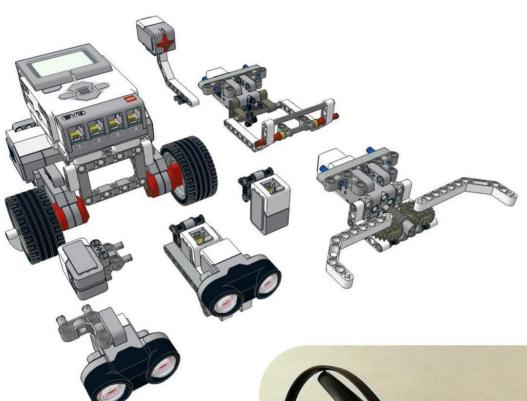
# **Building Instructions**

# RileyRover Base Design and Attachments



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# Sensor and Motor Attachments for the RileyRover Base design



**Ultrasonic Sensor** 



**Colour Sensor** 



**Gyro Sensor** 



Gripper

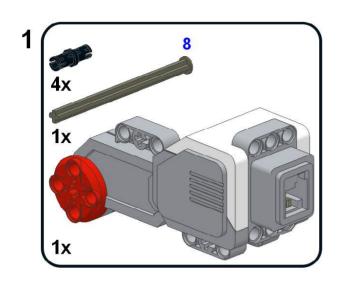


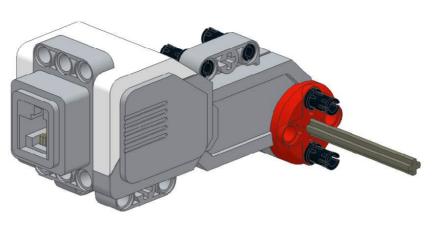
Colour / Ultrasonic combination

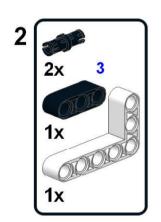


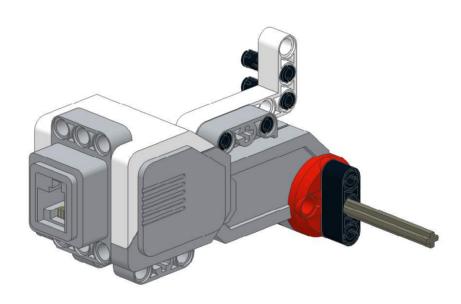
**Cargo Delivery** 

# **Right Motor Assembly**

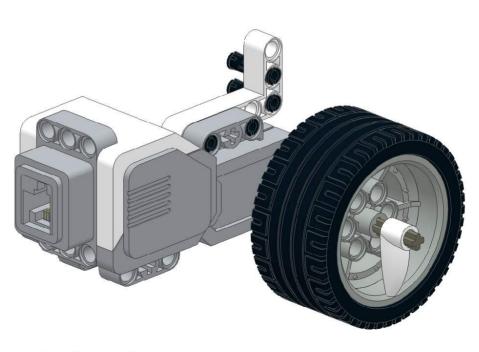






