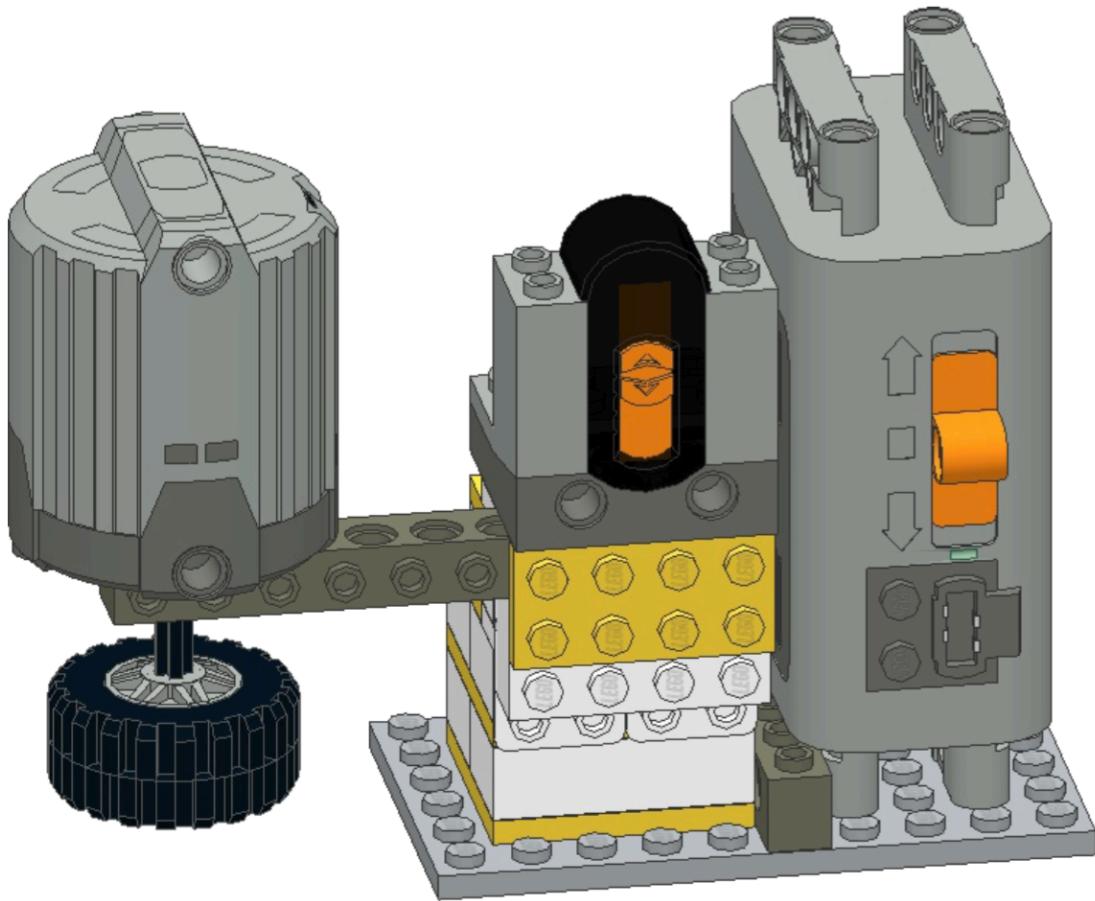
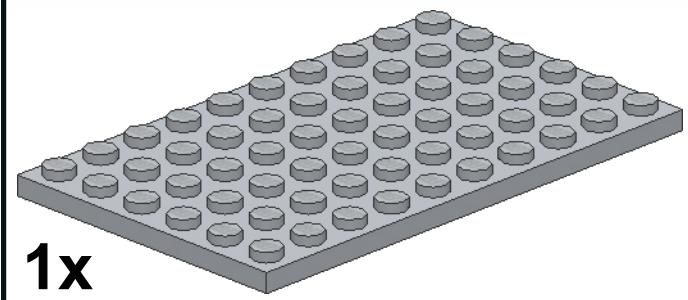


