

# LASER PEGS®

The Ultimate Construction Toy For Kids®

**NATIONAL GEOGRAPHIC**  
**LANDMARKS & ARCHAEOLOGY**

Ages 5 +

30 Models+

ANY CREATION YOU CAN BUILD

**LIGHT UP**

CONSTRUCTION SET INCLUDES:

- 32 Laser Pegs®
- 244 Construction Parts
- 3-D Lite Board®
- Instruction Manual

Requires 3-AA Batteries

Batteries NOT Included

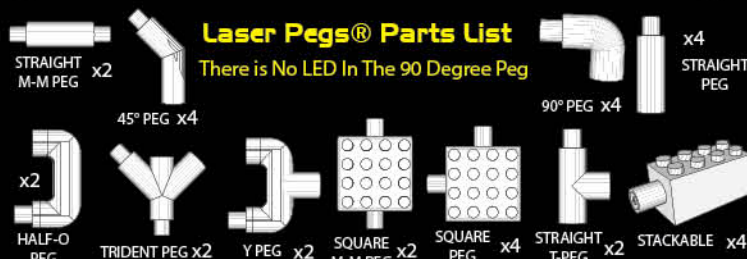
Compatible with other construction kits

EN71, RoHS COMPLIANT

This product complies to all safety requirements of ASTM F 963

## MODEL INSTRUCTIONS

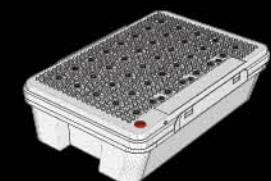
All additional model instructions can be downloaded at [www.LaserPegs.com](http://www.LaserPegs.com)



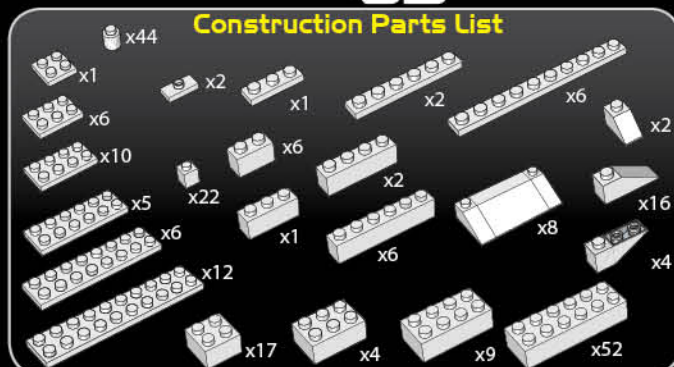
**Color Code** Each Laser Peg® is color coded on the circuit board inside each shape. There is No LED In The 90 Degree Peg.



Laser Pegs® link that allows you to connect to other construction kits.



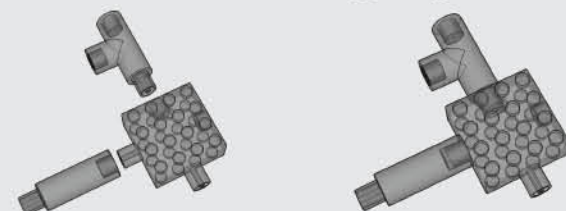
3D LITE BOARD®



[www.LaserPegs.com](http://www.LaserPegs.com)

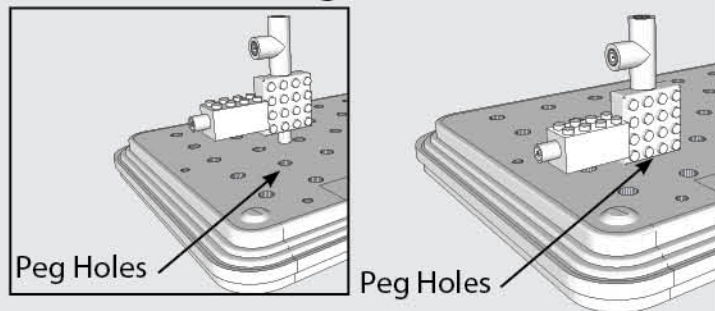
This manual is copyright and cannot be reproduced or used online without Laser Pegs® Ventures LLC permission. © Copyright 2014. All Rights Reserved US Patent #7,731,558 Additional Global & Multiple Patents Pending. Laser Pegs® Ventures LLC. 8304 Consumer Ct Sarasota FL. 34240. Contact: Support@LaserPegs.com

## Connecting Pegs



To construct with Laser Pegs®, slide two pieces together to form a connection. Slide each piece on and off smoothly. The 90° Pegs are essential to construction but they DO NOT LIGHT UP.

## Connect Laser Pegs® to 3D Lite Board®

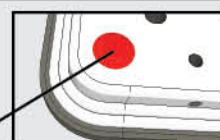


## Press button to turn on/off

Push button to cycle through 4 different light settings. SOUND/ON/FLASH/FLASH FASTER

**WARNING: STROBE LIGHTS MAY CAUSE SEIZURES**

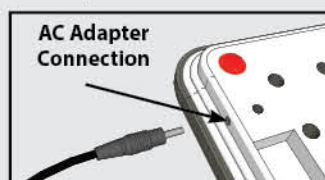
Power Button



## Connecting an AC Adapter

Plug AC Adapter Plug into the SIDE of the 3D Lite Board®.

\*AC Adapter sold separately.



Remove all batteries from Laser Pegs® 3D Lite Board® power base before using 5-volt AC adapter.

\*To avoid short-circuits, keep metal objects and other unauthorized materials from obstructing the peg holes.

NEVER place AC Adapter Plug into top Peg Holes

Never connect more than 200 Laser Pegs® when using a 5-volt (2000mA) AC Adapter.

The AC Adapter and the 3D Lite Board® are to be regularly examined for damage to the cord, plug, enclosure and other parts, and in the event of such damage, they must not be used until the damage has been repaired.

## Battery Compartment

Batteries NOT Included

Battery Compartment Requires (3AA) Batteries

Place batteries in the correct position when using.

## Replacing Batteries

1. Remove the three (3) screws and the Battery Compartment Cover.
2. Place three AA batteries in the correct position - as displayed inside the 3D Lite Board®. Batteries are to be inserted with the correct polarity.
3. Replace the three (3) screws and the Battery Compartment Cover.
4. Push RED button to turn on!
5. Do not mix old and new batteries.
6. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium, NiMH) batteries!
7. Exhausted batteries are to be removed from the power base.
8. Never connect more than 200 Laser Pegs®
9. Non-rechargeable batteries are not to be recharged.
10. Rechargeable batteries are only to be recharged under adult supervision.
11. Rechargeable batteries are to be removed from the toy before being recharged.
12. The supply terminals are not to be short-circuited.
13. Batteries should be recycled or disposed of as per state and local guidelines.
14. DO NOT THROW BATTERIES INTO FIRE!

## Power Button

4 light settings.

Press power button to change light setting.

SOUND/ON/FLASH/FLASH FASTER

## 3D Lite Board®

## Peg Holes

Construction Kit Compatible Studs

## AC Adapter

INPUT is on the SIDE of 3D Lite Board®.

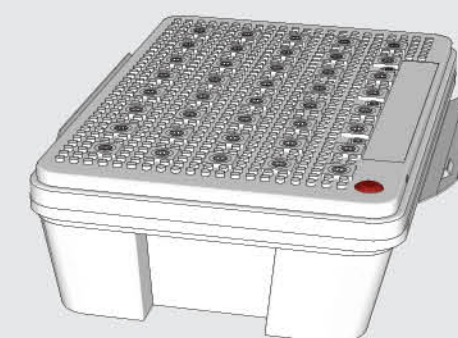
## Battery Compartment

Requires (3AA) Batteries

### Environmental Phenomena

\* The unit may malfunction if subjected to radio-frequency interference. It SHOULD revert to normal operation when the interference stops. If not, it may become necessary to turn the power off and back on, or remove and reinstall the batteries.

\* In the unlikely event of an electrostatic discharge, the unit may malfunction and lose memory, requiring the user to reset the device by removing and reinstalling the batteries.



## Tote Box

Designed for storage of Laser Pegs® parts.

Remove the three Phillips head screws with a 4mm screw driver.

## Battery Compartment Cover

DO NOT SUBMERGE IN WATER

**WARNING!** Each Laser Peg® draws current from the batteries. Therefore, the more pegs you use, the quicker you will deplete your battery power! As the power weakens, the current will slowly fall and some Laser Pegs® will illuminate (typically the reds and yellows) and some won't. When the Laser Pegs® dim the Laser Pegs® are not broken, they just need stronger batteries or an AC Adapter. You have 3 simple options...

1. Use a 5-volt AC Adapter--available from [www.LaserPegs.com](http://www.LaserPegs.com)
2. Change the batteries.
3. Use high quality batteries. They will last a little longer, but they will still deplete rapidly the more laser pegs you connect!



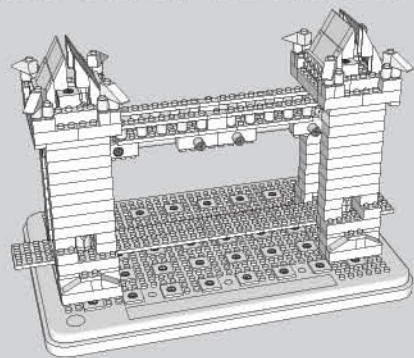
TOWER BRIDGE OF LONDON: An estimated 40,000 people traverse this famous London landmark every day. It is named for the Tower of London fortress, which is located close to the bridge on the north bank of the River Thames.