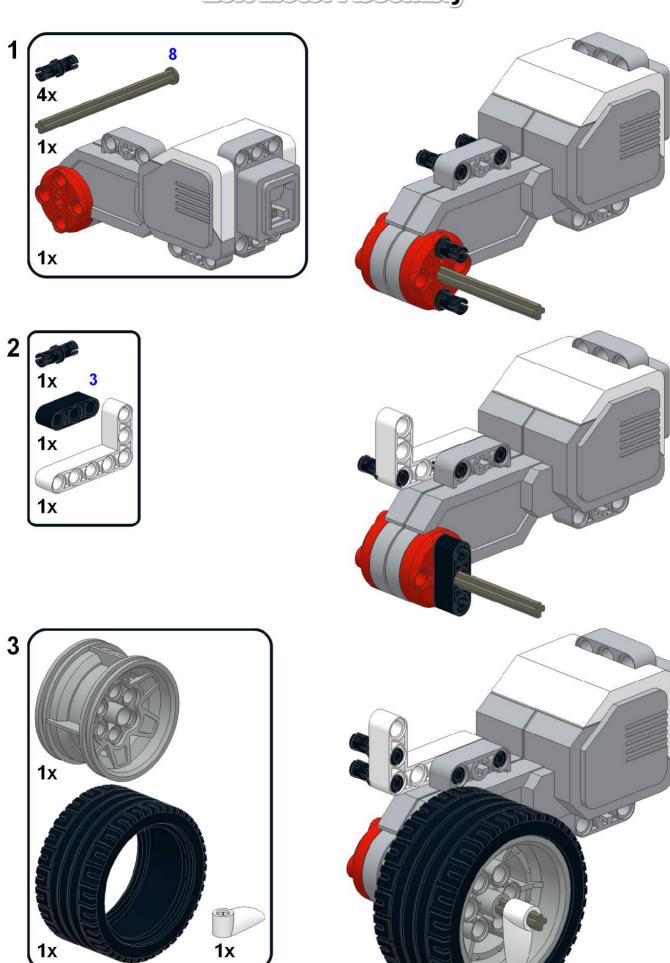






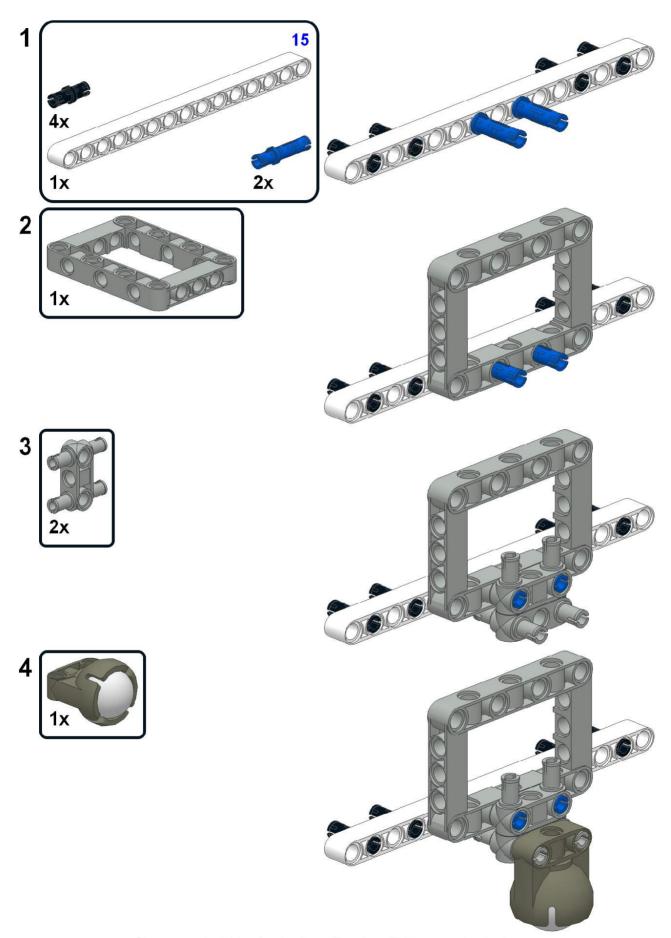
Classroom Activities for the Busy Teacher: EV3 - www.damienkee.com

#### **Left Motor Assembly**

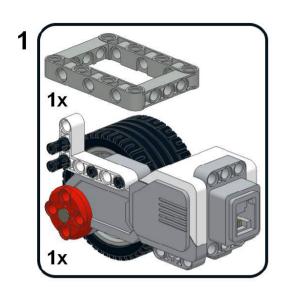


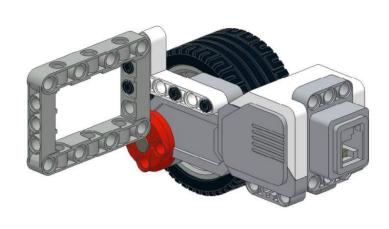
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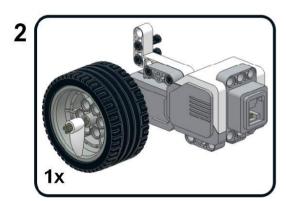
### **Back Castor Assembly**

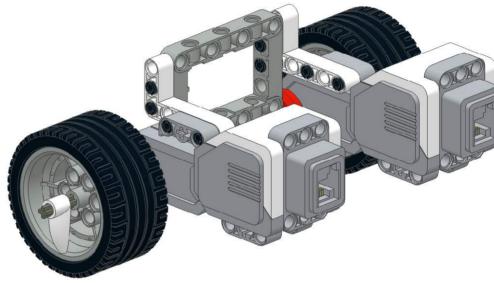


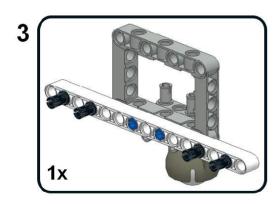
## Assemble Right Motor, Left Motor and Back Castor