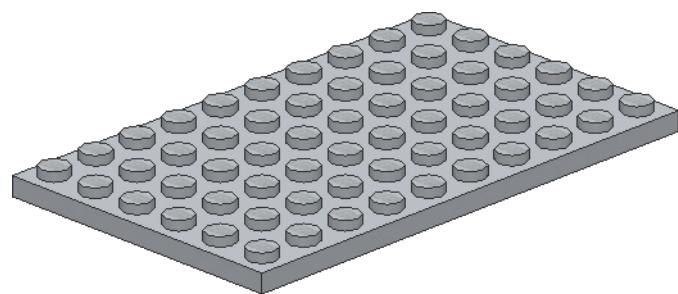
# DIY Rotating Table Instructions



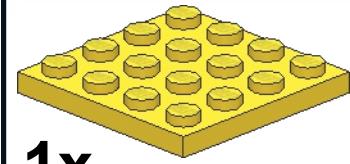
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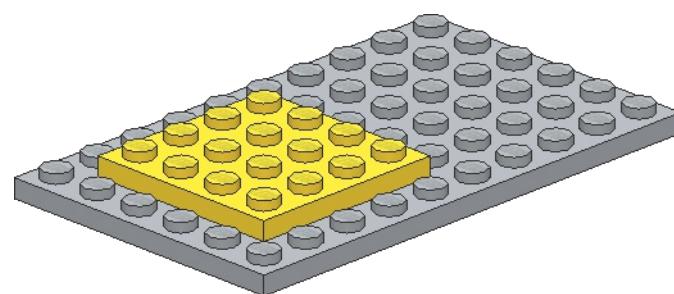
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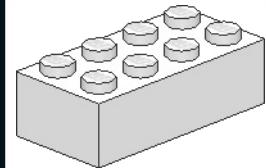
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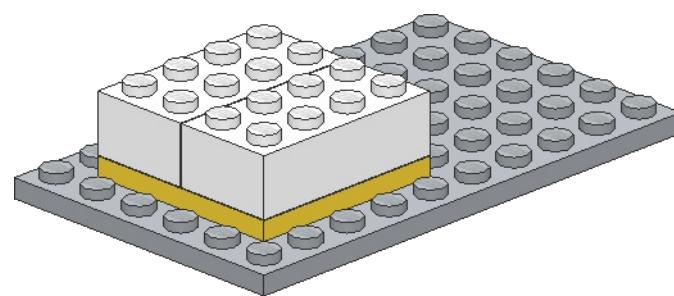
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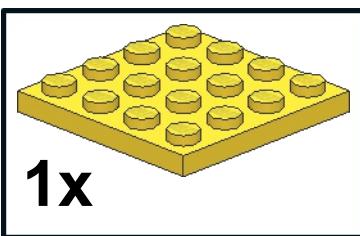
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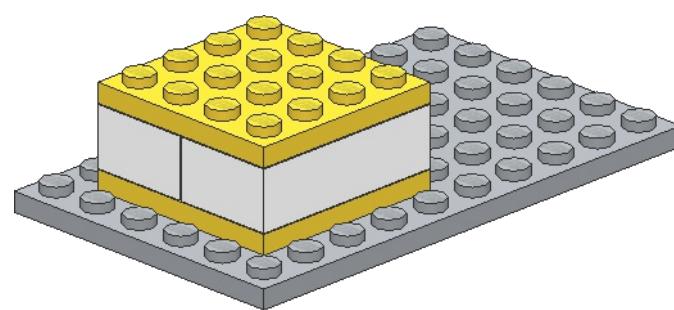