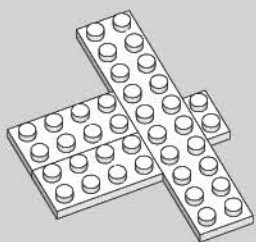
## TOWER BRIDGE OF LONDON

Model  
Difficulty  
Level

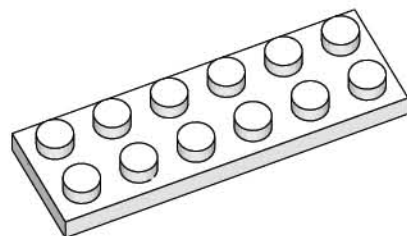
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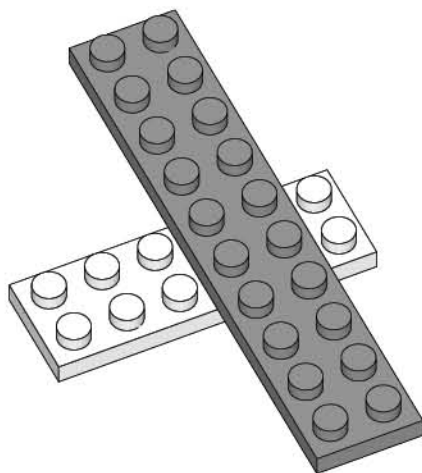
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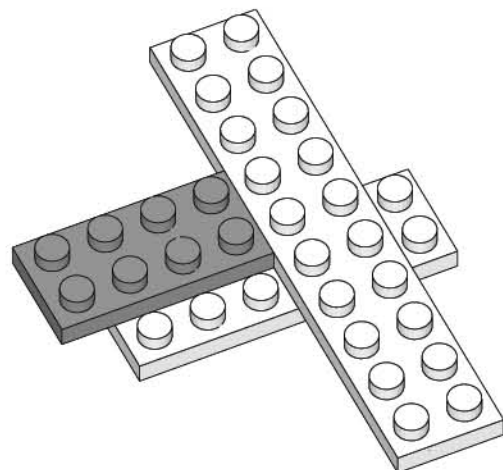
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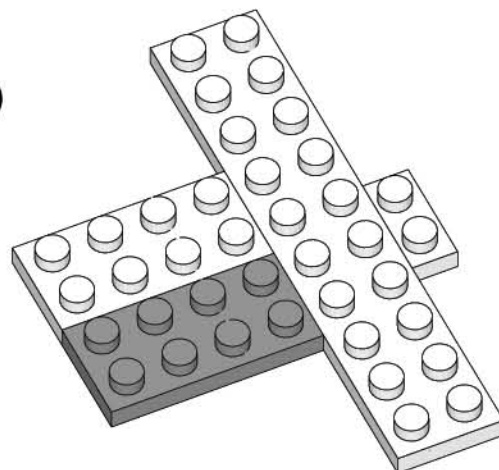
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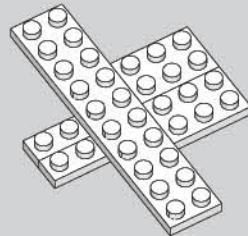
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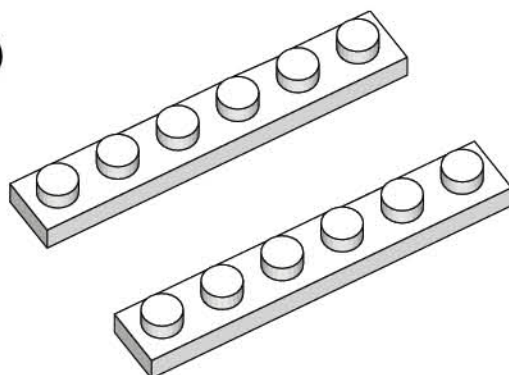
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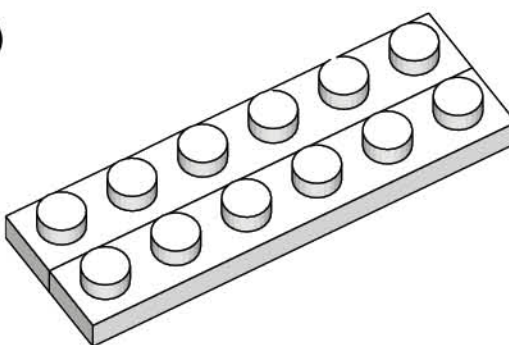
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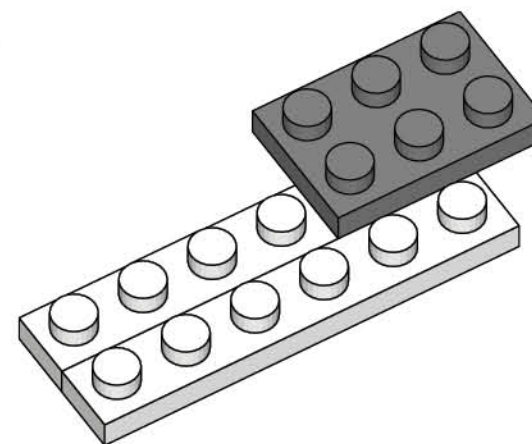
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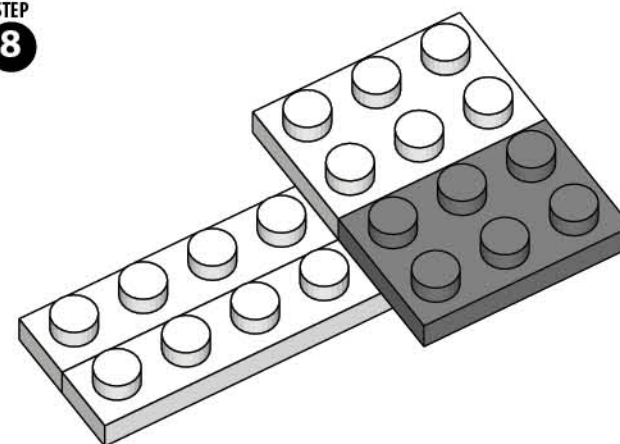
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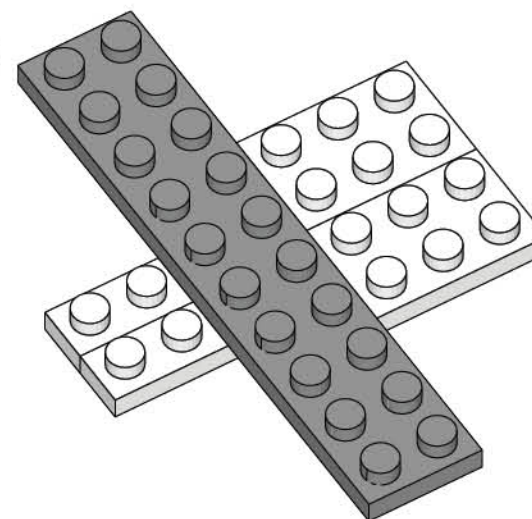
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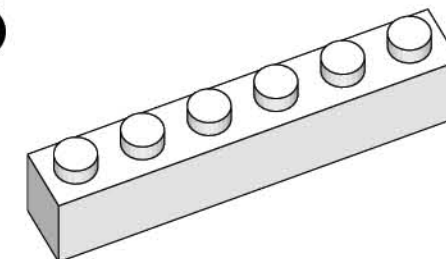
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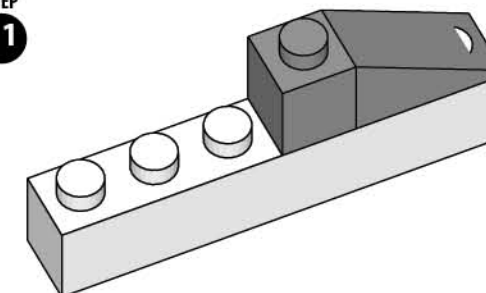
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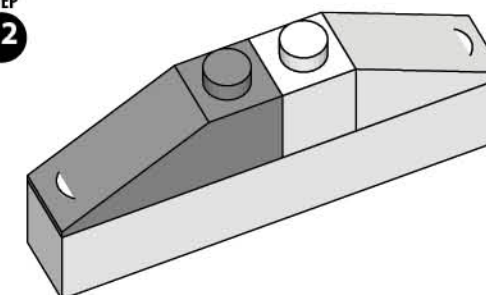
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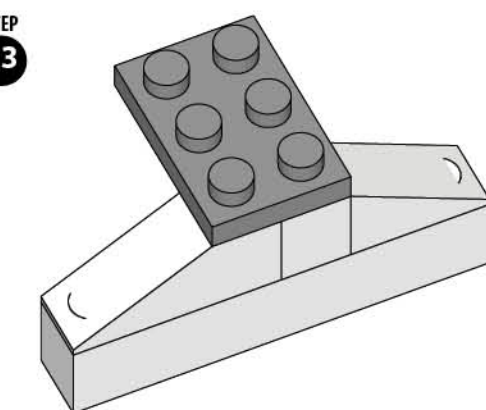
STEP  
11



STEP  
12

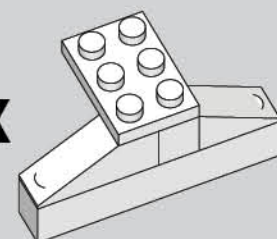


STEP  
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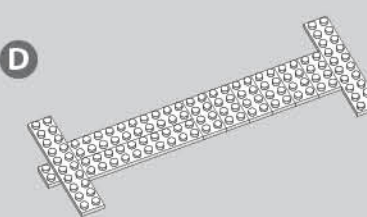