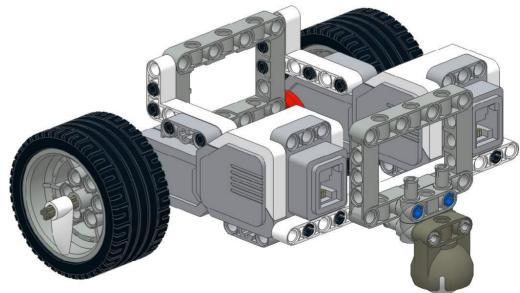






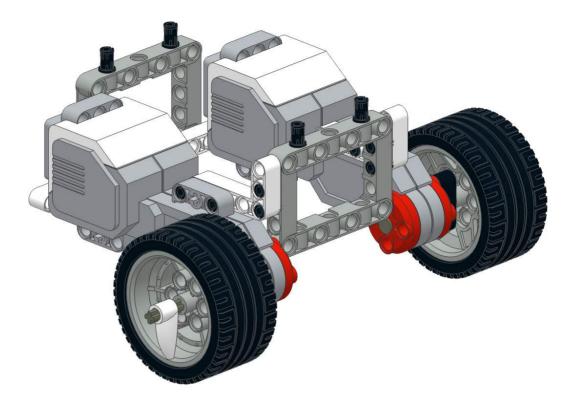


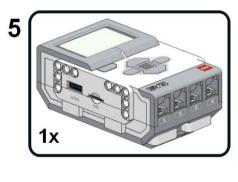


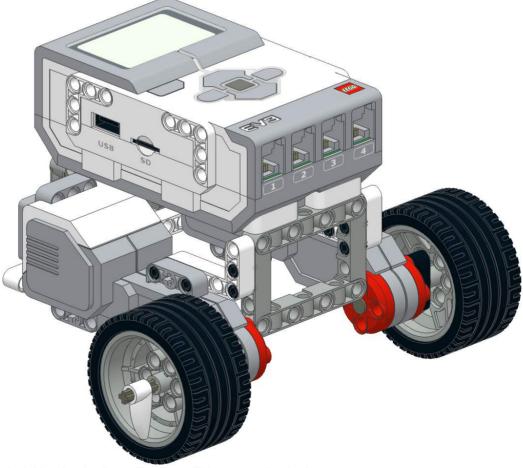


# Turn Base around









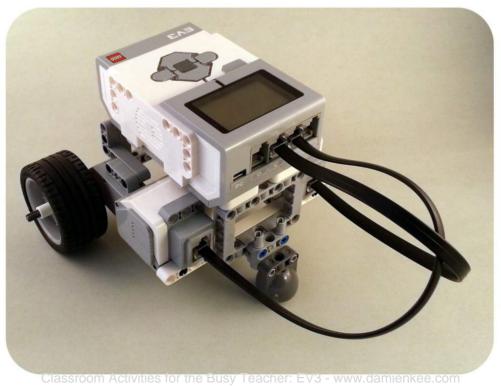
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#### **Connect the Cables**

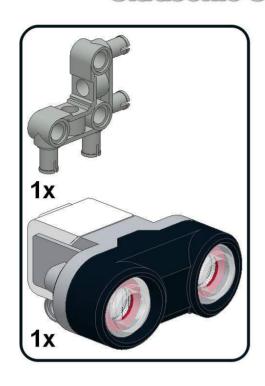
Left Motor: B - Right Motor: C

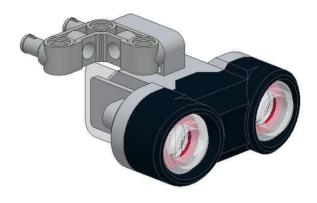
(for this design, the cables will cross over)