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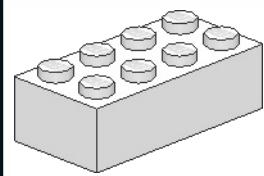
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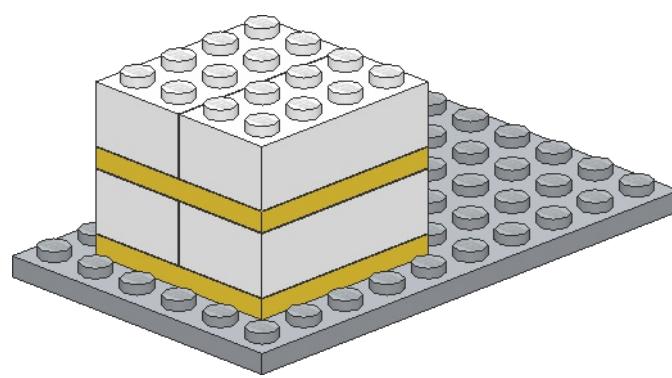
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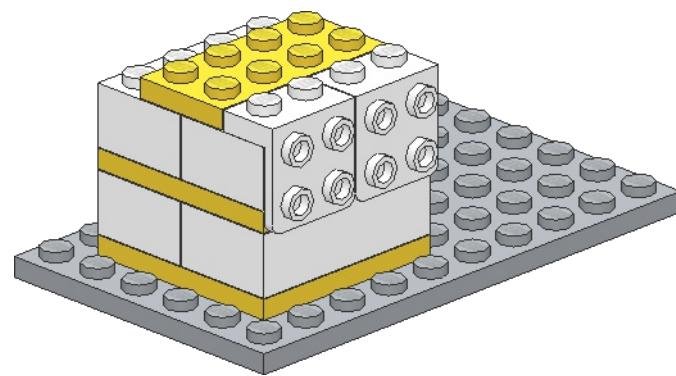
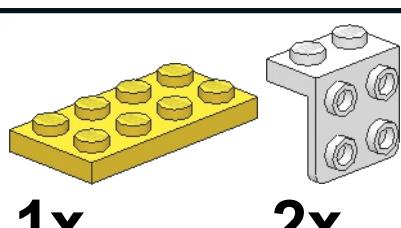
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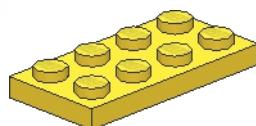
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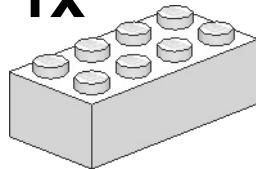