C

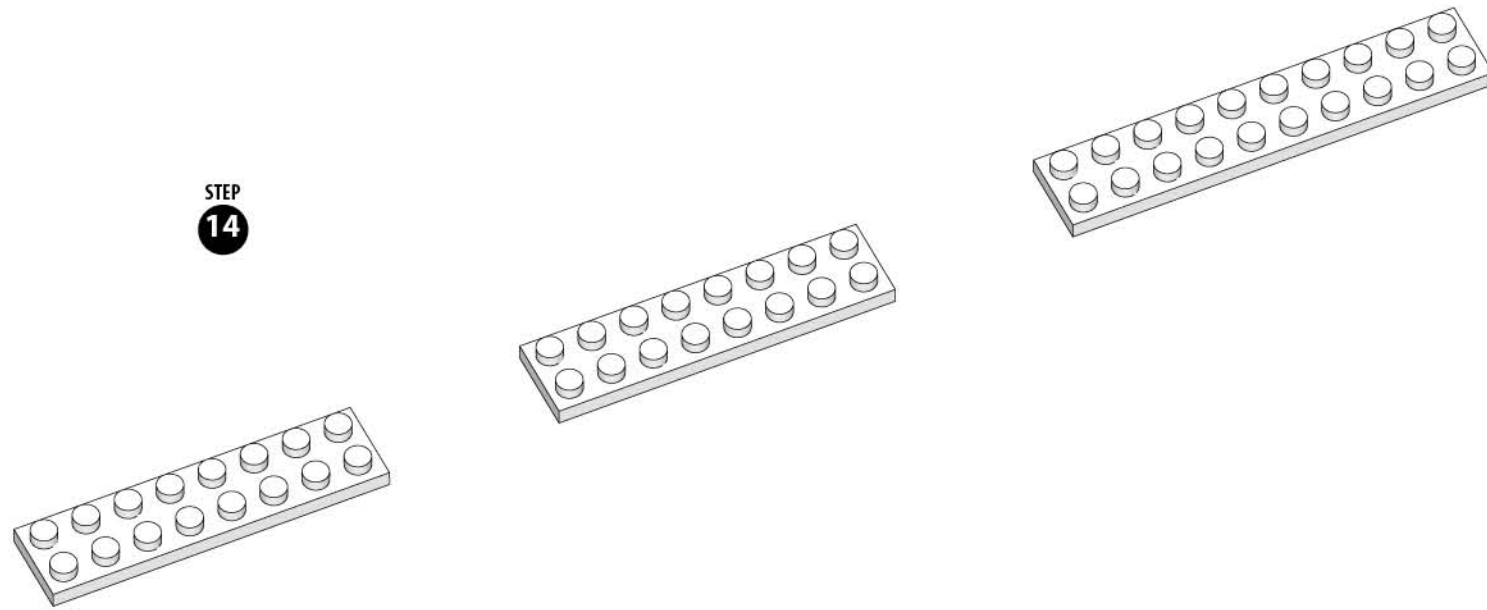
4X



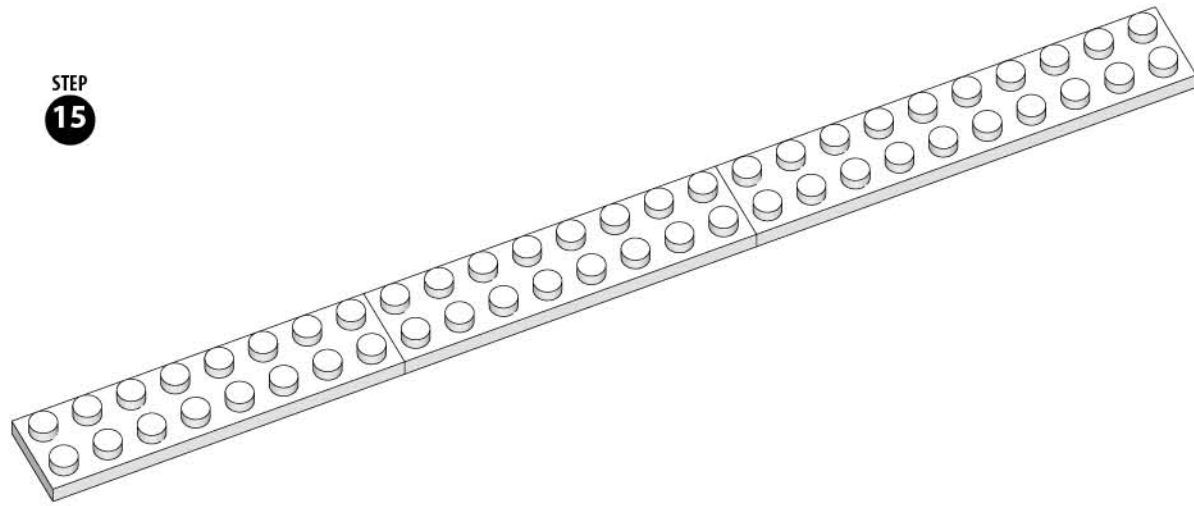
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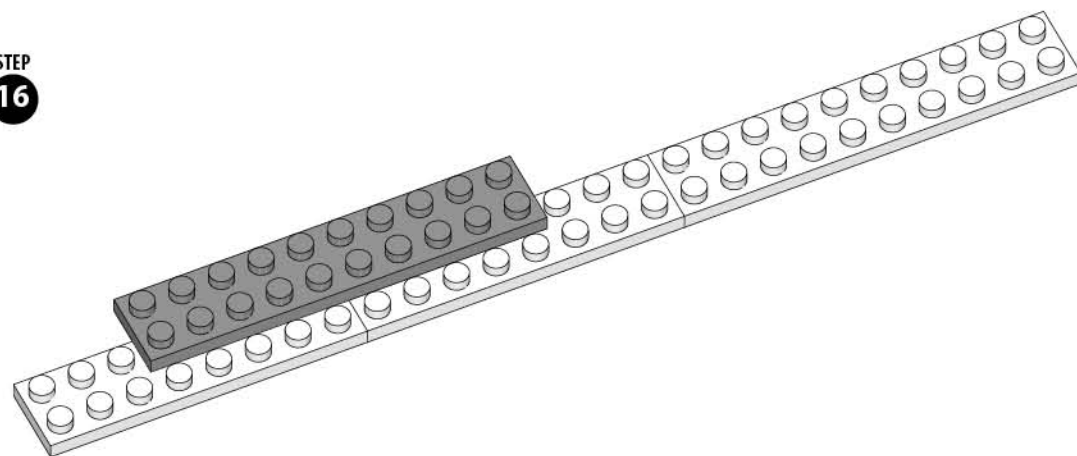
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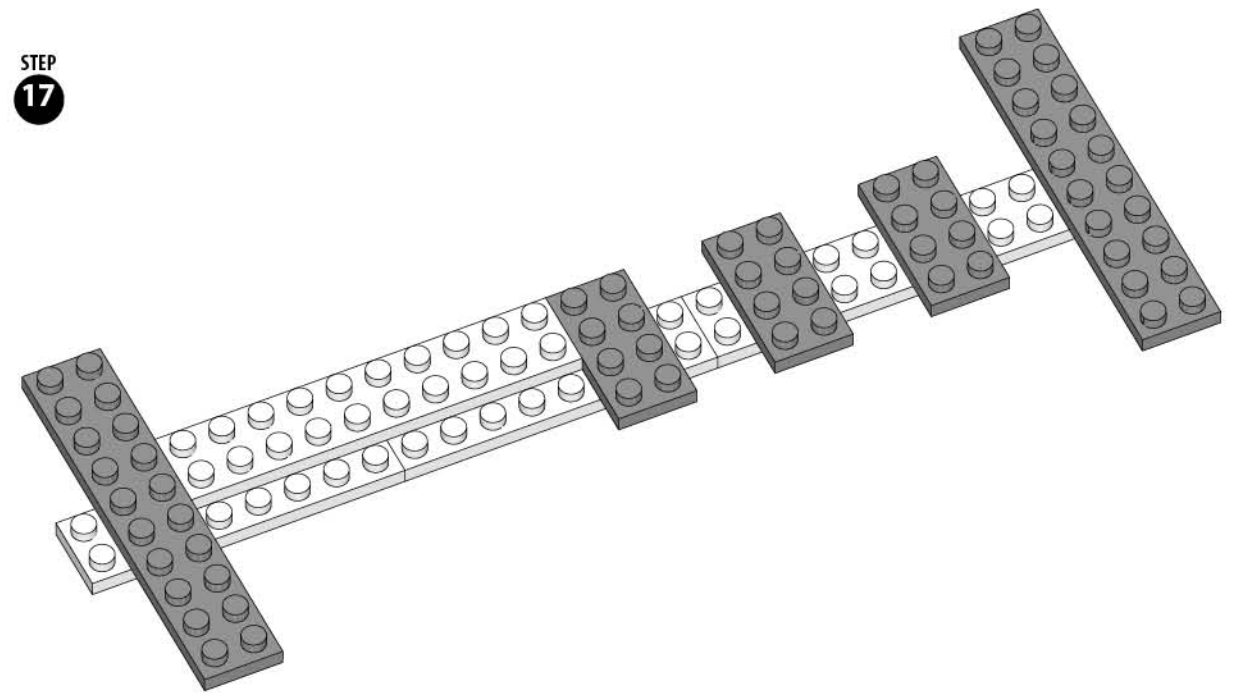
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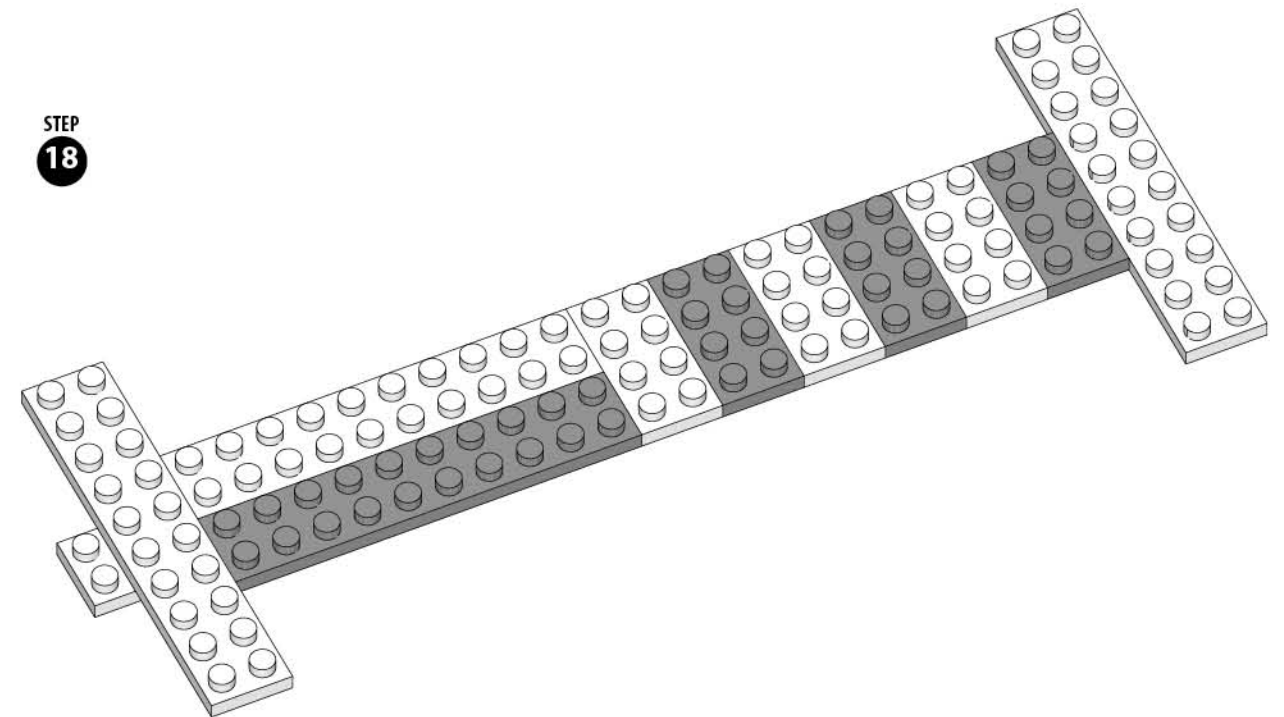
STEP  
16



STEP  
17



STEP  
18



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**STEP 22**

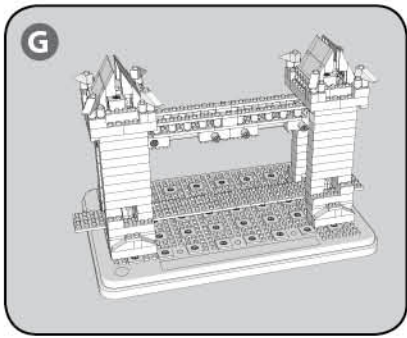
The diagram illustrates the assembly of a LEGO Technic beam. A long white Technic beam is shown with a motor and gears attached. The motor is connected to a gear, which is part of a gear train. The gear train consists of several gears of different sizes connected by a series of black dotted lines. The assembly is shown in a perspective view, with the motor and gears arranged in a line. A dashed arrow points from the motor towards the gears, indicating the direction of rotation. The assembly is shown in a perspective view, with the motor and gears arranged in a line. A dashed arrow points from the motor towards the gears, indicating the direction of rotation.