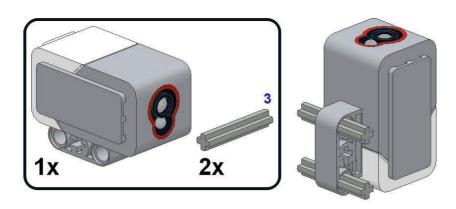
#### **Ultrasonic Sensor Attachment**





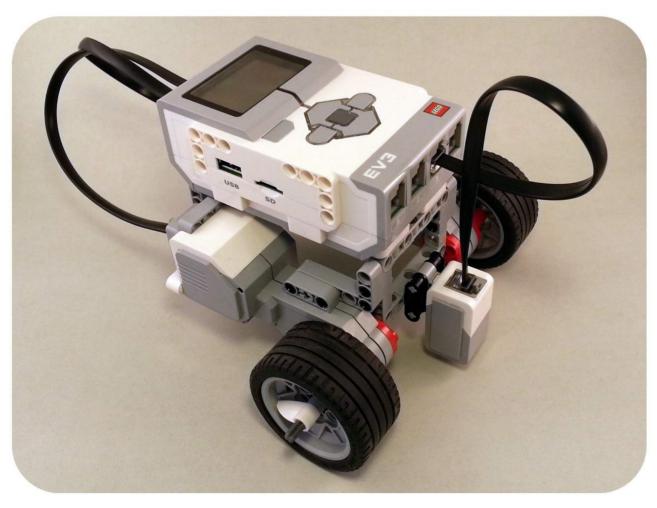


### **Colour Sensor Attachment**

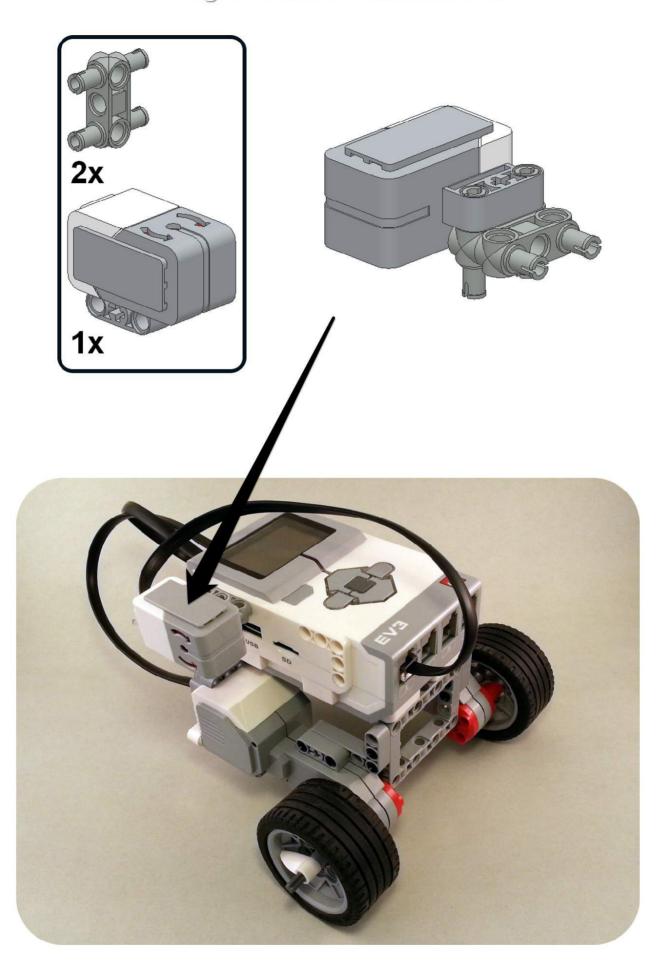




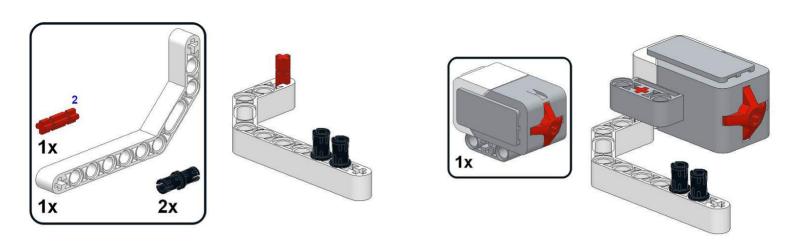


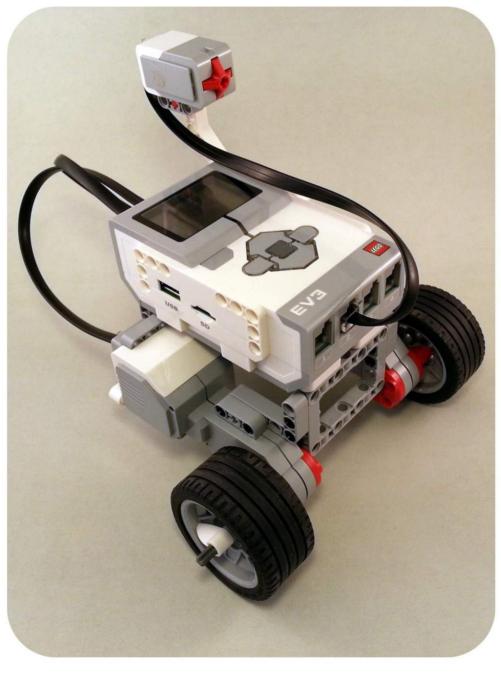


## **Gyro Sensor Attachment**



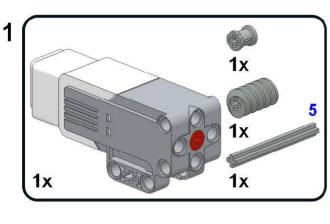
#### **Touch Sensor Attachment**

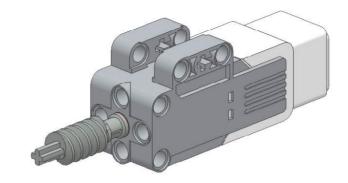


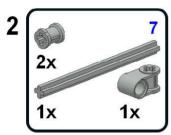


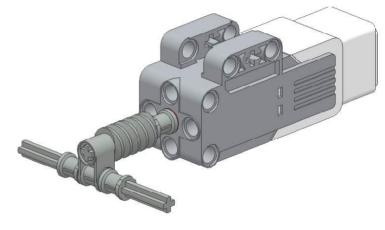
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# **Gripper Attachment**