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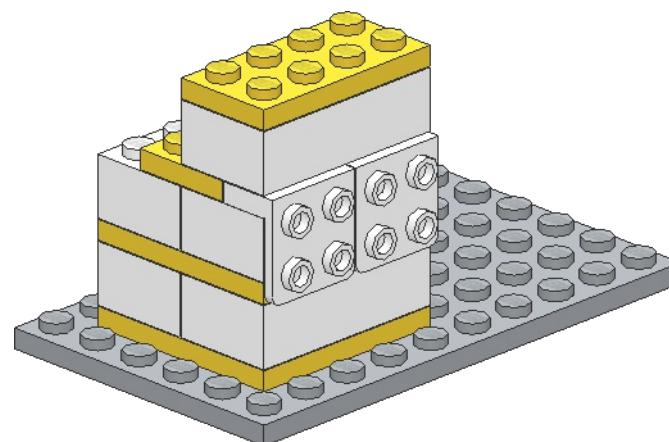
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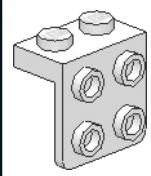
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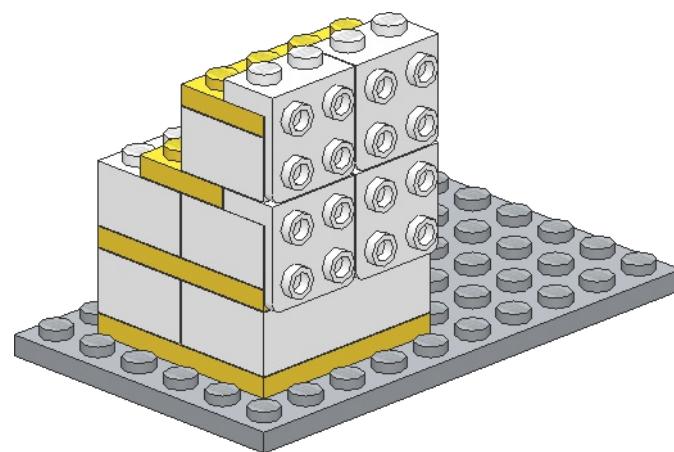
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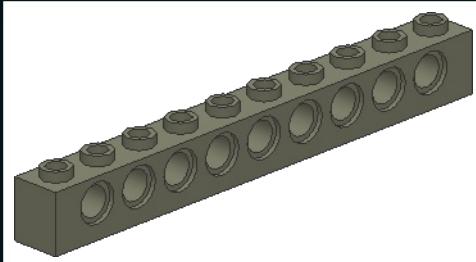
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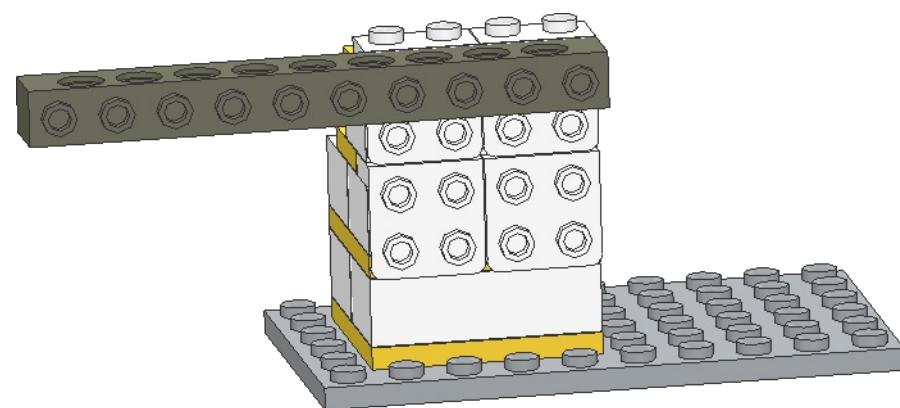
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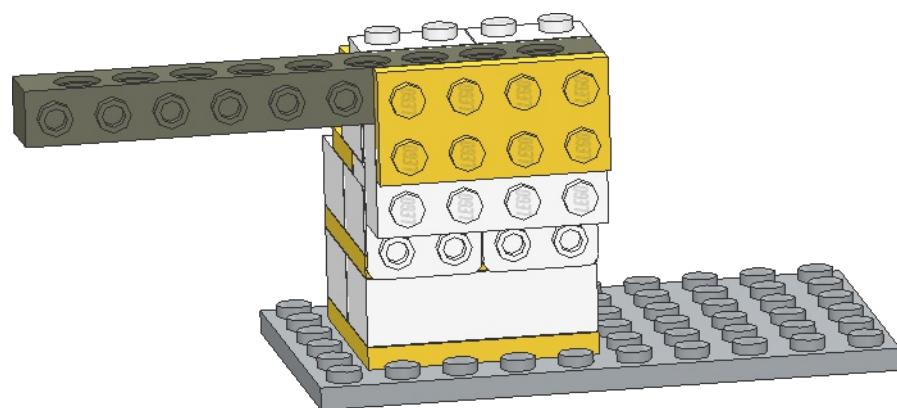