**STEP**  
**23**

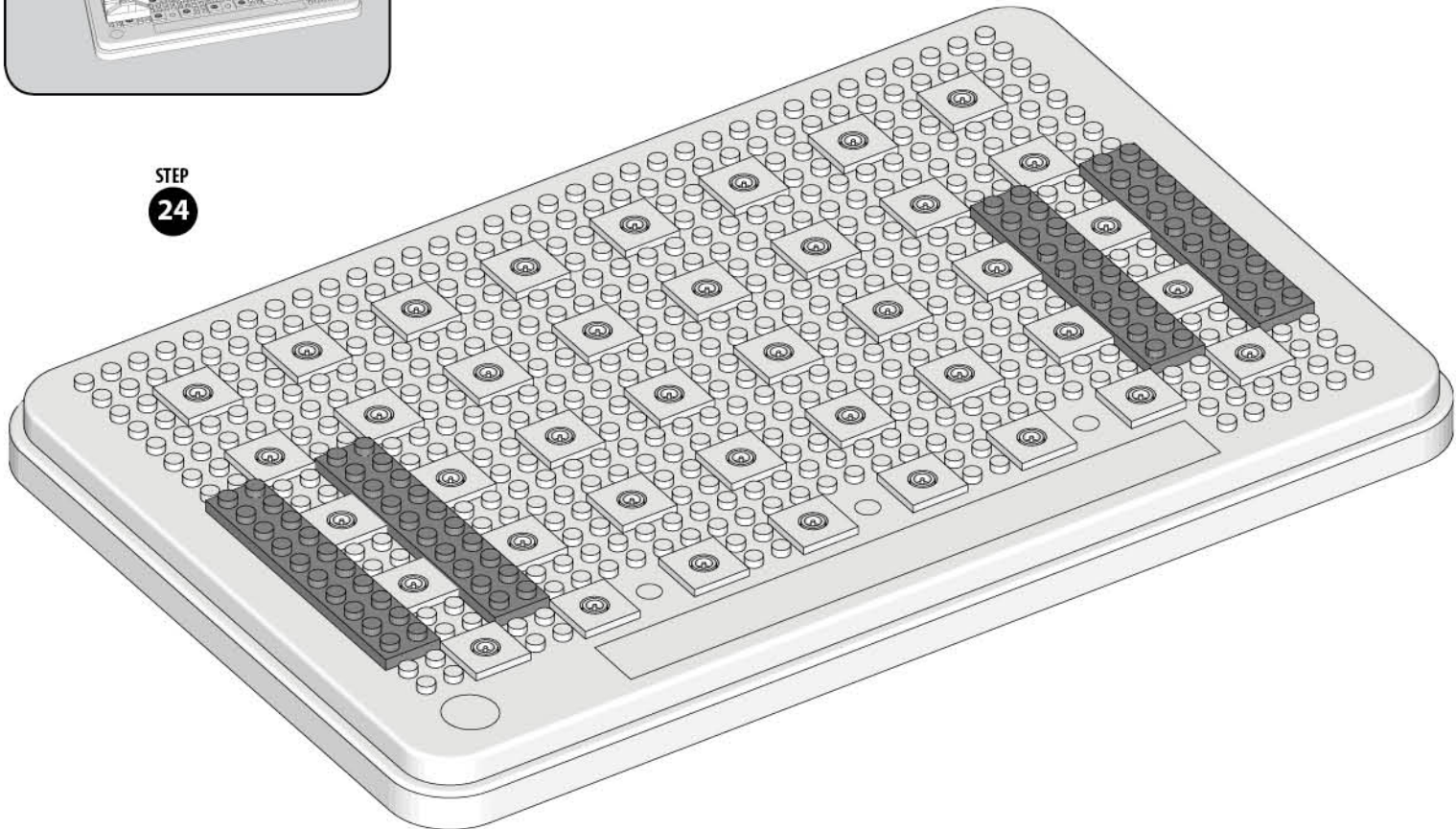
This diagram illustrates the assembly of a LEGO Technic beam. The beam is a long, white, rectangular component with a series of circular holes along its length. It is shown being connected to a smaller, white, rectangular component on the left. The smaller component has a circular hole on its side, which is being aligned with one of the holes on the beam. A small, white, cylindrical pin is shown being inserted into the hole on the smaller component. The beam is also shown being connected to a larger, white, rectangular component on the right. The larger component has a circular hole on its side, which is being aligned with one of the holes on the beam. A small, white, cylindrical pin is shown being inserted into the hole on the larger component. The beam is shown in a perspective view, with its ends extending towards the left and right edges of the diagram.



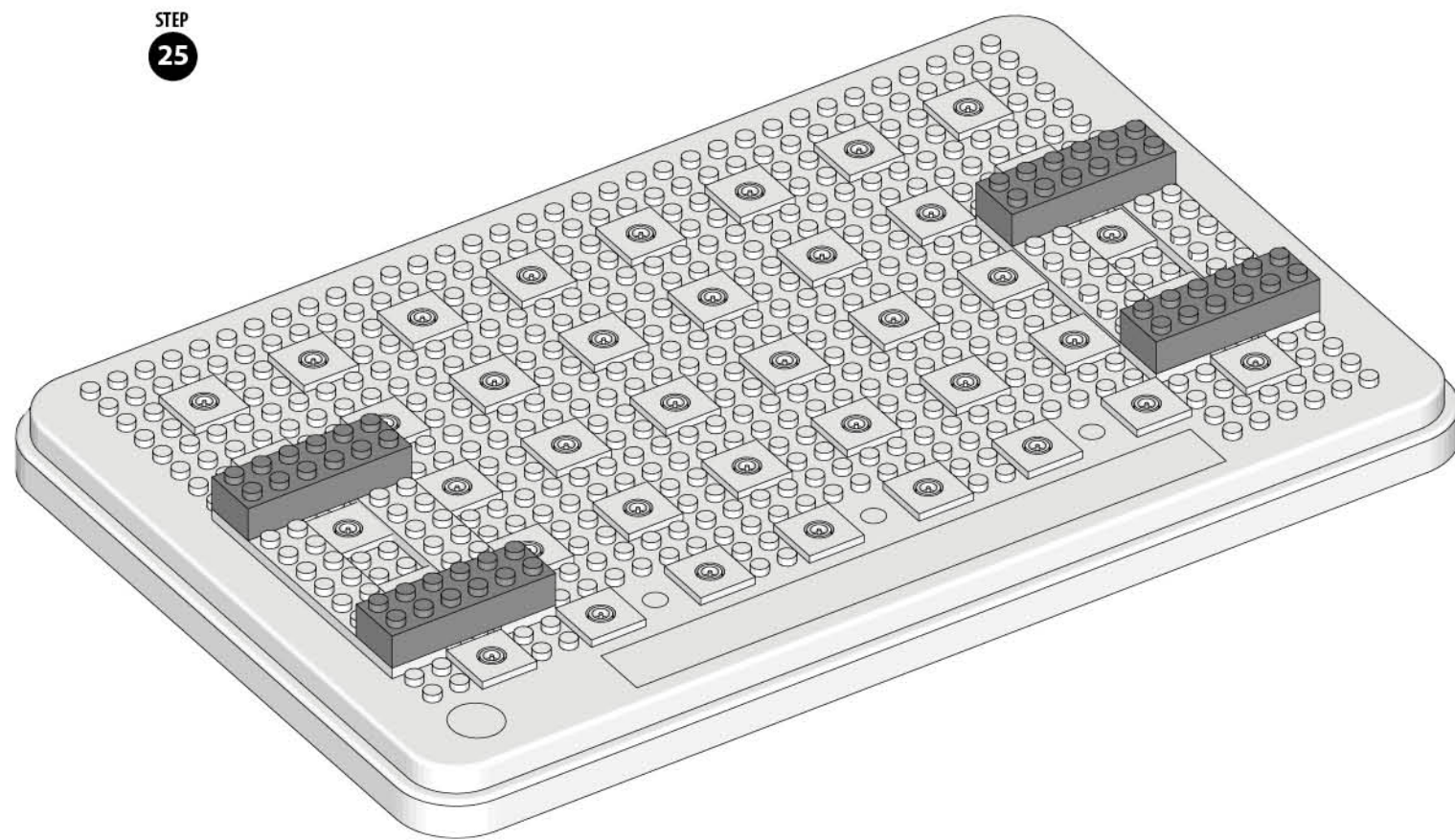




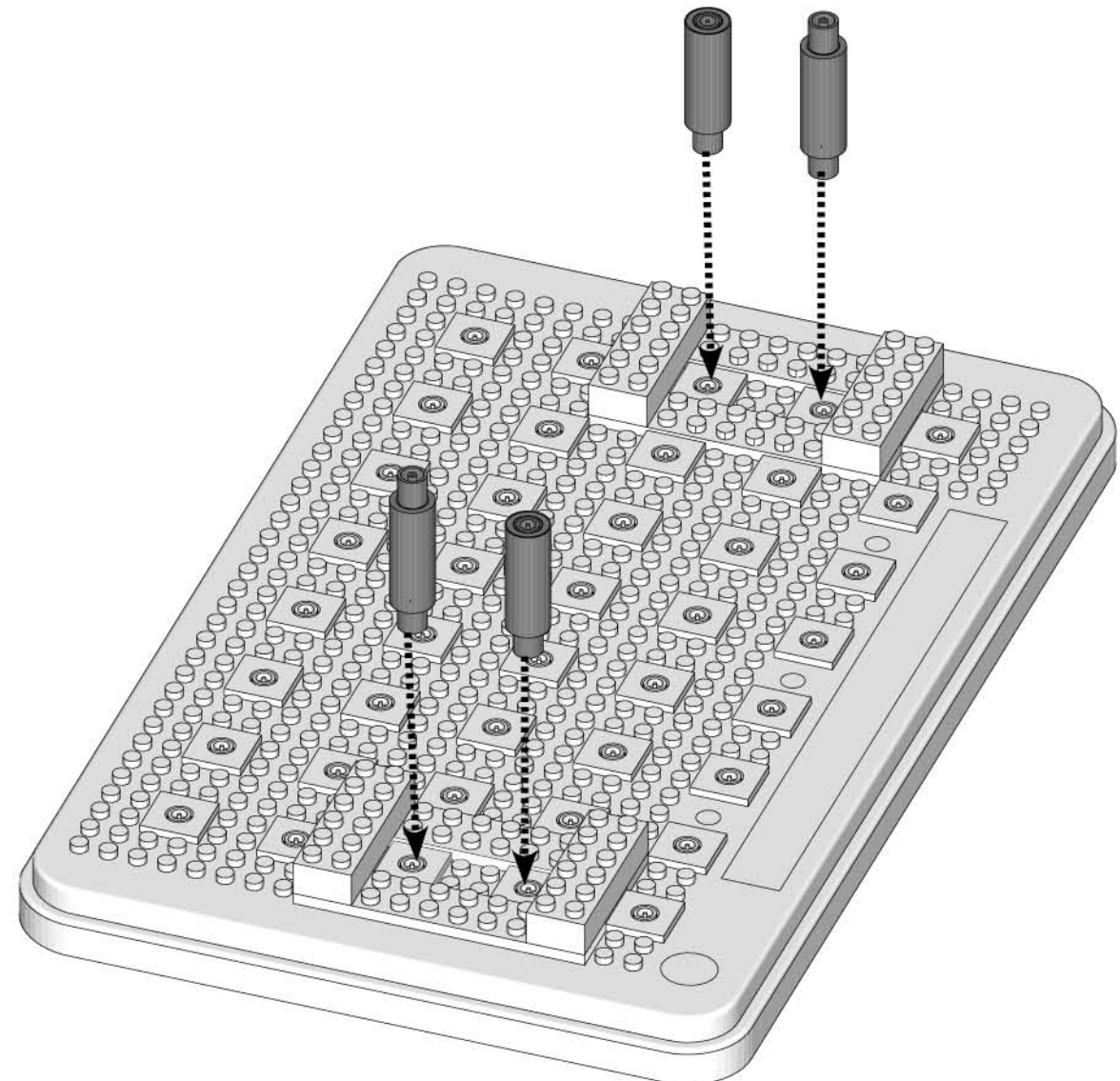
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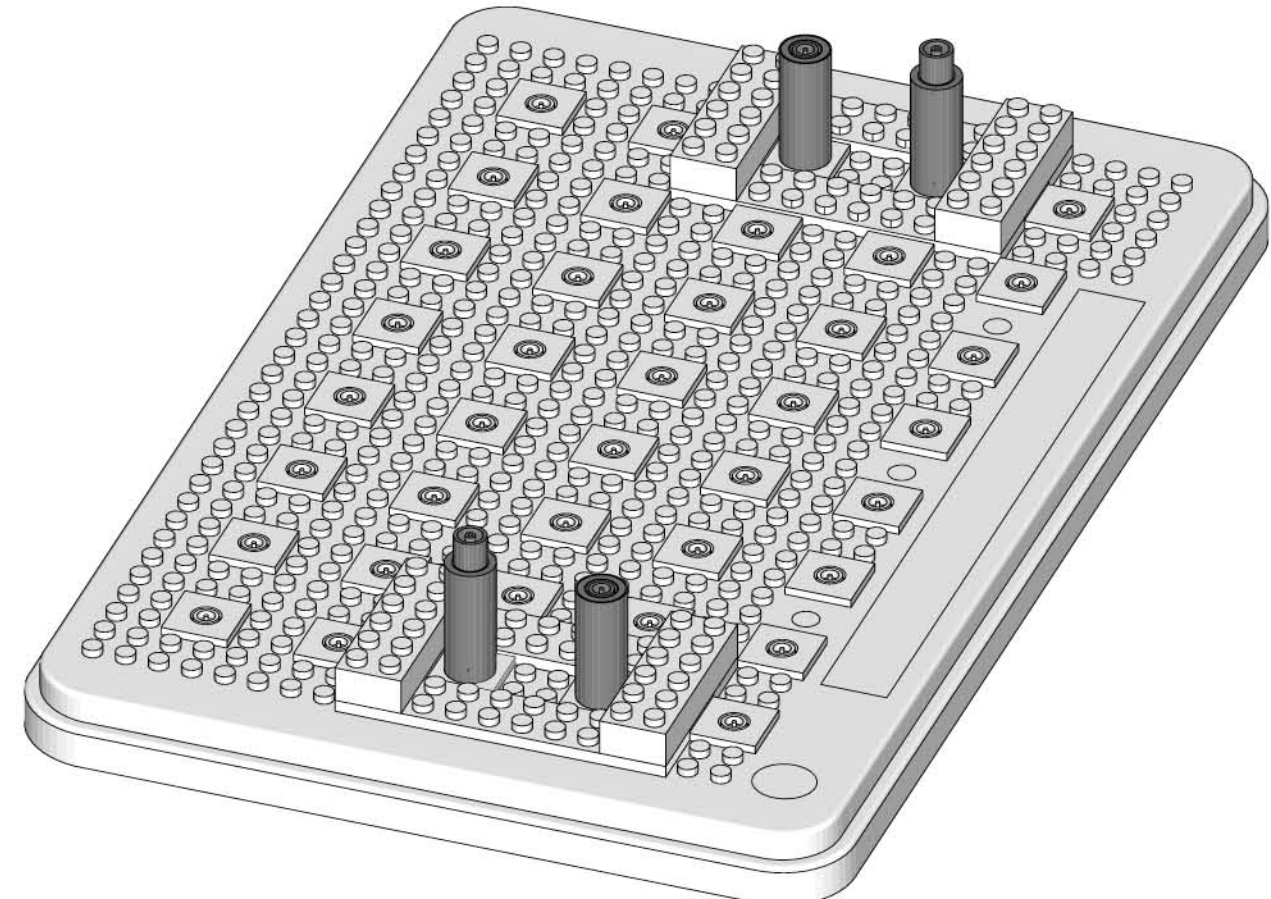
STEP  
25



