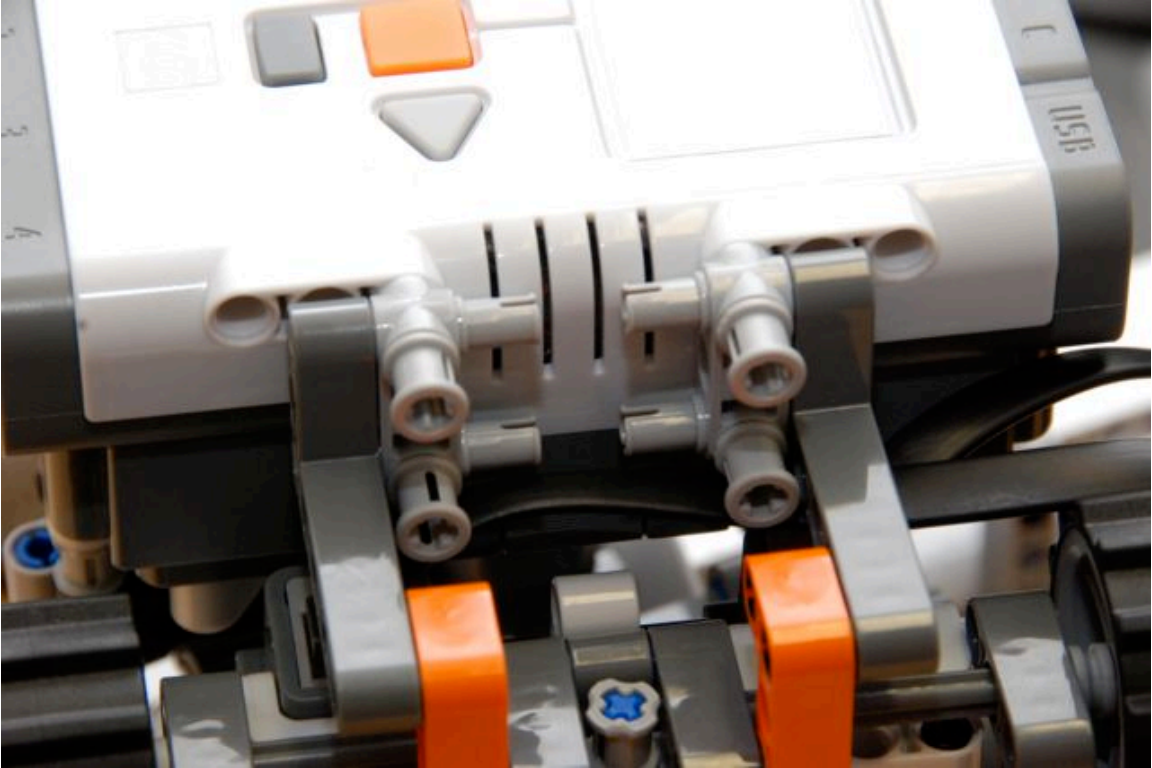


A close-up photograph of a LEGO Technic assembly on a light-colored wooden surface. The assembly features a grey motor, black gears, and various grey and white Technic components. A black cable is routed through the structure. A blue text overlay in the upper right corner provides a tip: "Route cables behind the NXT brick supports".