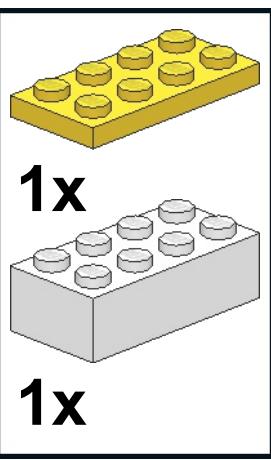
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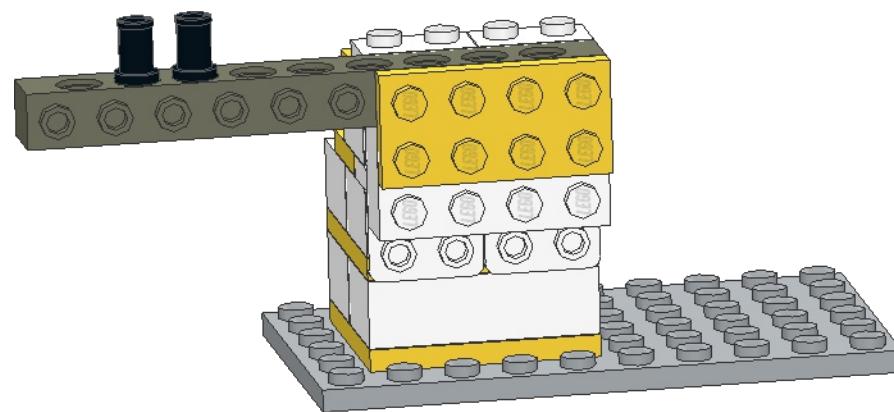
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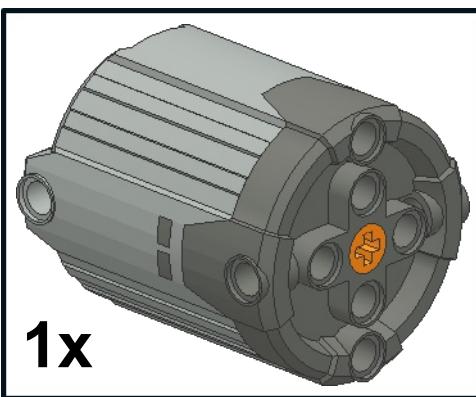
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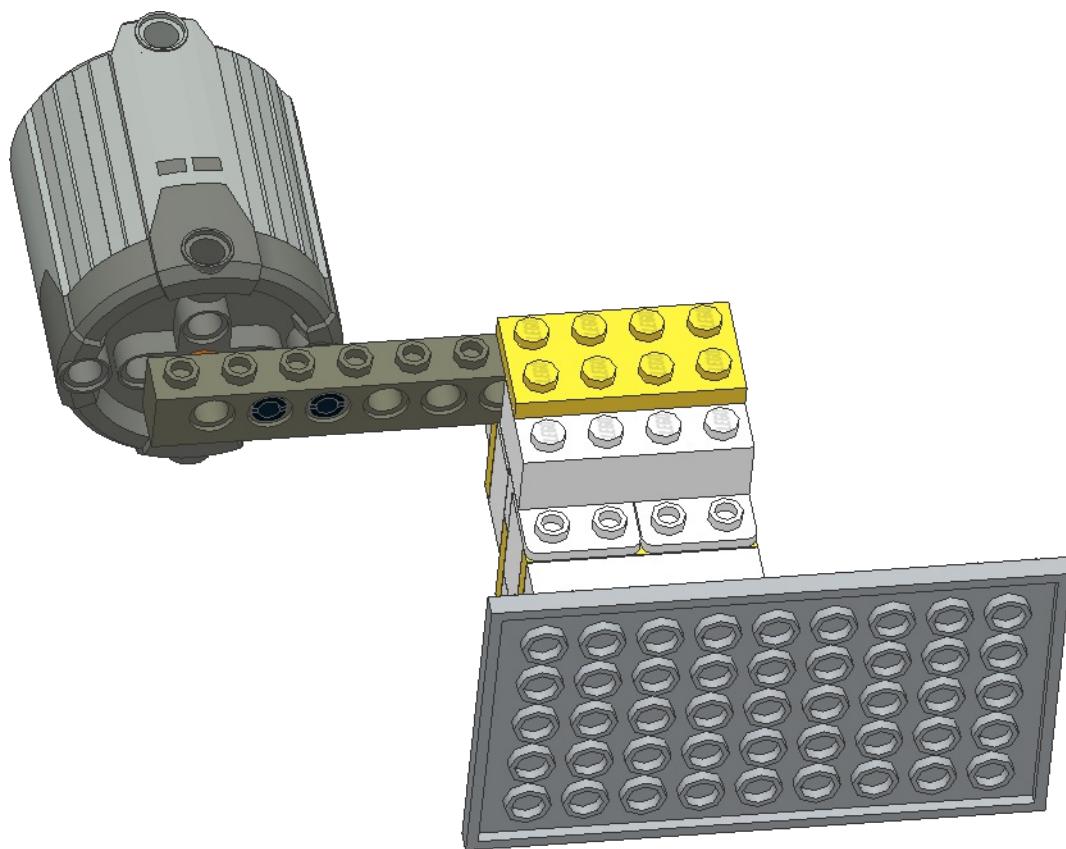
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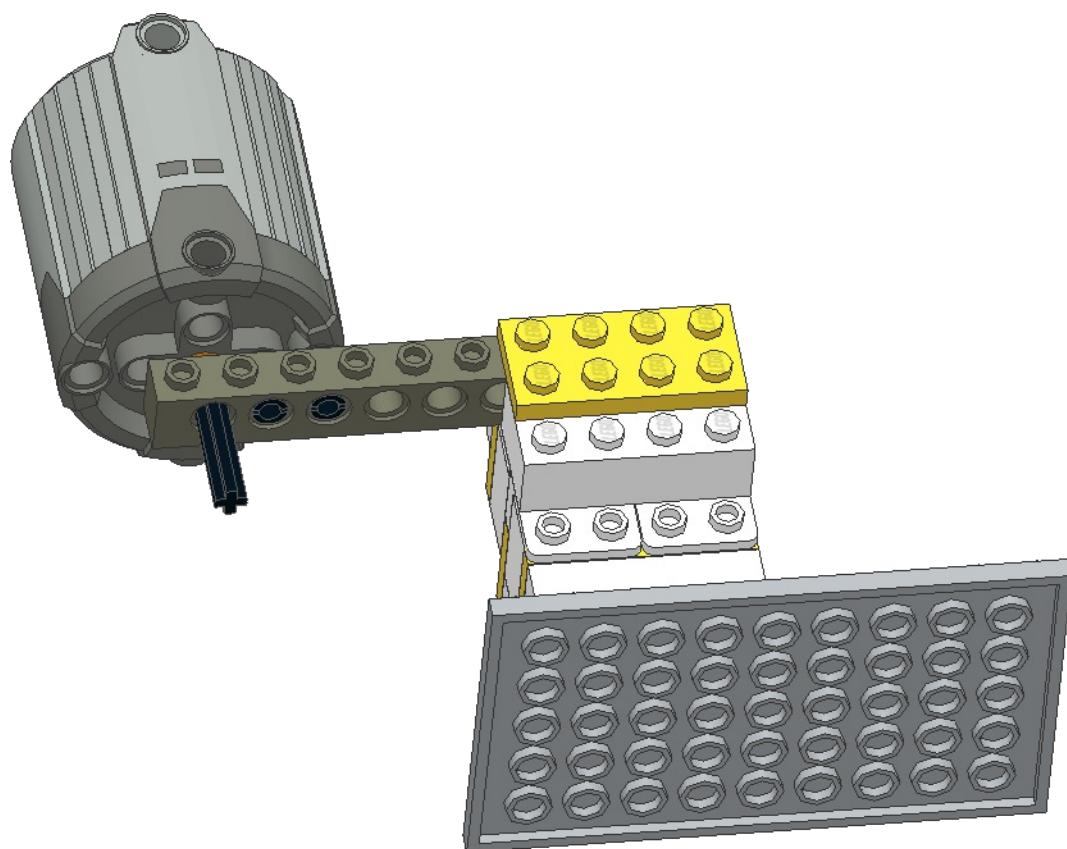
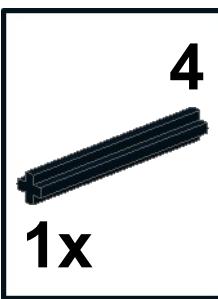
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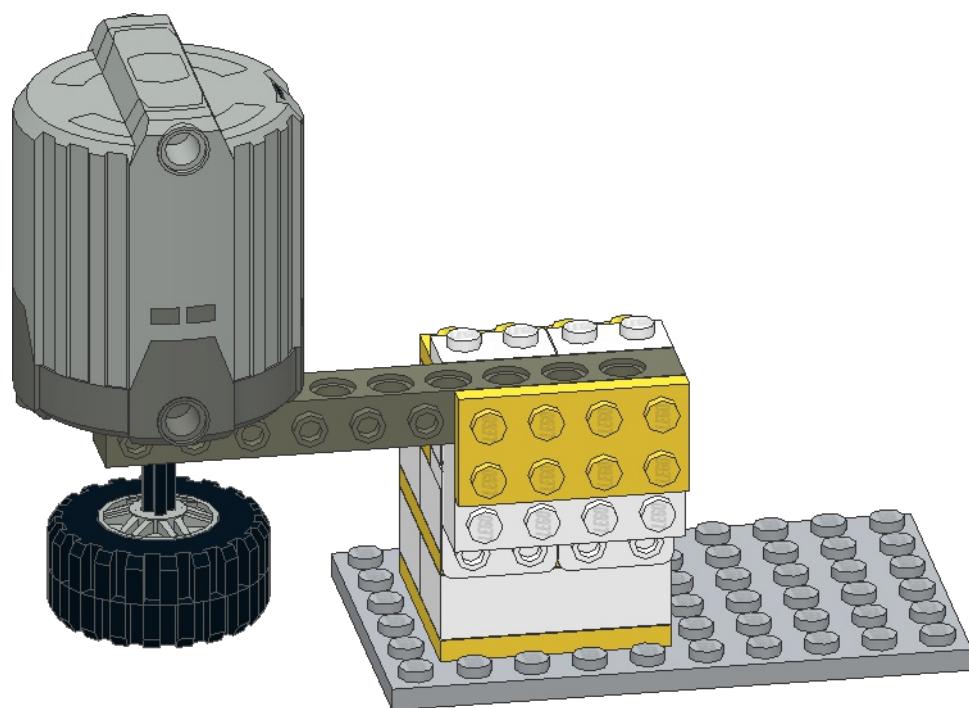