STEP  
26

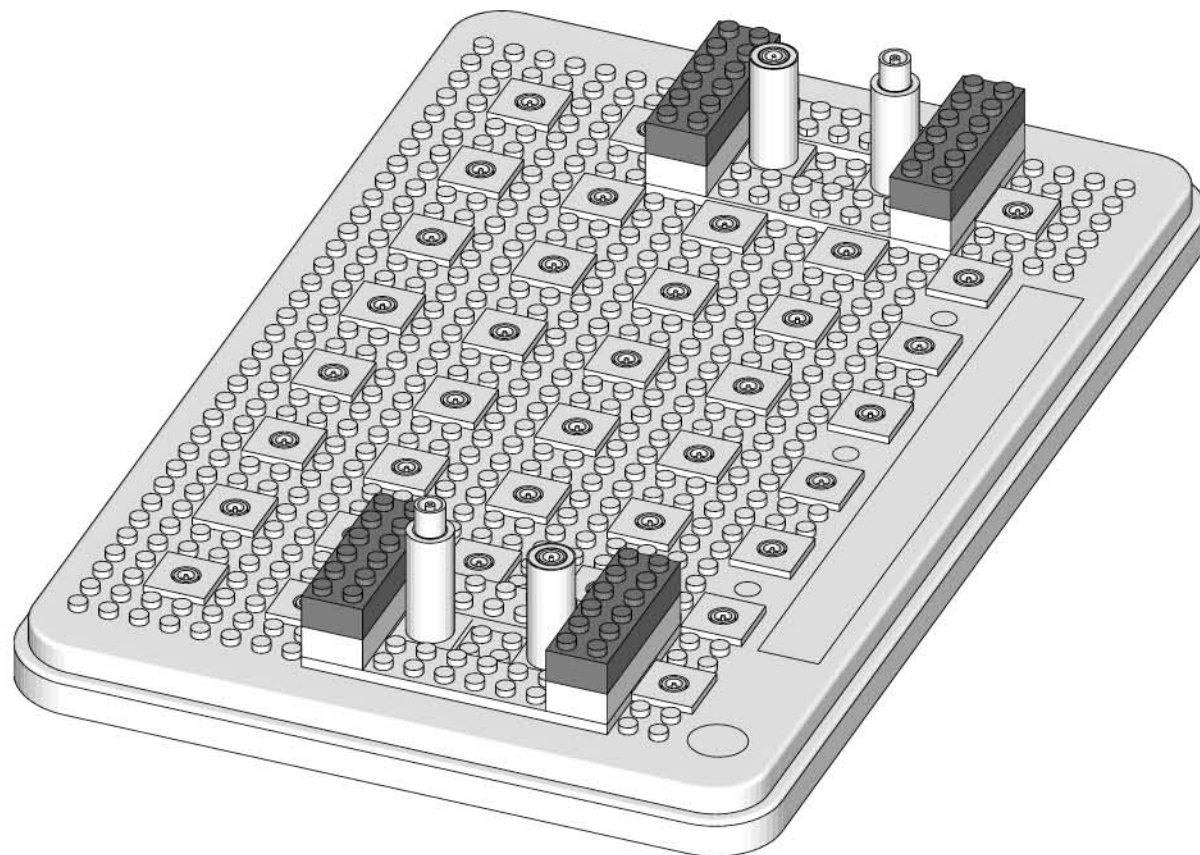


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27



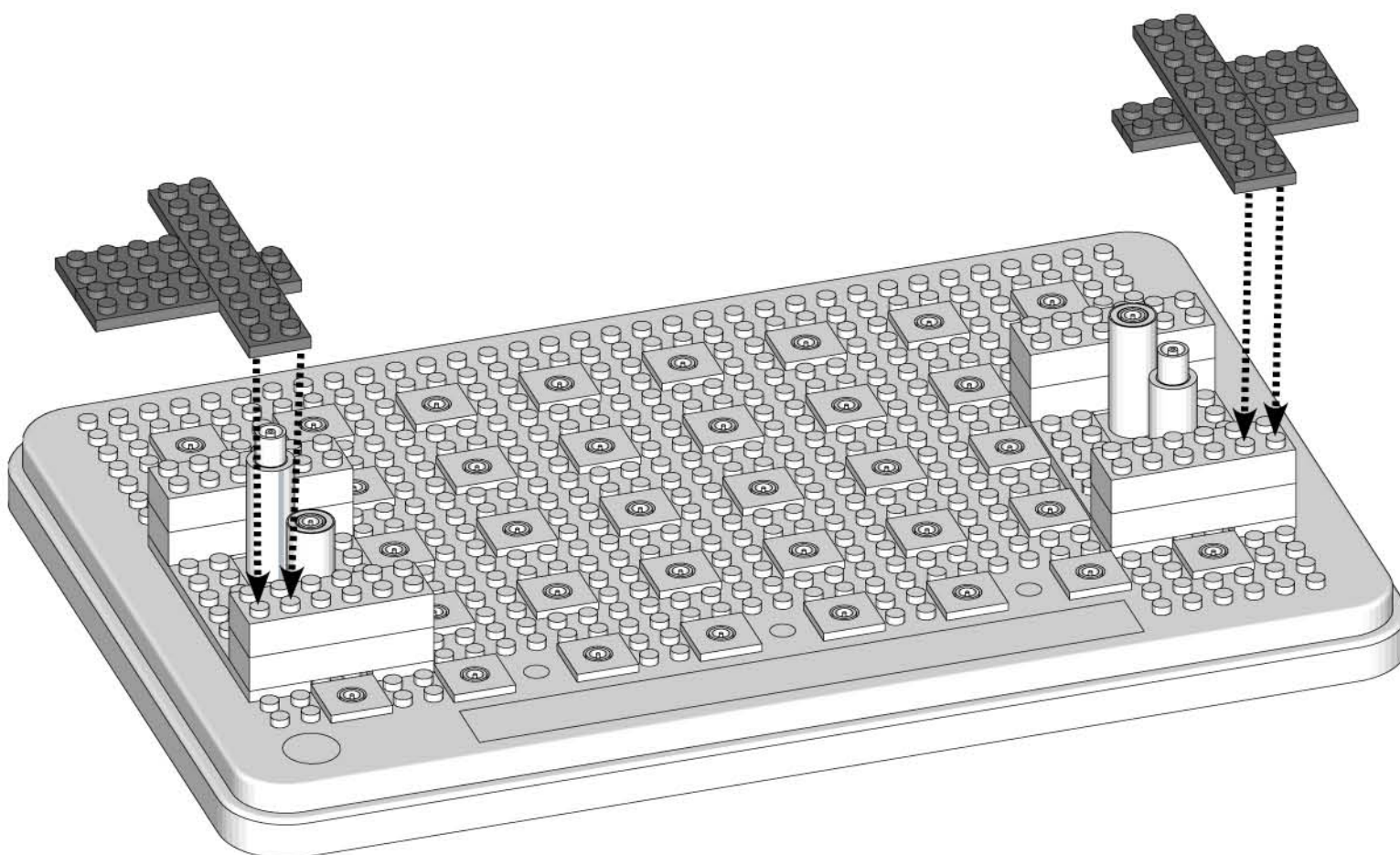


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28

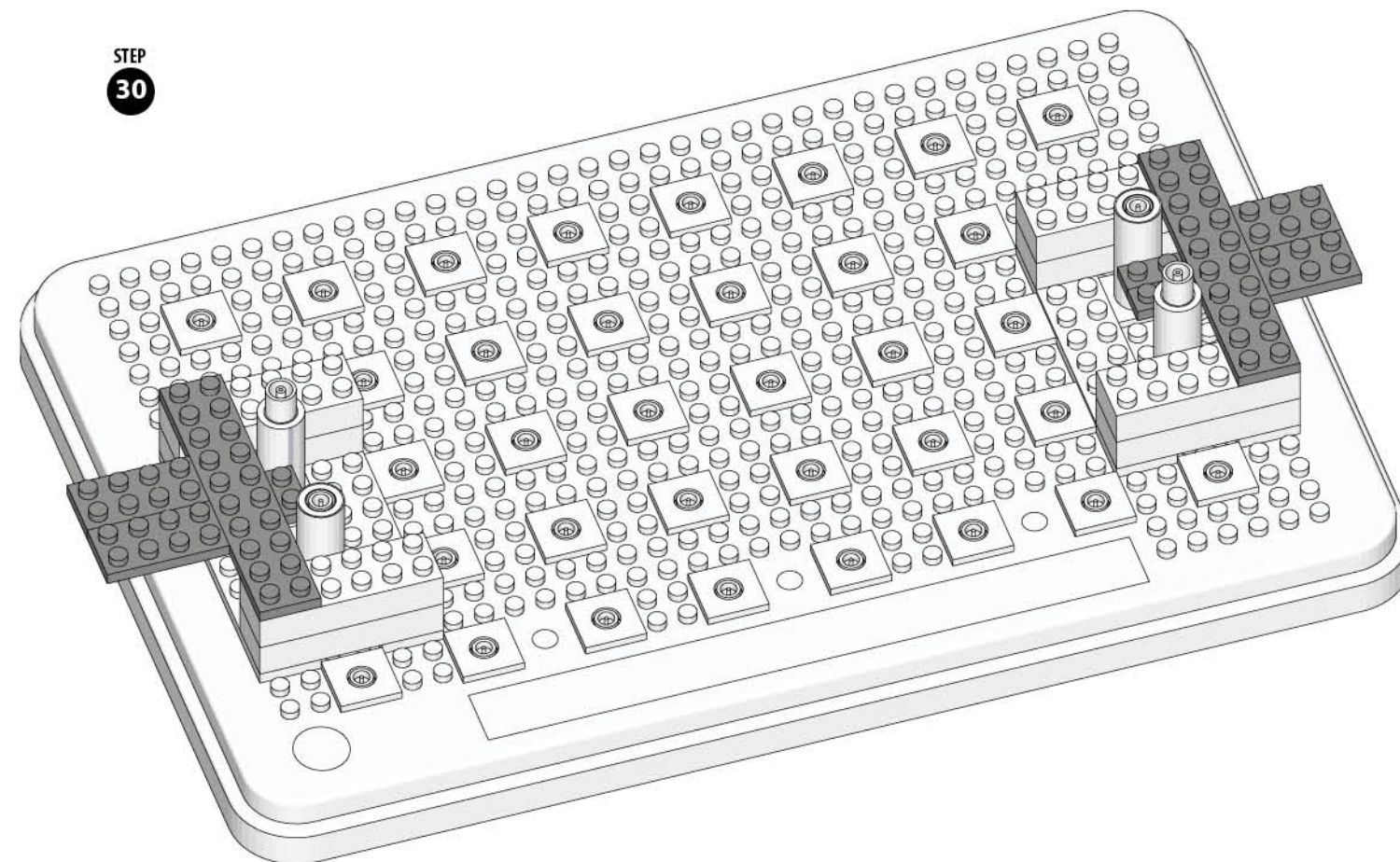