Route cables behind the NXT brick supports







Temporarily remove cable tidy

20cm

NXT



C

C





NXT

A

35cm

RIGHT hand motor to A



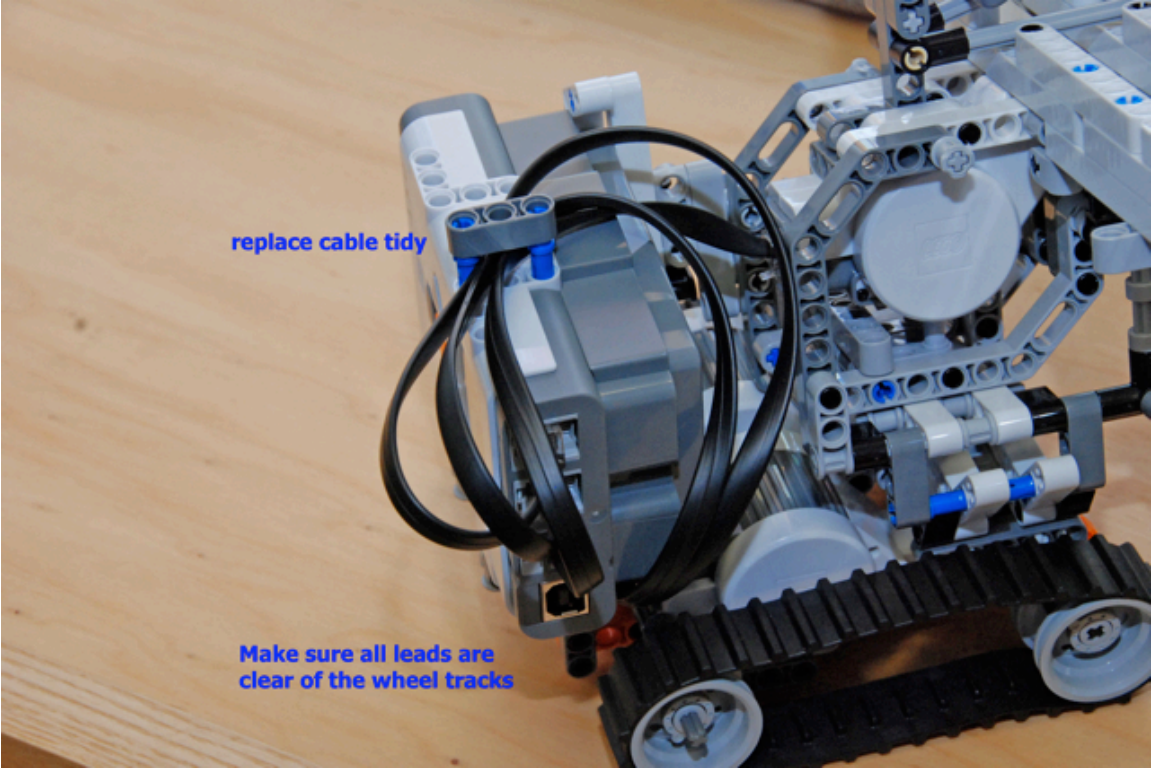
NXT

B

USB

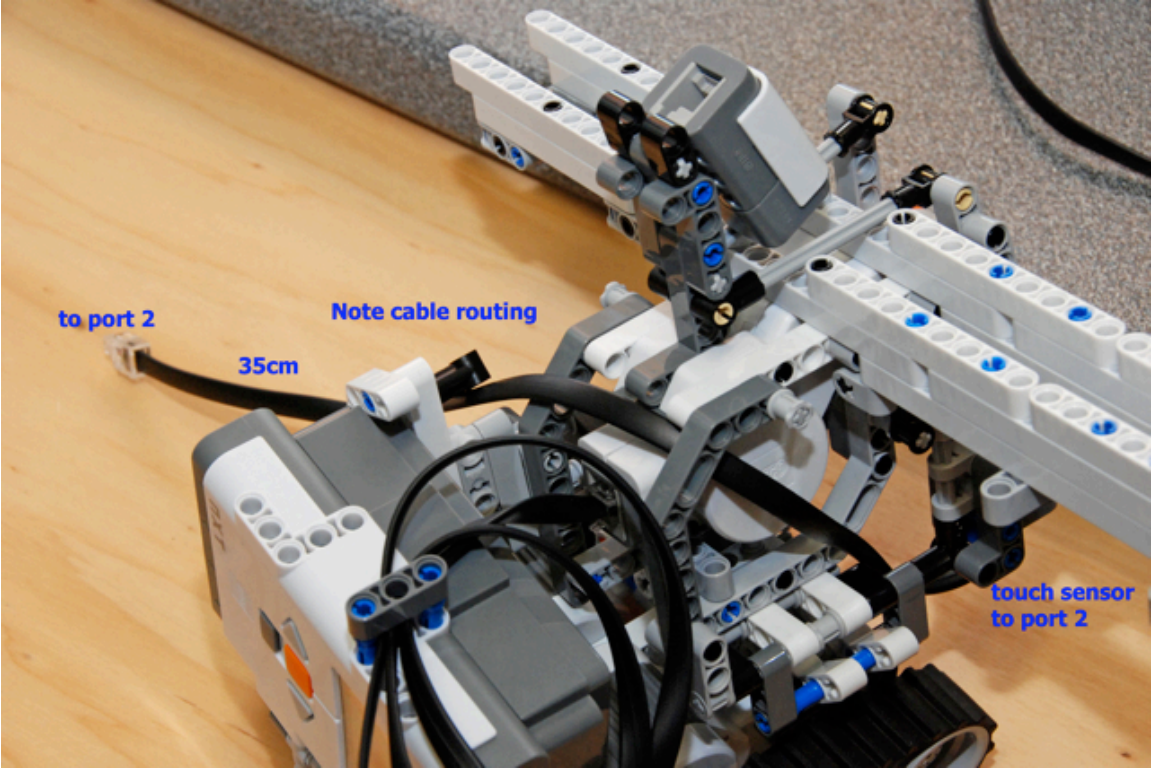
35cm

LEFT hand motor to B

A close-up photograph of a LEGO Technic robot chassis. The chassis is primarily grey and white, with a black motor at the front. A black cable is connected to the motor and is currently tangled. A blue cable is also visible. The robot is mounted on a black track with two grey wheels. The background is a light-colored wooden surface. Two blue text annotations are present: one pointing to a grey cable tie and another pointing to the space between the motor and the track.