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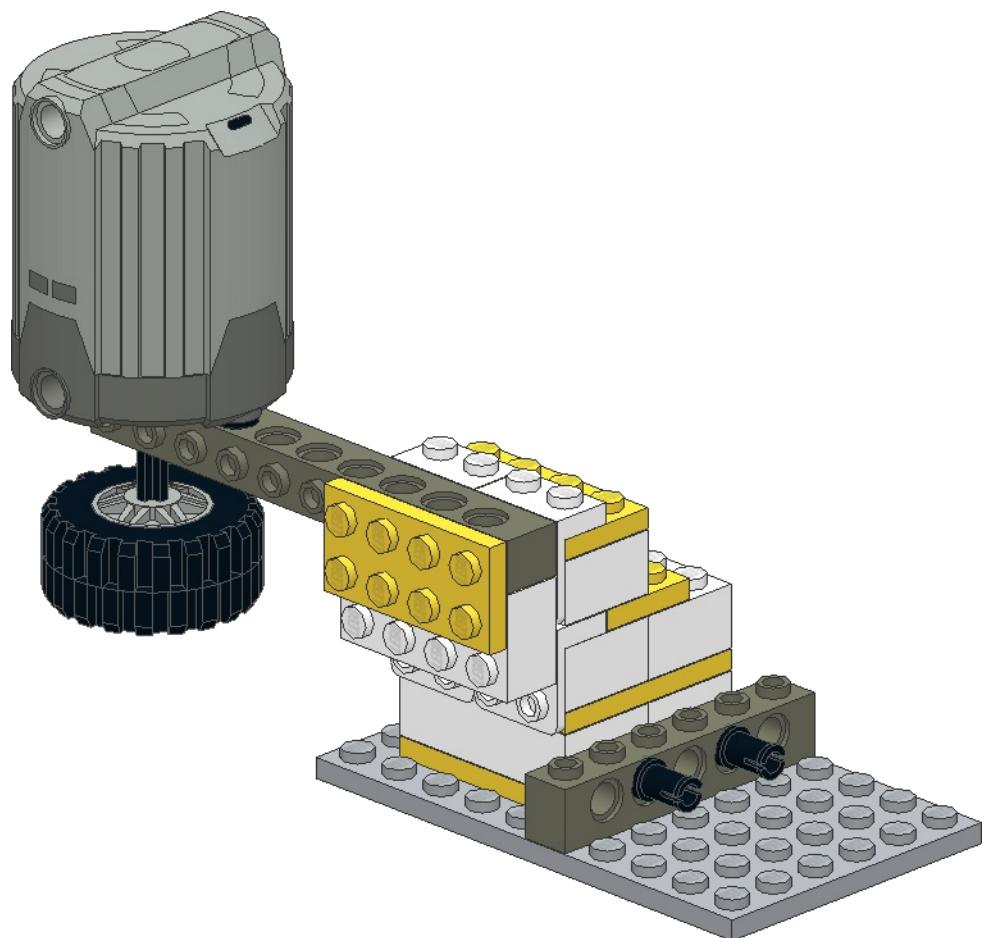
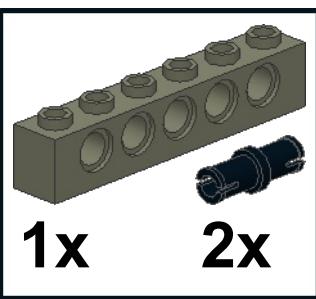
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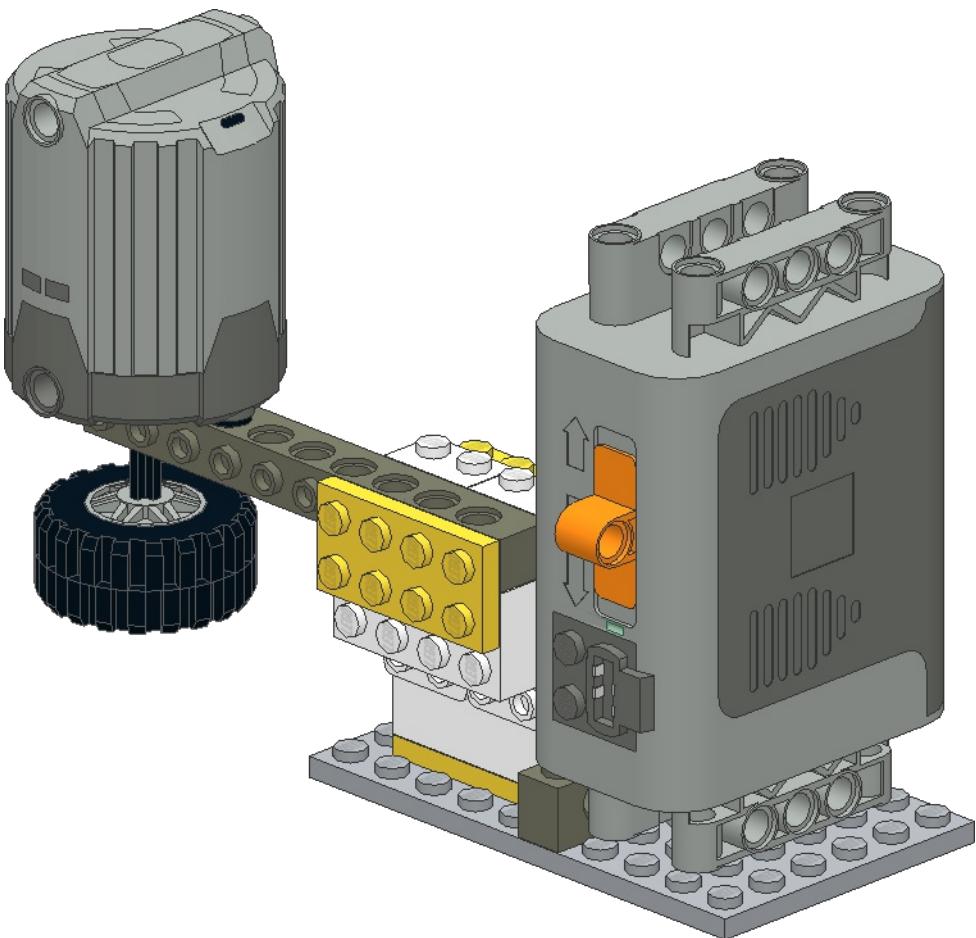
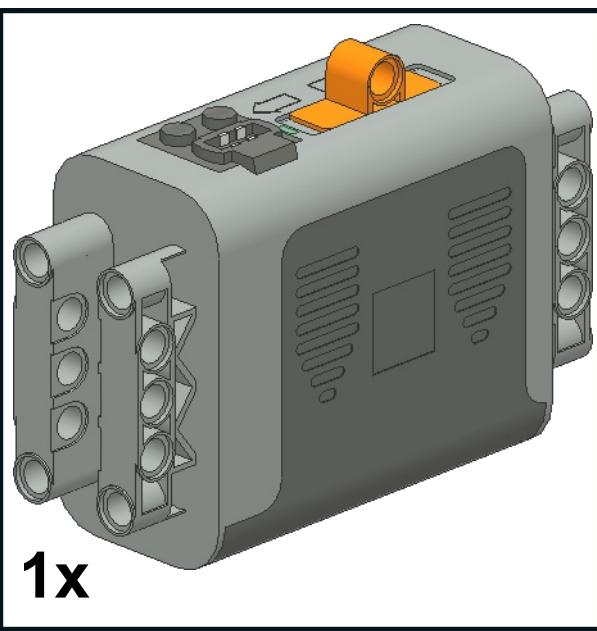
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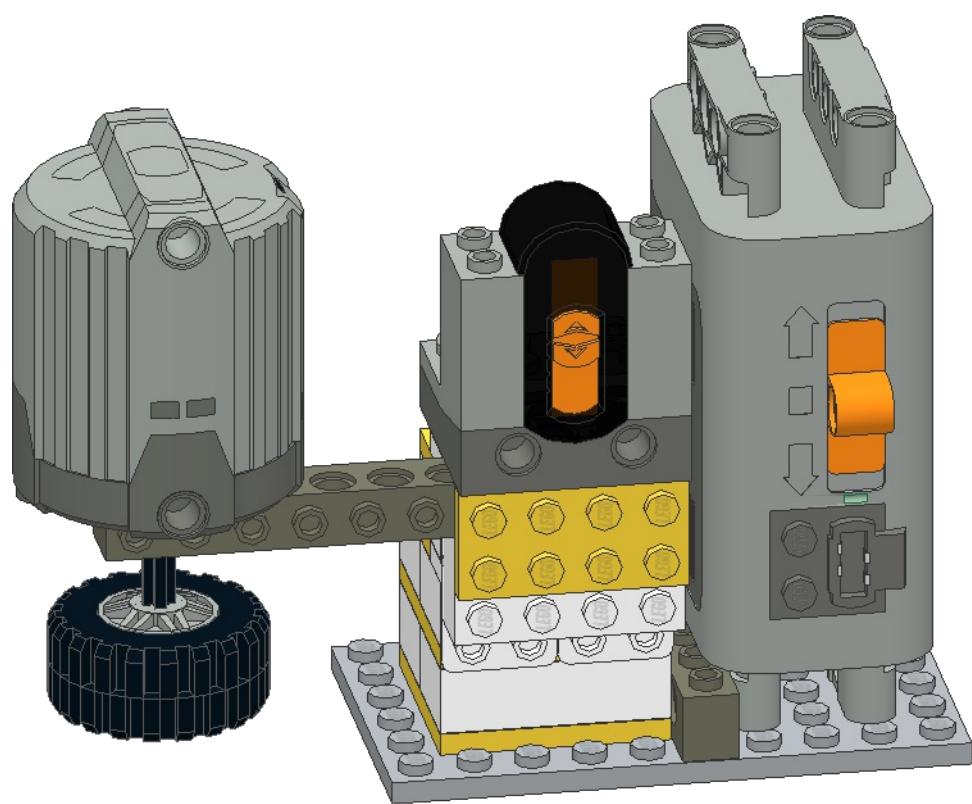
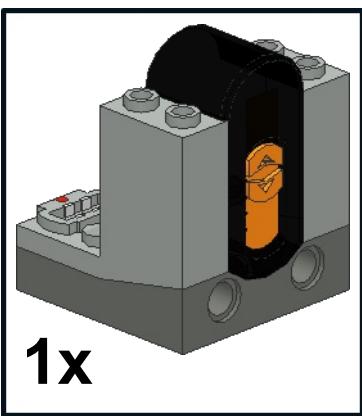
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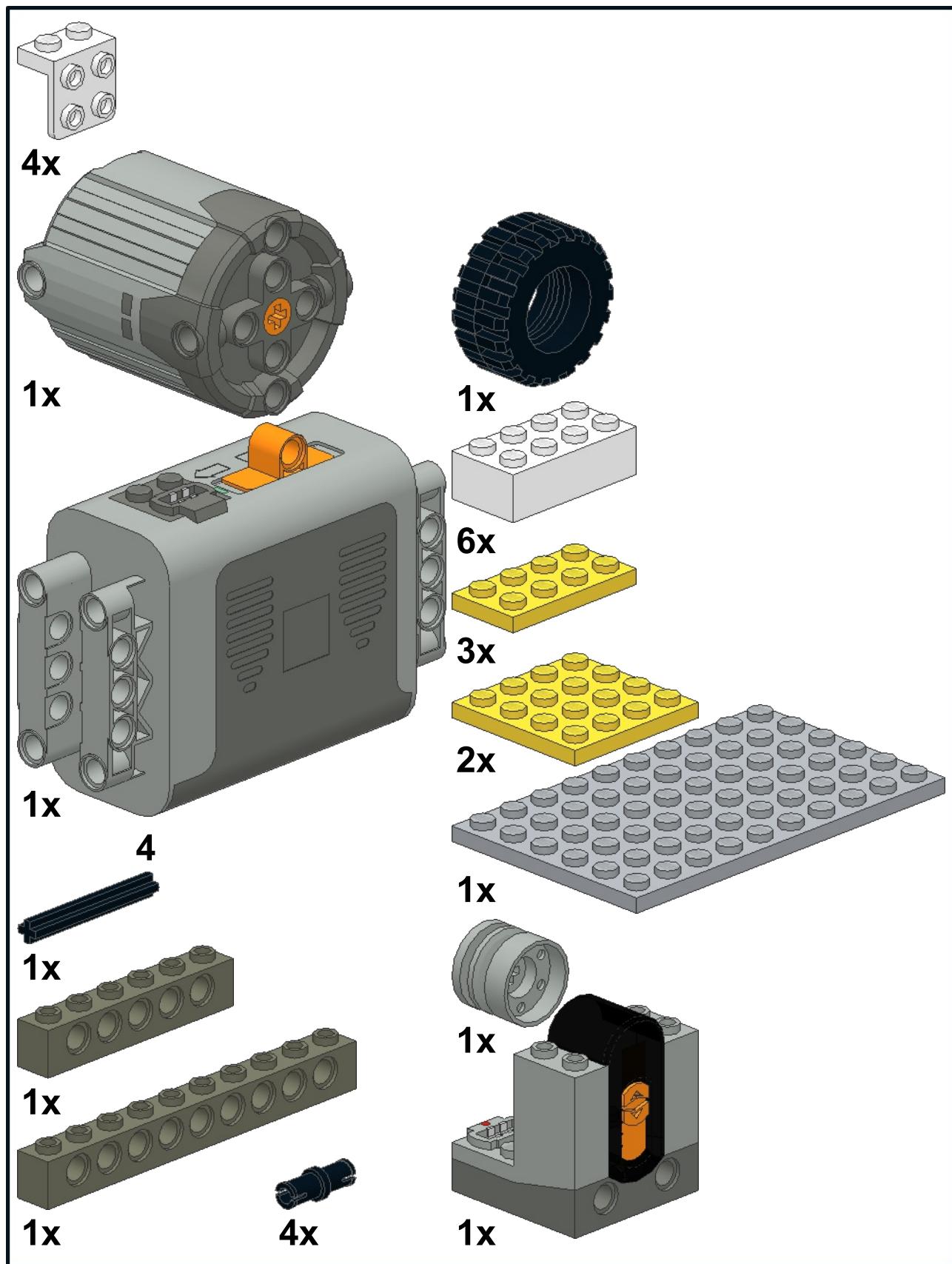