STEP  
29

COMBINE A B

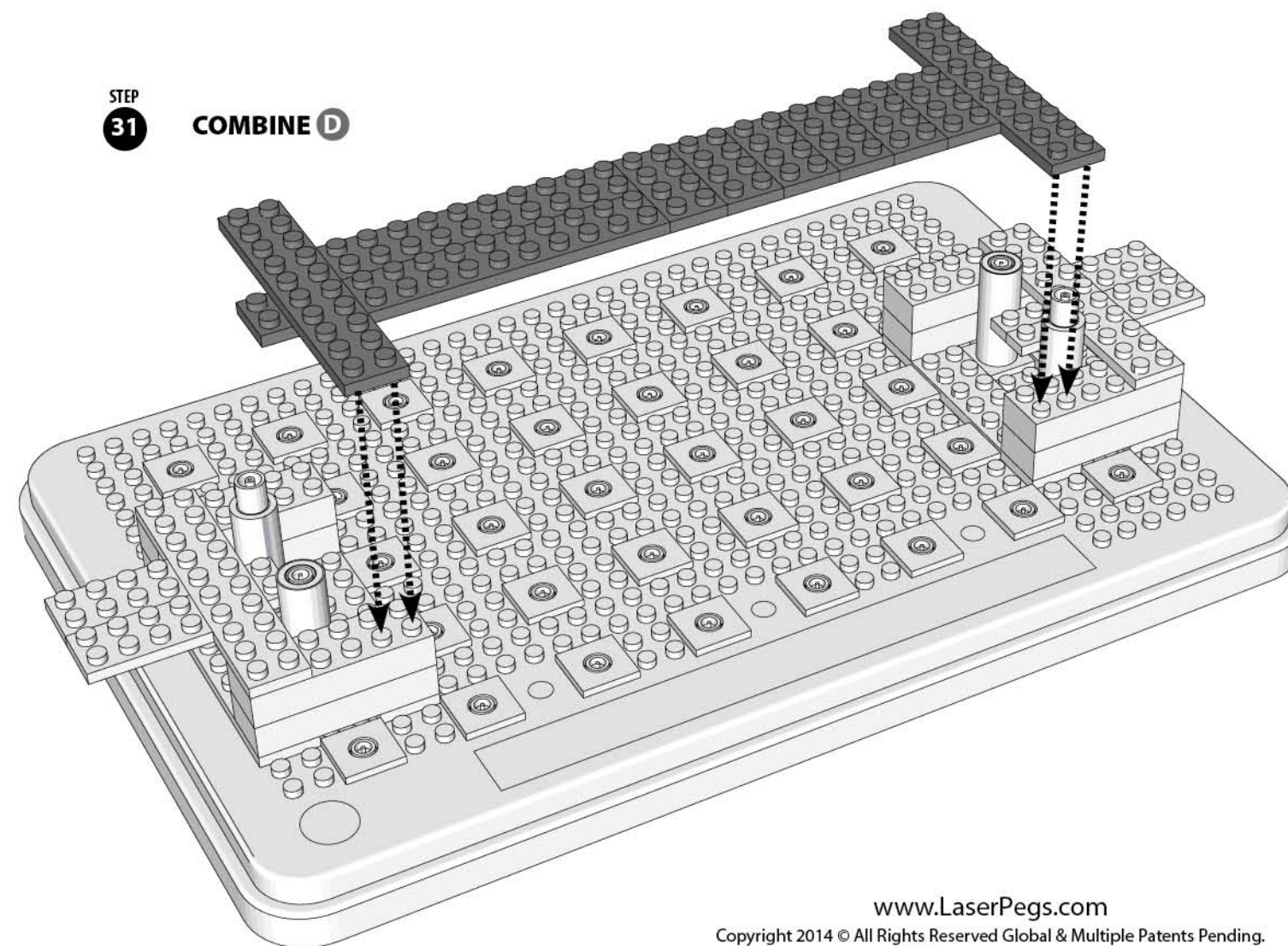


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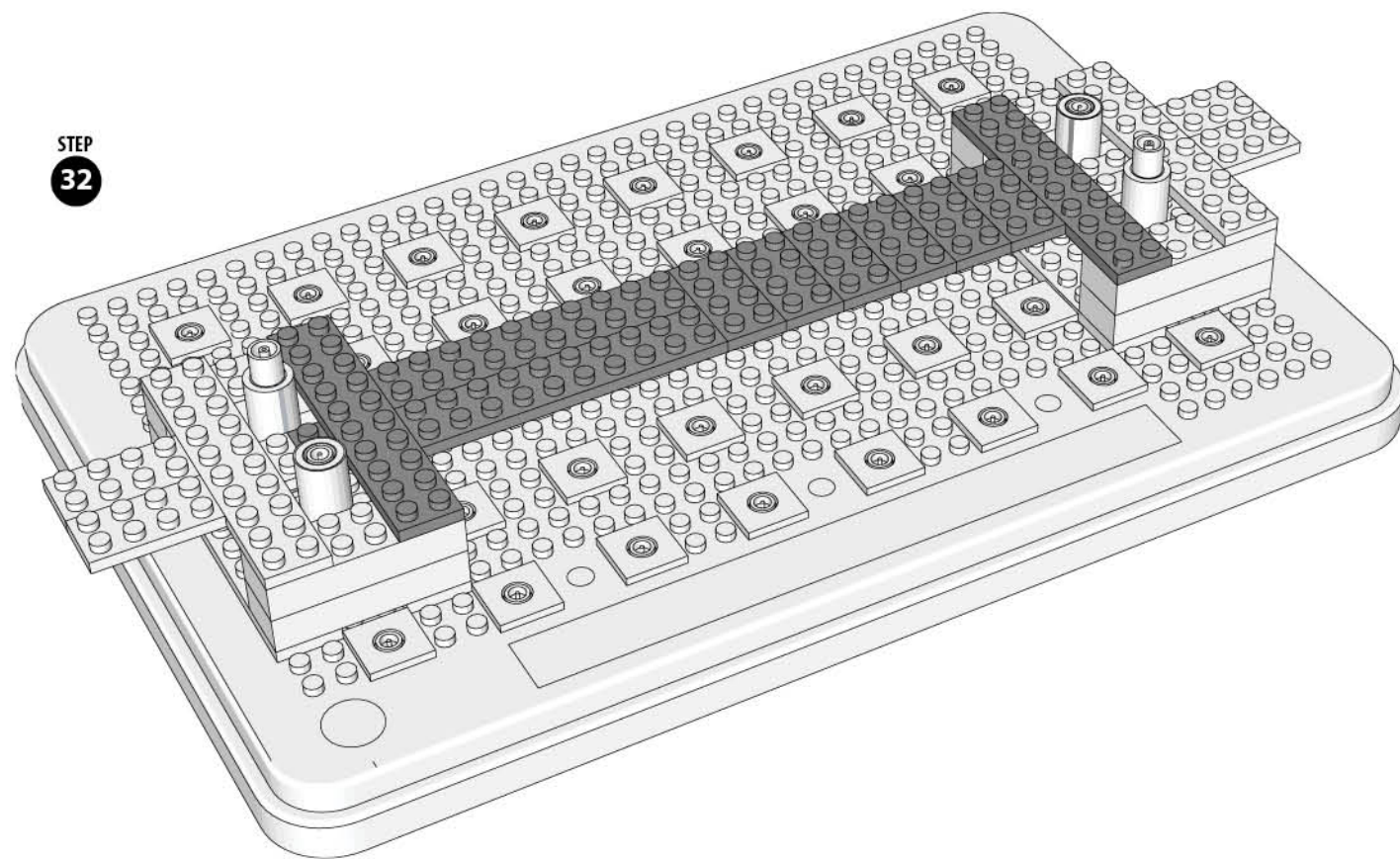
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31