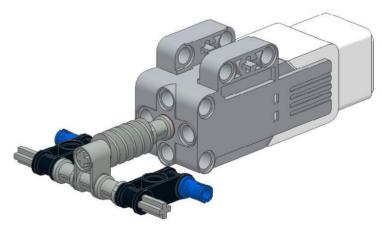


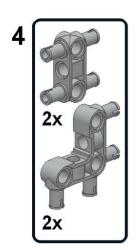


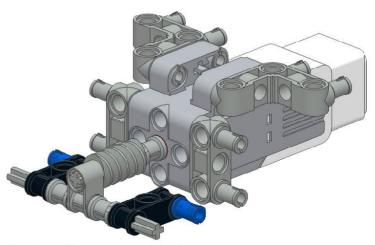


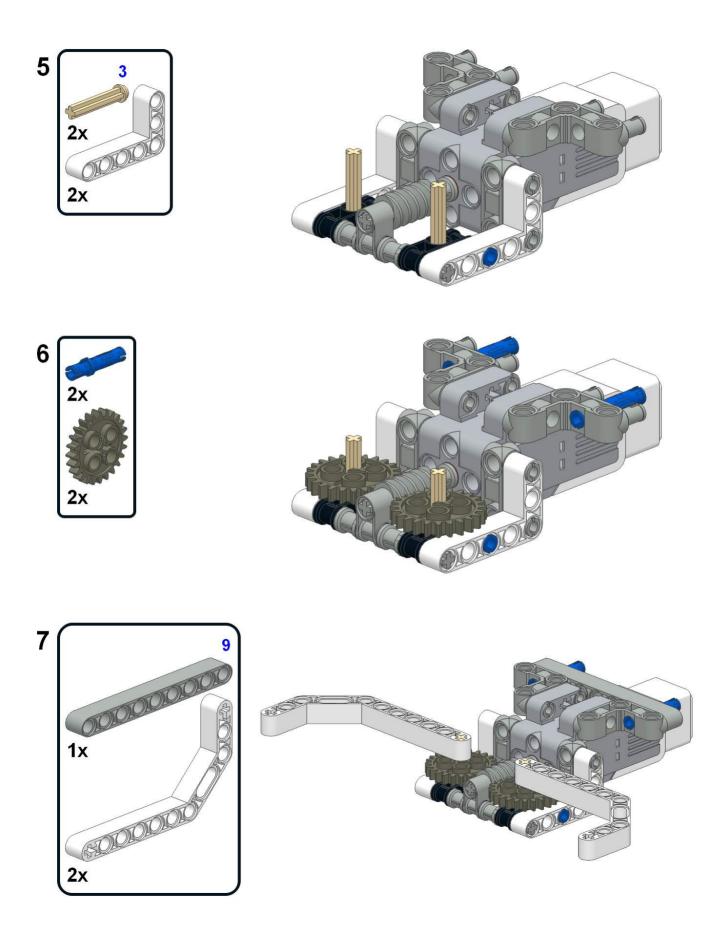




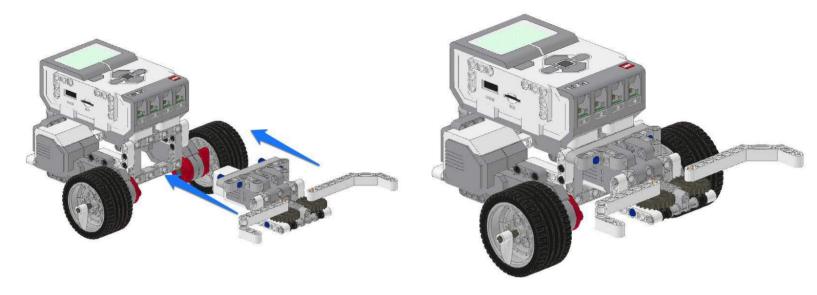