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17



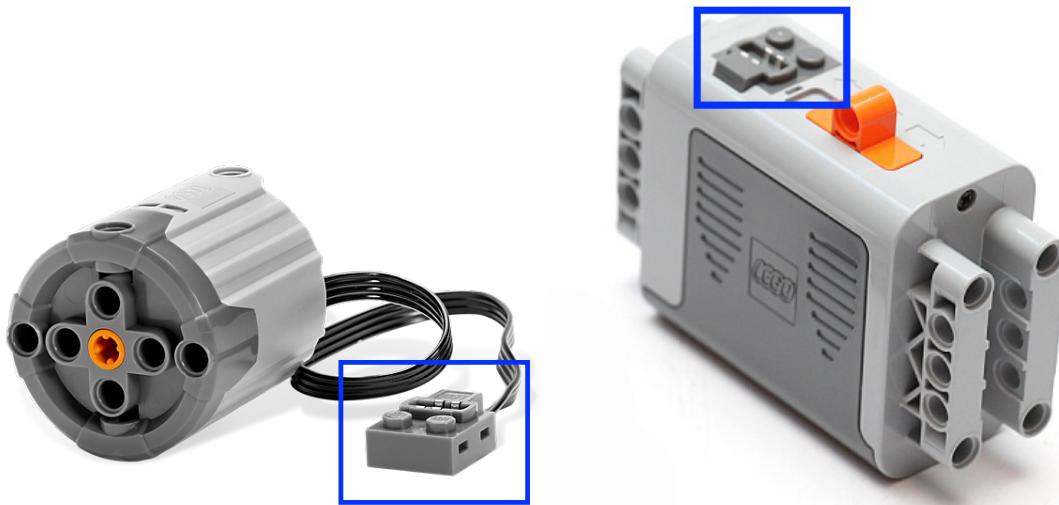


# Setting Up and Using LEGO Power Functions Components

The following 2 pages describe how to set up and use LEGO Power Functions components for the non-variable and variable speed configurations of the DIY Rotating Table.

## Without Variable Speed

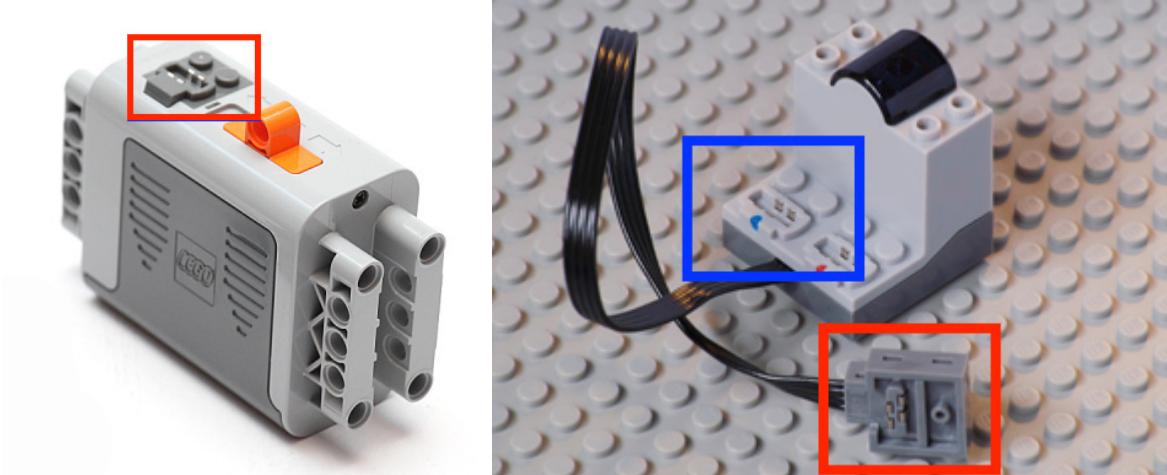
- Attach the end of the wire emanating from the vertically mounted XL Motor to its receptor on the Battery Box (both segments highlighted below).



- To turn on the XL Motor, slide the orange switch on the Battery Box in either direction (return to middle to turn off the XL motor).

## With Variable Speed

- Attach the end of the wire emanating from the IR Receiver to its receptor on the Battery Box (both segments highlighted in red below).
- Attach the end of the wire emanating from the vertically mounted XL Motor to either receptor on the IR Receiver (both segments highlighted in blue below).



- To use the IR Speed Remote Control and IR Receiver, make sure that both components are set to the same number (toggles are highlighted in green below).
- To turn on the XL Motor, slide the orange switch on the Battery Box in either direction (return to middle to turn off the XL motor).
- If the XL Motor is connected to the blue receptor on the IR Receiver, turn the blue dial on the IR Speed Remote Control to change speed. Same applies for the red receptor and dial. Color is denoted by a tick mark.