COMBINE D

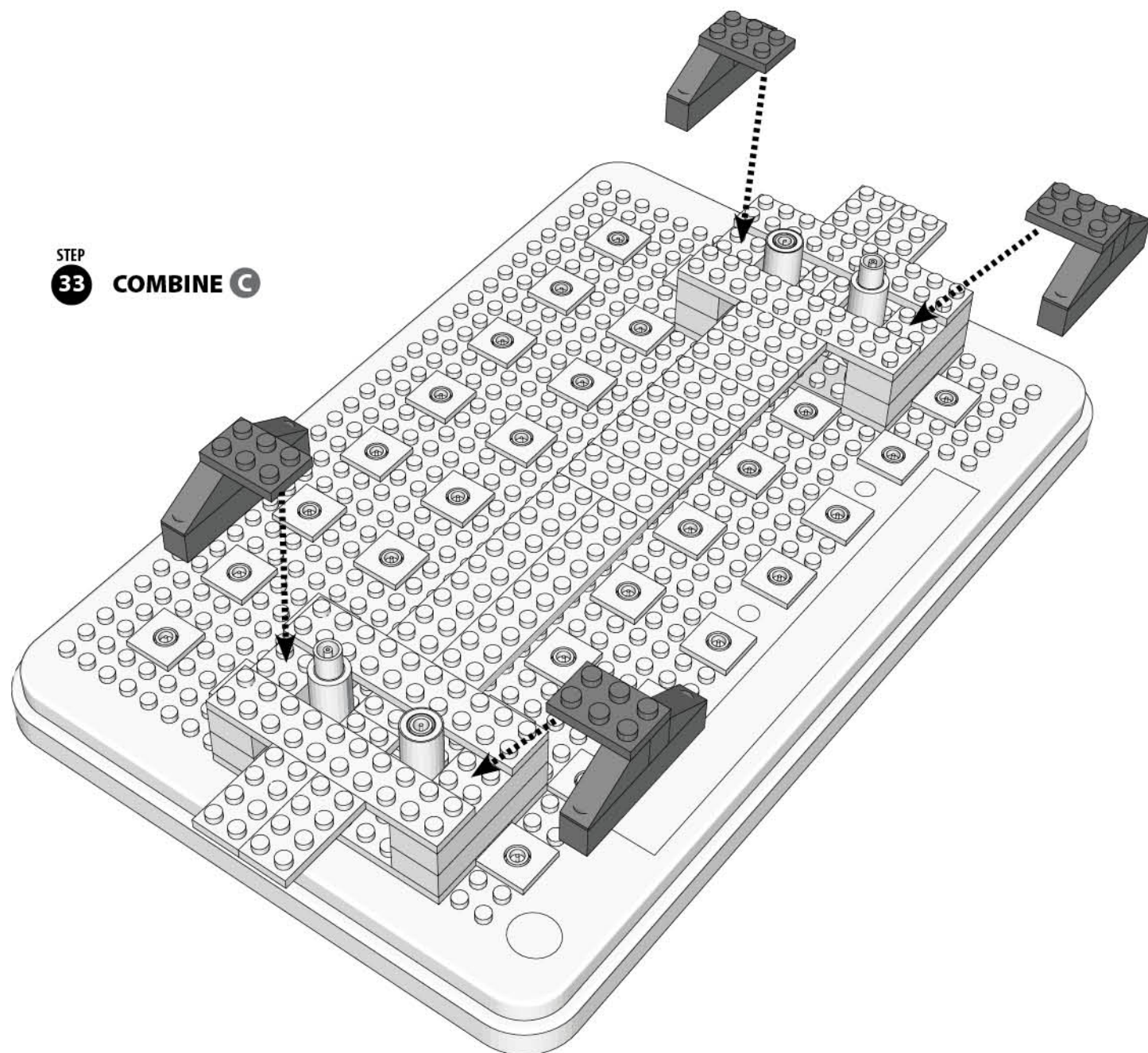




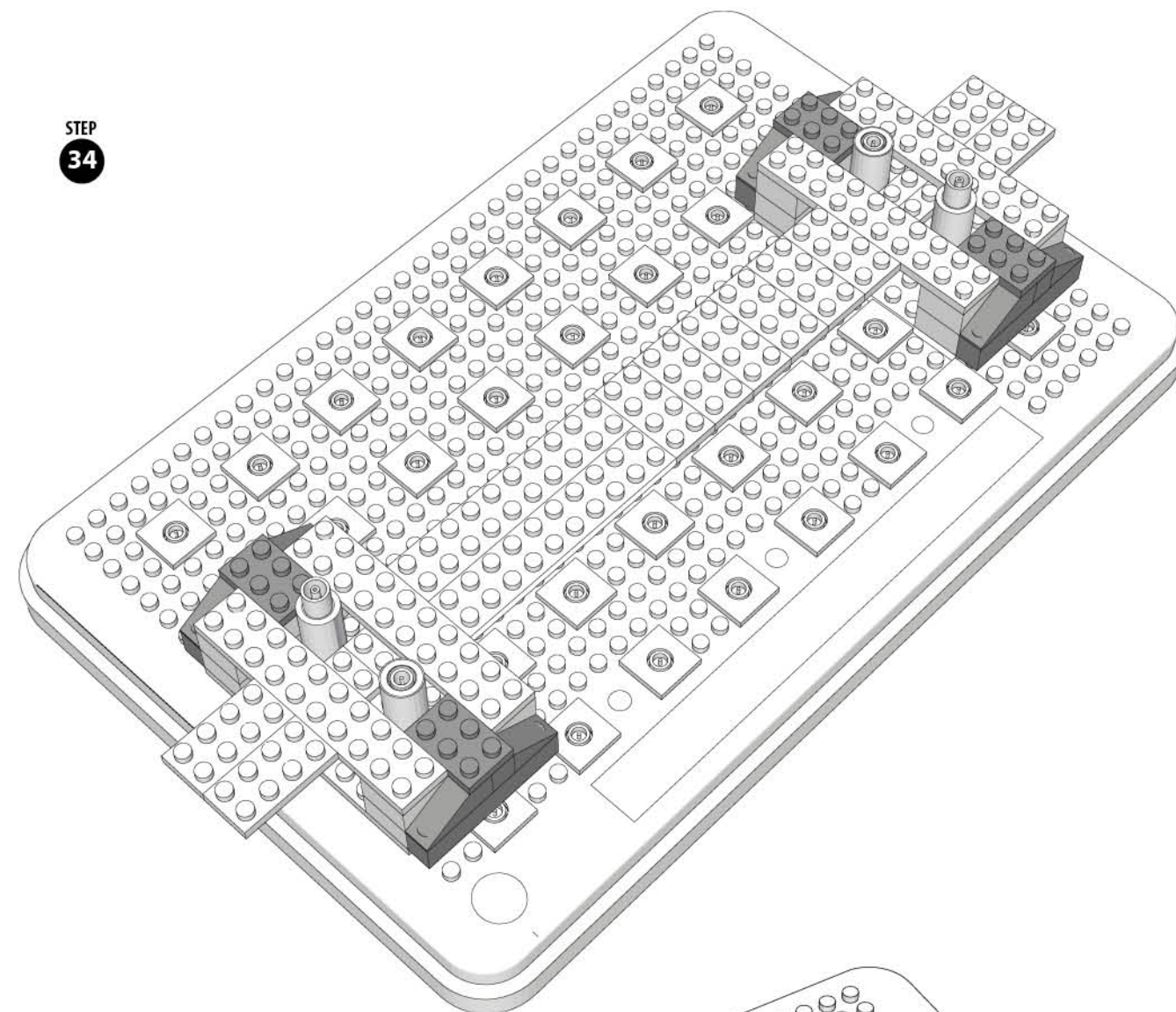
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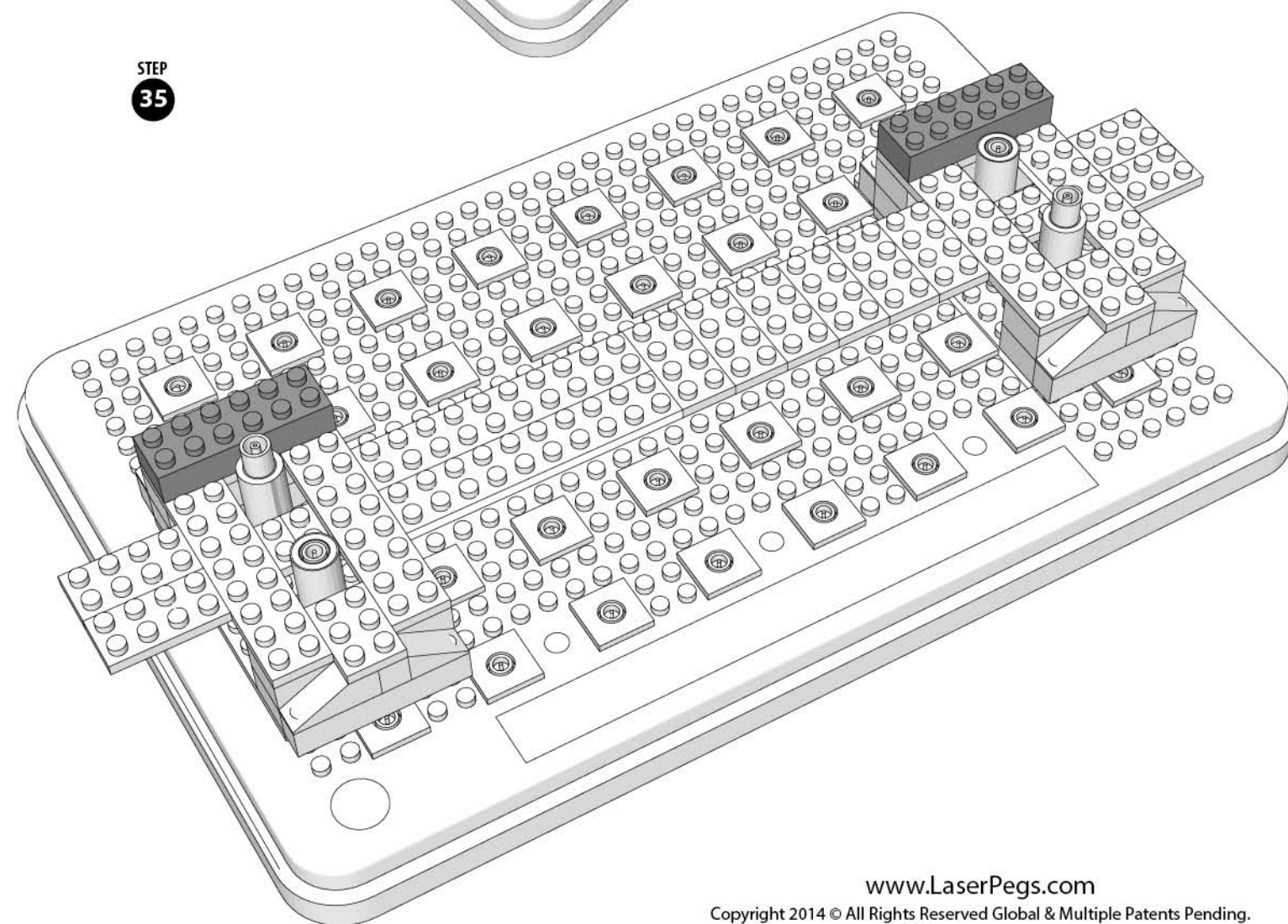
STEP  
33 COMBINE C