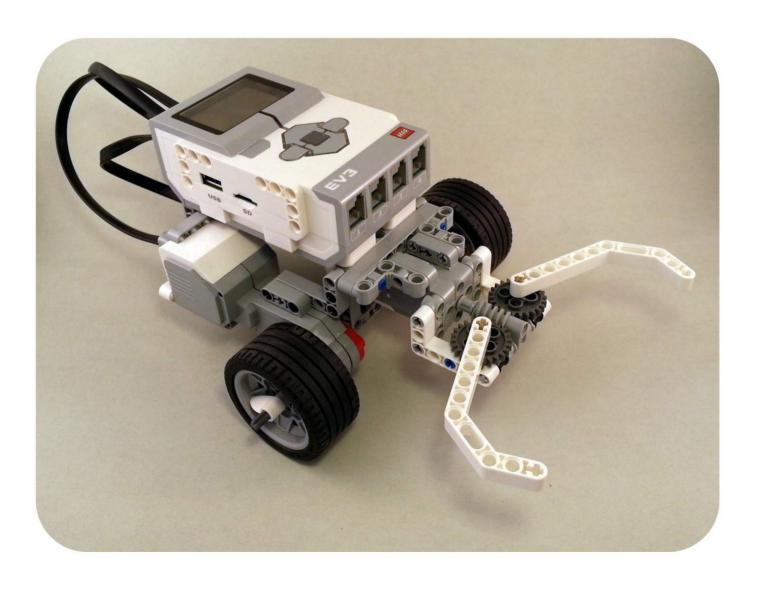




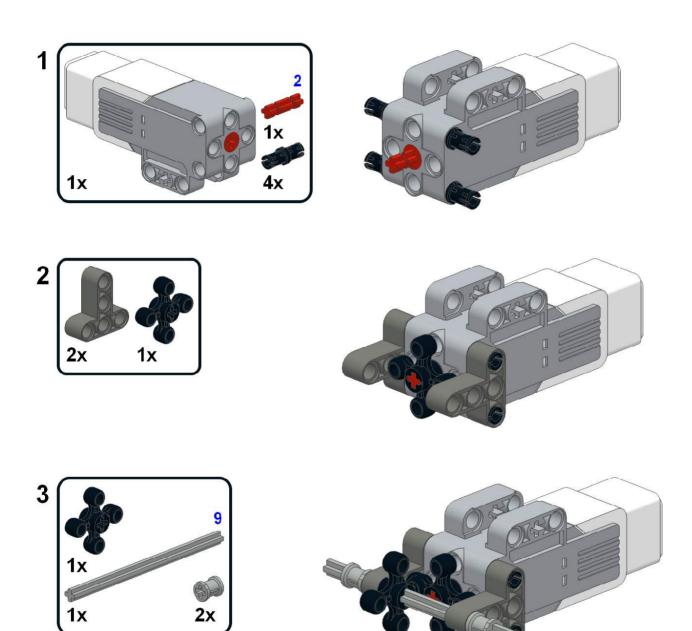


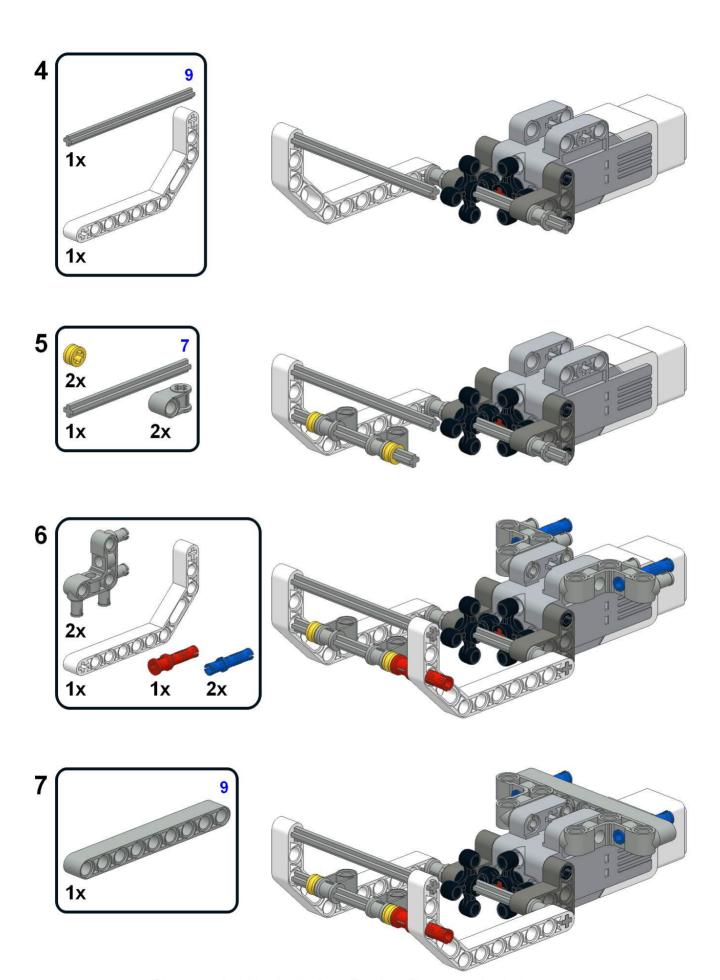
## Attach the Gripper to the front of the Robot