# Putting Everything Together

*The following 2 pages describes how to combine the OXO turn table and LEGO assembly to create the DIY Rotating Table*

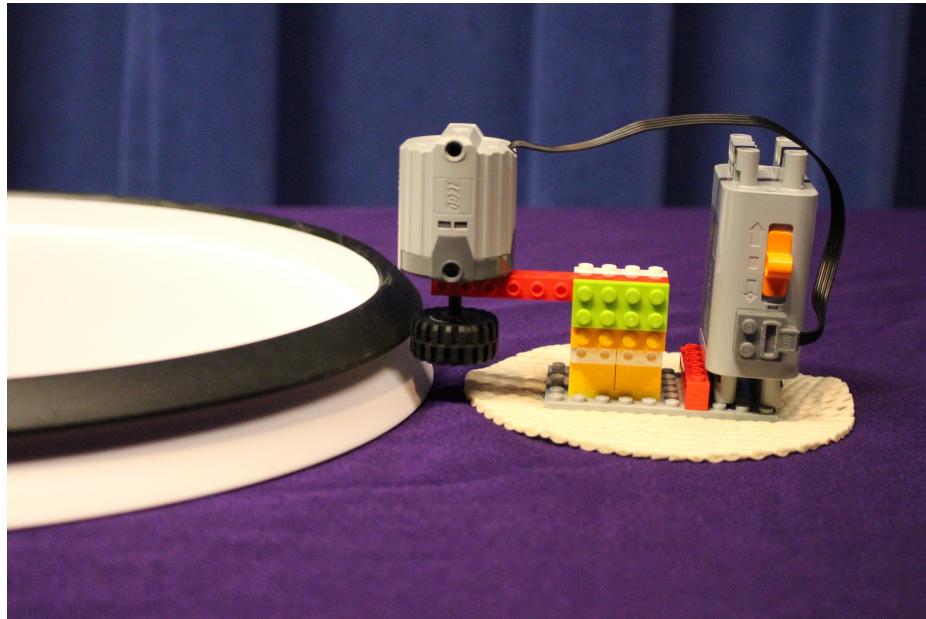
Place the OXO turn table on a level surface



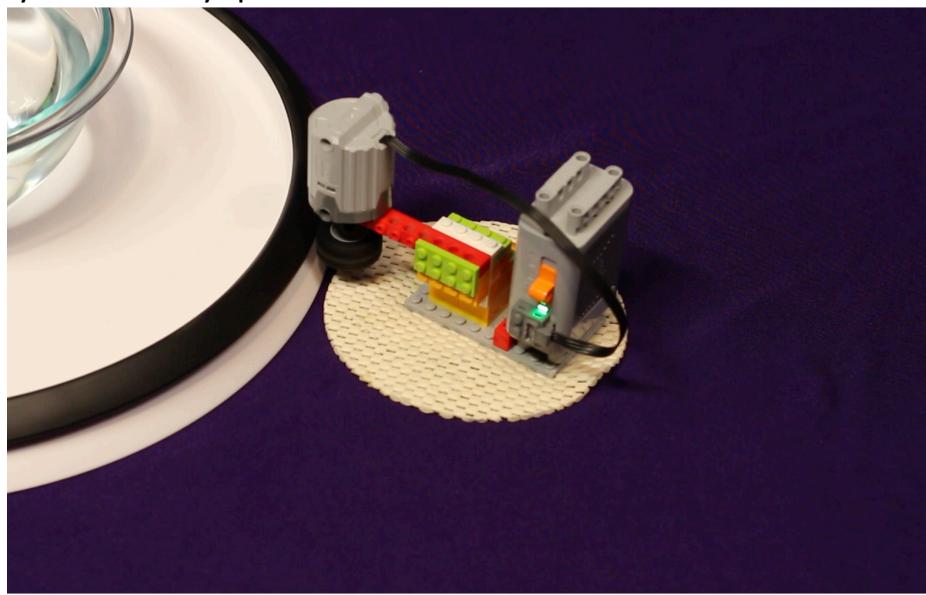
Place a sheet of rubber adjacent to the OXO turn table. The sheet of rubber is intended to keep the LEGO assembly in place (other suitably sticky materials can be used).



Place the LEGO assembly on the sheet of rubber and position the wheel so that it remains in contact with the OXO turn table. Check from the side and ensure that the wheel is pressing only against the black band and not against the white base of the OXO turn table.



The DIY Rotating Table is now ready to use. Switch on the battery pack and have fun! Visit [YouTube Channel Link] or [Website Link] to learn more about the project and the types of experiments that can be performed. Contact [Gmail Address] if you have any questions.



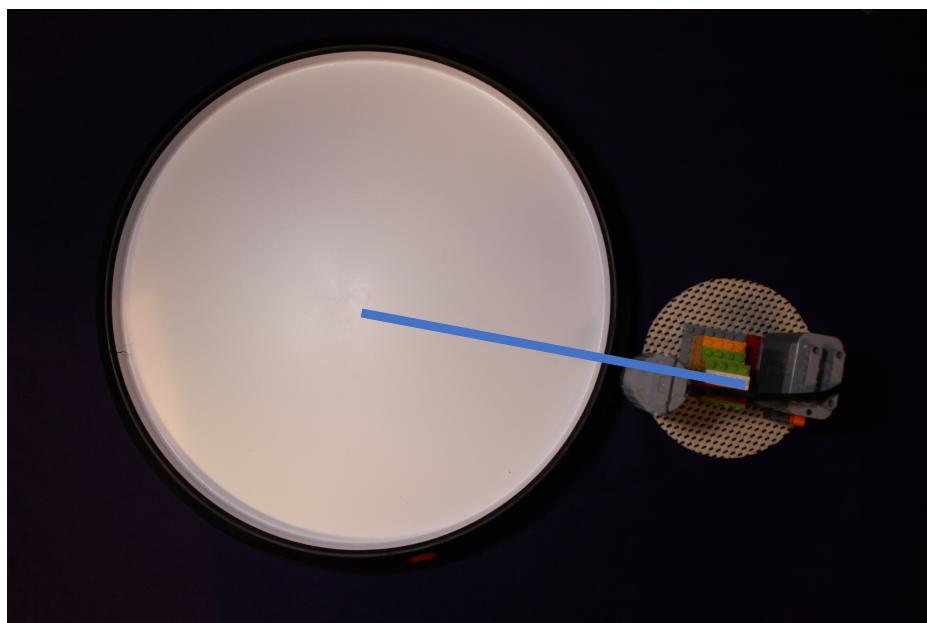
# Troubleshooting

Q: What are the optional components used for?

A: The optional components allow users to switch the speed of the DIY Rotating Table motor as it is running. The LEGO Power Functions IR Receiver and IR Speed Remote Control enable speed of rotation to be incremented along 7 steps. This ability provides the opportunity to study additional aspects of fluid dynamics (i.e. Taylor Columns)

Q: Why does the LEGO assembly keep on losing contact with the OXO turn table?

A: This can occur due to several reasons. To address this, ensure that the LEGO assembly is pressing against the OXO turn table and is held in place by the adjacent sheet of rubber. Position the LEGO assembly such that the beam supporting the motor is pointed roughly to the OXO turn table center. Double check to ensure that the LEGO assembly wheel is only in contact with the OXO turn table black band.



Q: Can I use pieces other than the ones detailed in the instructions?

A: Yes. There are many combinations of LEGO pieces that can be used to achieve the same goal. The design previously described is open for customization and parts can be switched out as appropriate (i.e. replace the current wheel with a larger one to increase speed of rotation).