replace cable tidy

Make sure all leads are clear of the wheel tracks

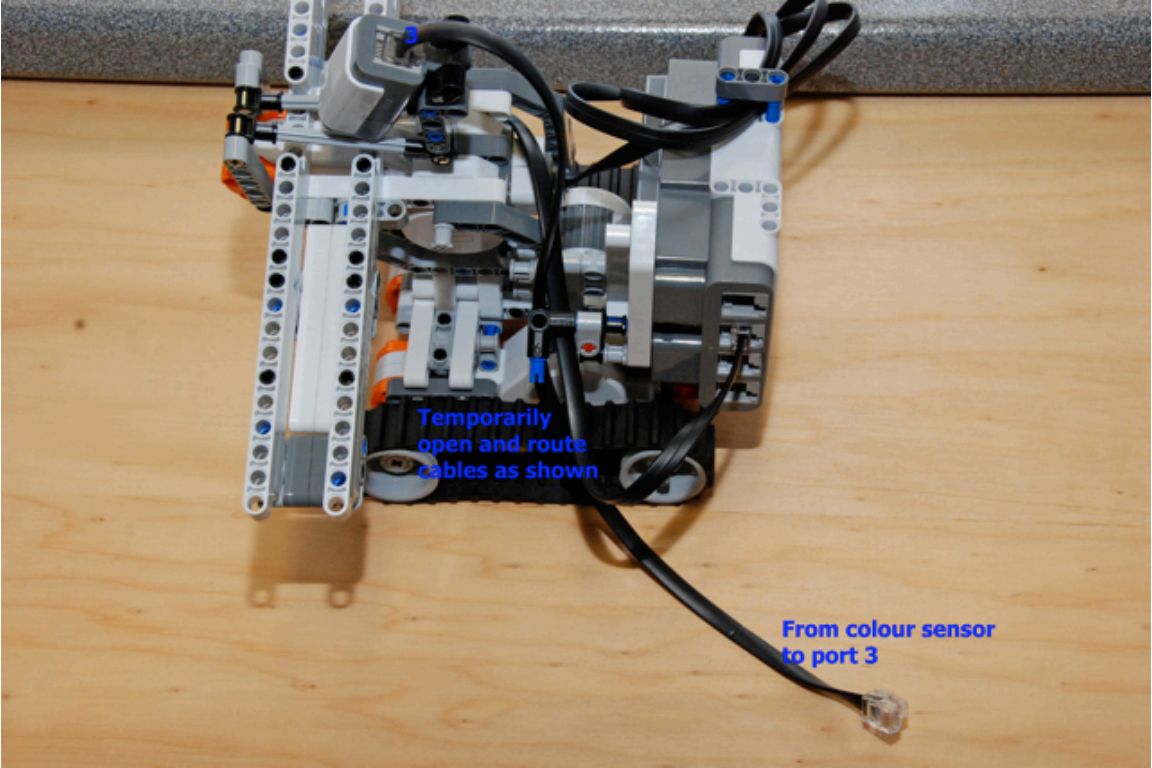
A close-up photograph of a LEGO Technic robot assembly, likely a Mindstorms NXT-based robot, resting on a light-colored wooden surface. The robot is constructed from grey and white Technic beams and connectors. A black cable is routed through the assembly, with several blue pins visible at various connection points. Annotations in blue text provide specific details about the cable's path and connections. The cable starts from the left, passes through a series of connectors, and ends at a port on the right. The annotations include 'to port 2', '35cm', 'Note cable routing', and 'touch sensor to port 2'.