# **Cargo Delivery Attachment**

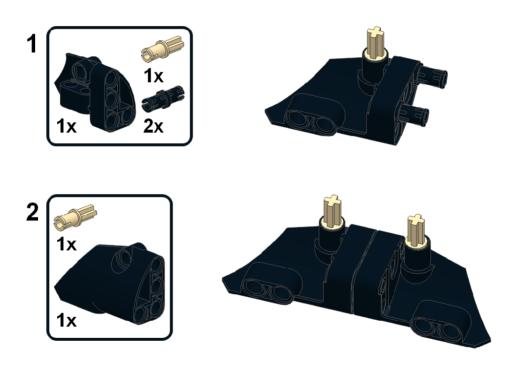




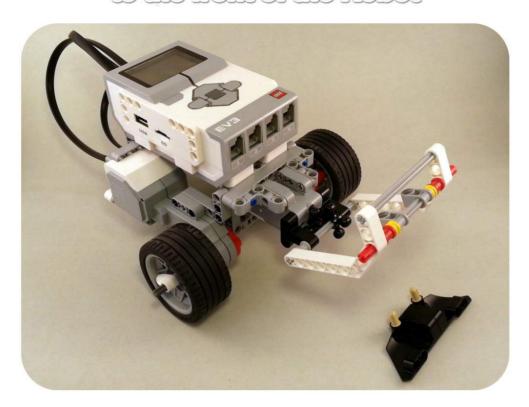
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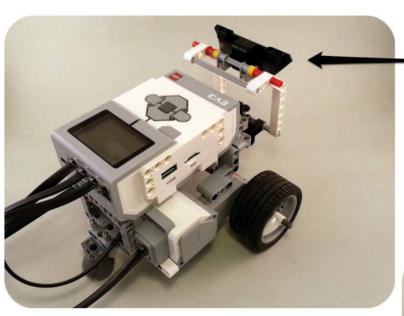
# **Signal Repeater**

#### To be used with the Cargo Delivery Attachment



# Attach the Cargo Delivery Attachment to the front of the Robot

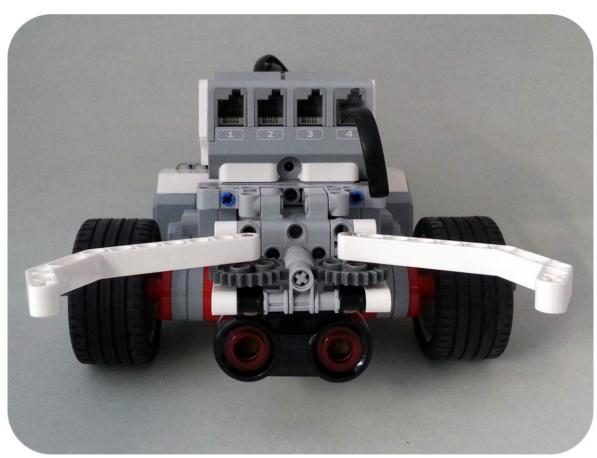


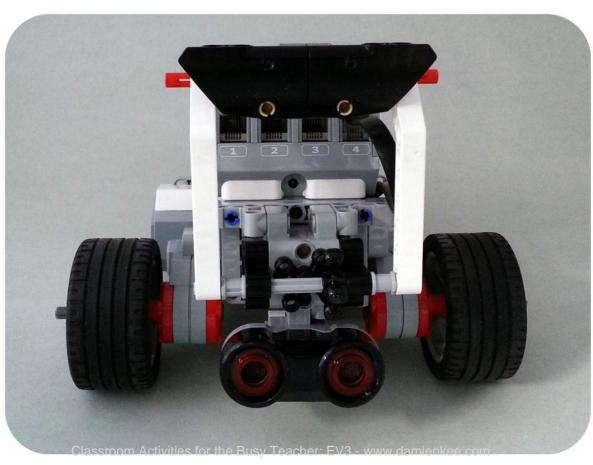


The 'Signal Repeater' will sit loosely in the Cargo Delivery arm when in a raised position. Lower the Cargo Delivery arm to drop the Signal Repeater