to port 2

Note cable routing

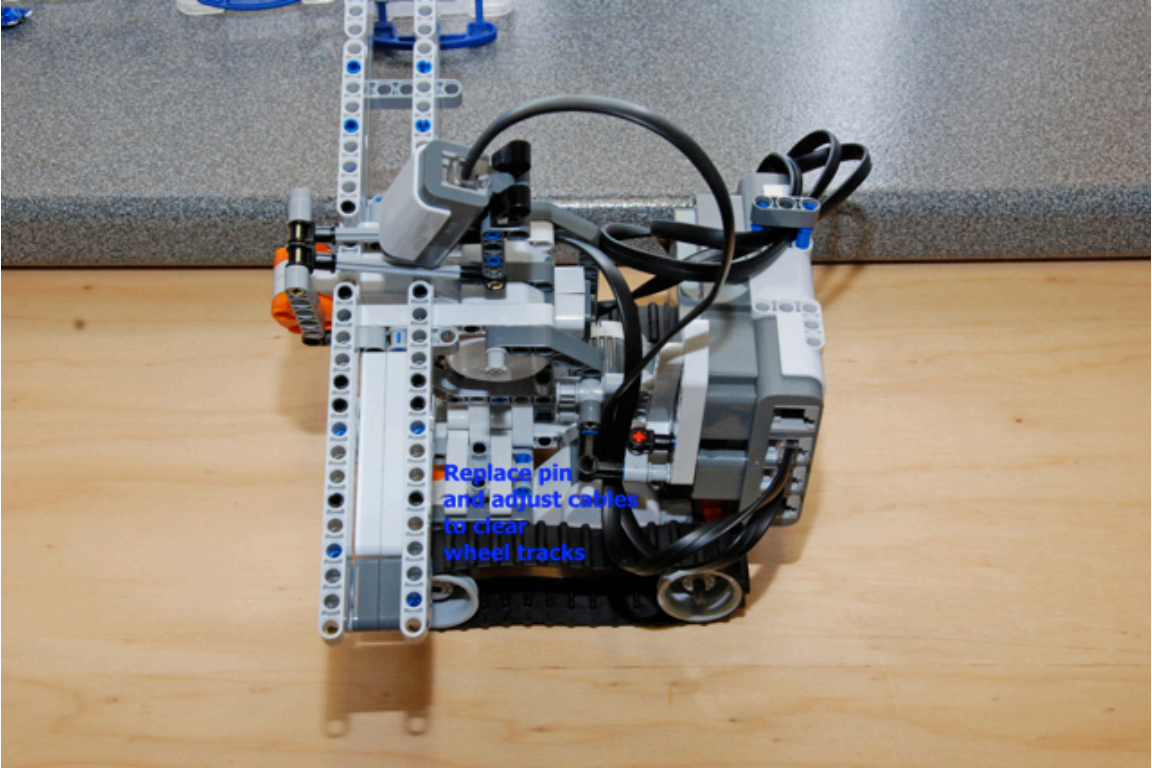
35cm

touch sensor  
to port 2

A photograph of a LEGO Technic assembly, likely a custom-built robot or sensor unit. The assembly is constructed from grey and white Technic beams and connectors. A central motor is visible, with a black cable connected to it. Another black cable runs from the motor area towards the bottom right of the frame. The assembly is placed on a light-colored wooden surface. Two blue text annotations are present: one in the center of the assembly and another pointing to the end of a cable.

Temporarily  
open and route  
cables as shown

From colour sensor  
to port 3

A photograph of a LEGO Technic assembly, likely a motorized vehicle or robot. The assembly is built using white and grey Technic beams and connectors. A grey motor is mounted on the right side, with several black cables connected to it. The assembly is mounted on a black base with two grey wheels. The background is a light-colored wooden surface. A blue text overlay is positioned in the lower-left quadrant of the image.

Replace pin  
and adjust cables  
to clear  
wheel tracks