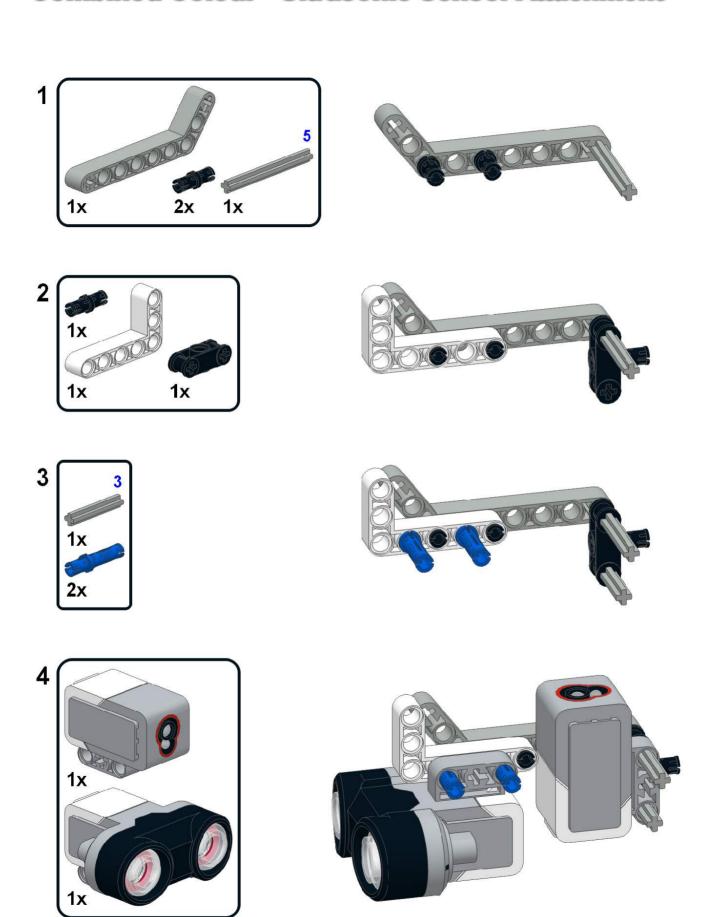


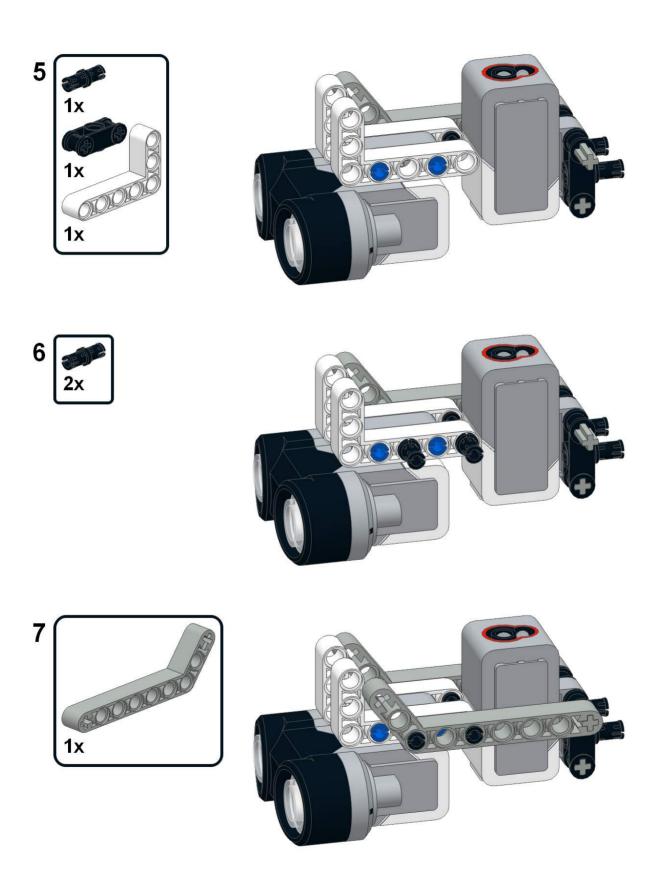
# The Ultrasonic Sensor Attachment can be used with both the Cargo Delivery Attachment and Gripper Attachment





#### **Combined Colour - Ultrasonic Sensor Attachment**





# Snap the combined Colour-Ultrasonic Sensor Attachment to the front of the robot