STEP  
34

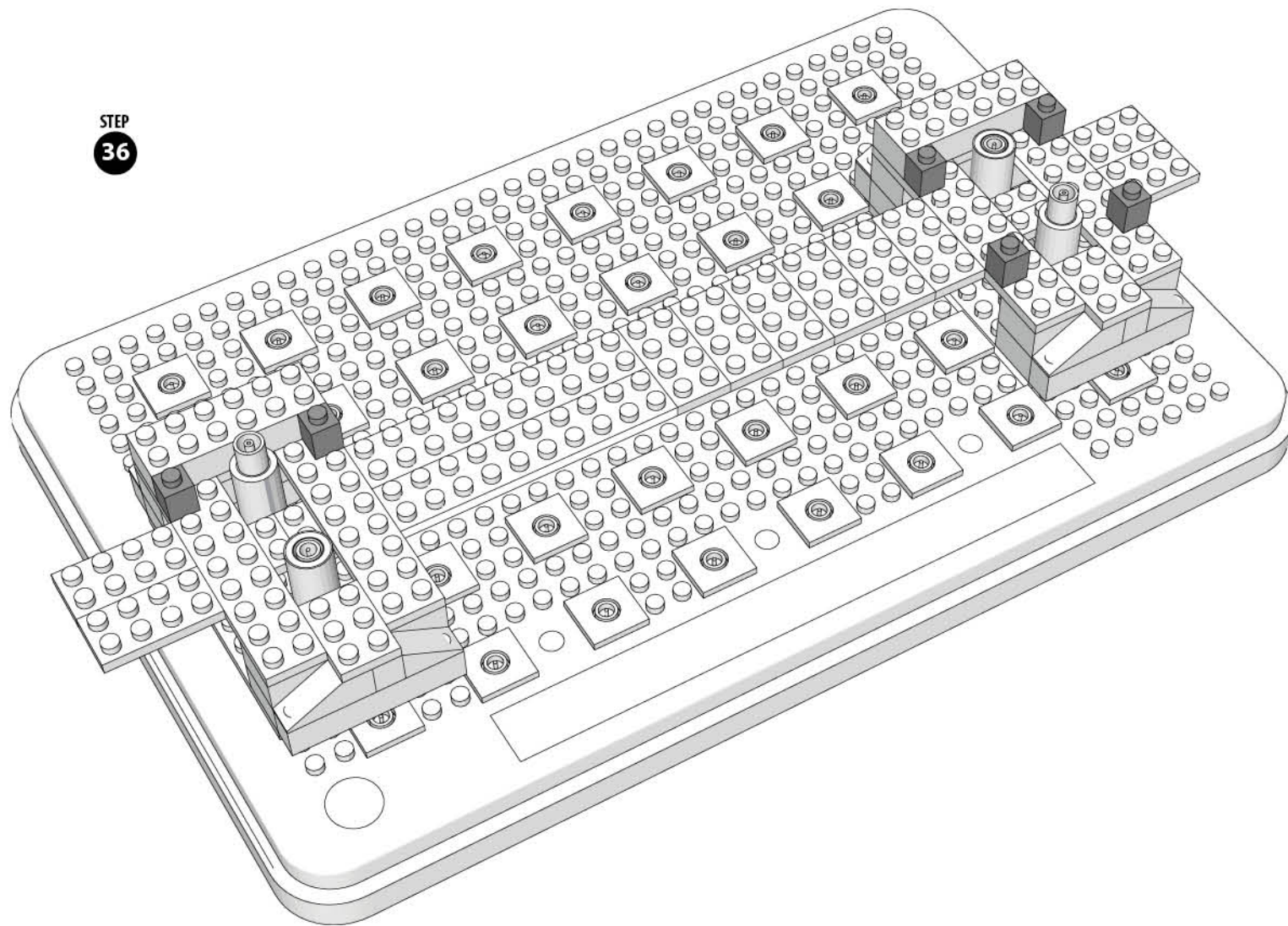


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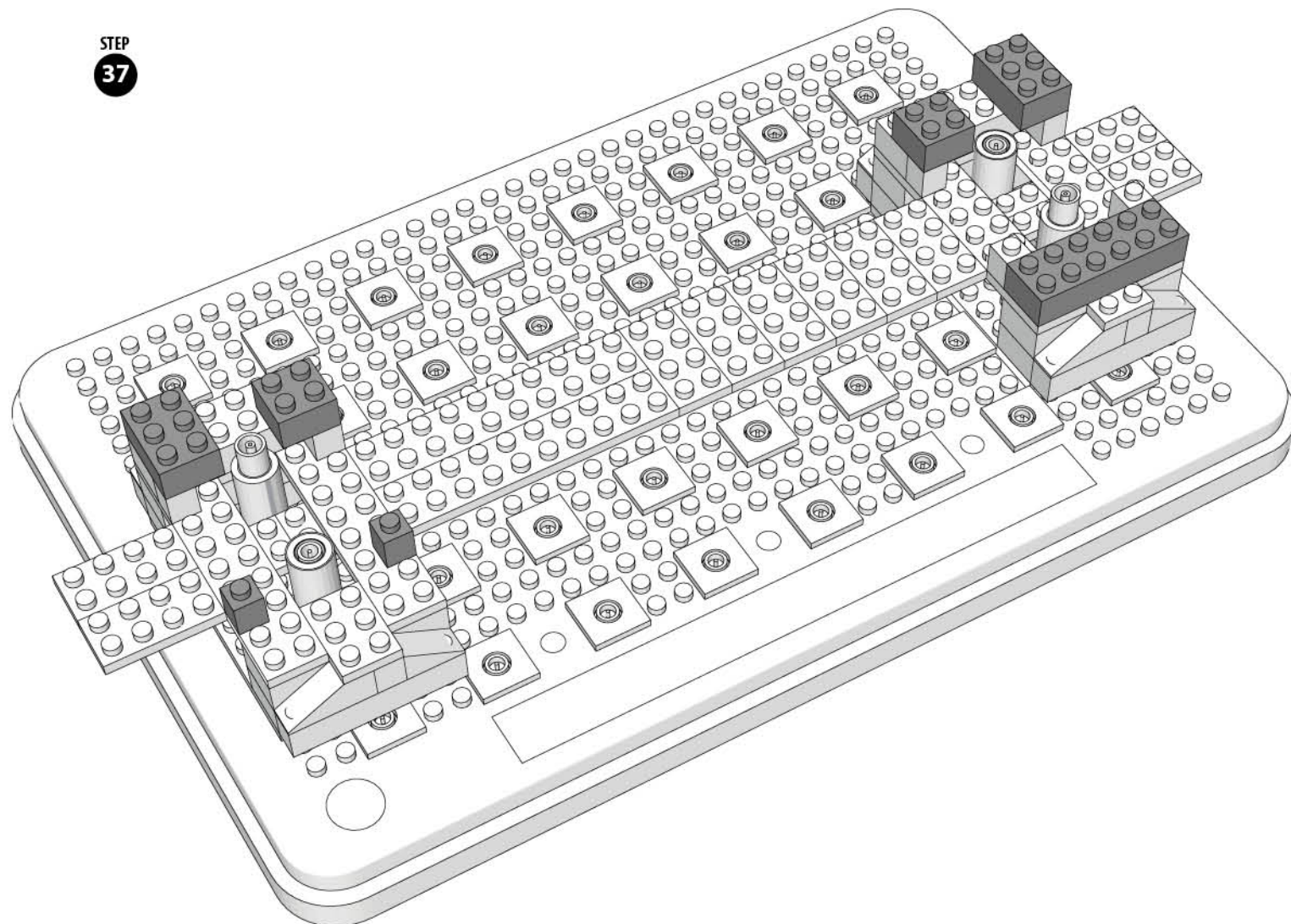




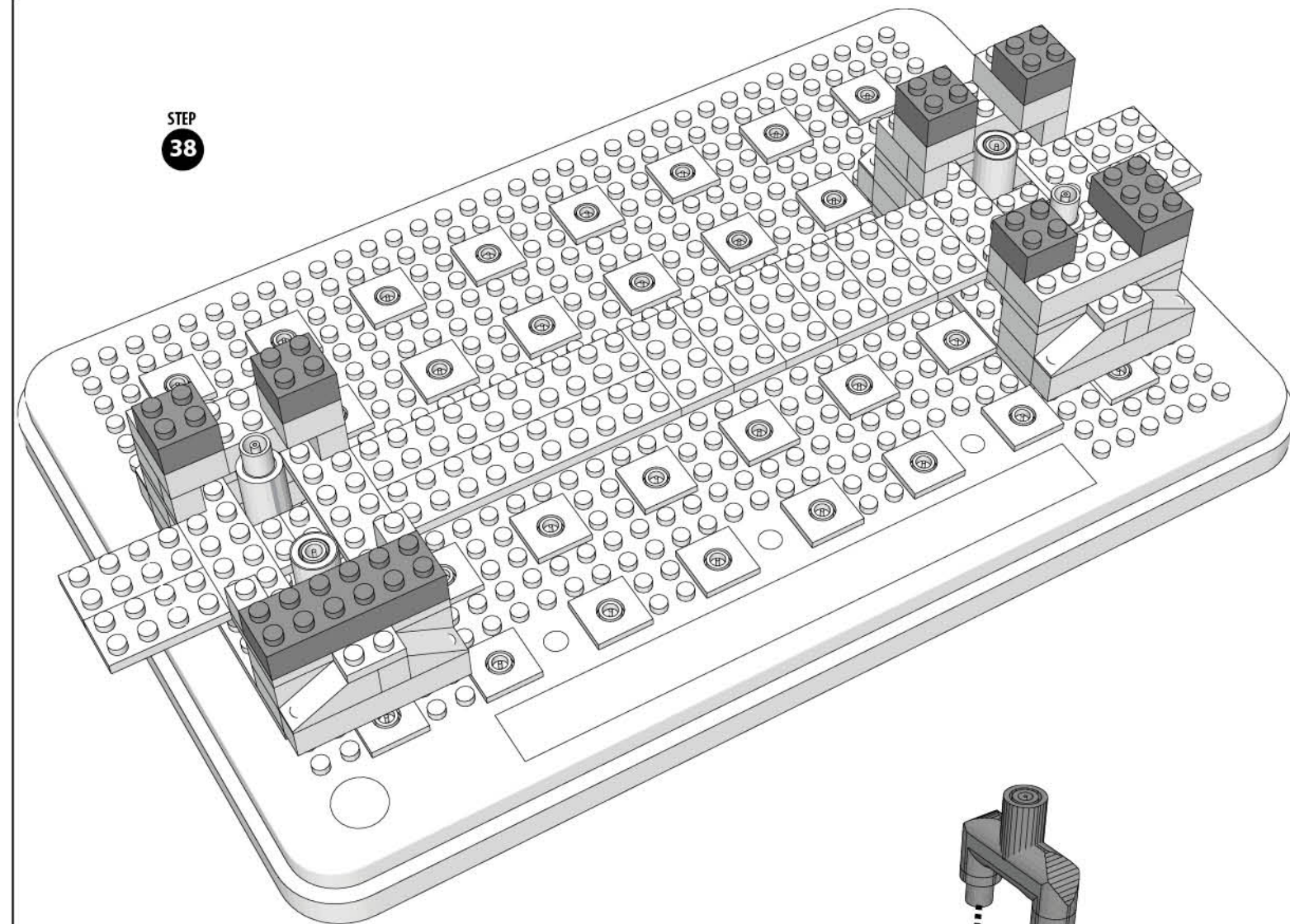
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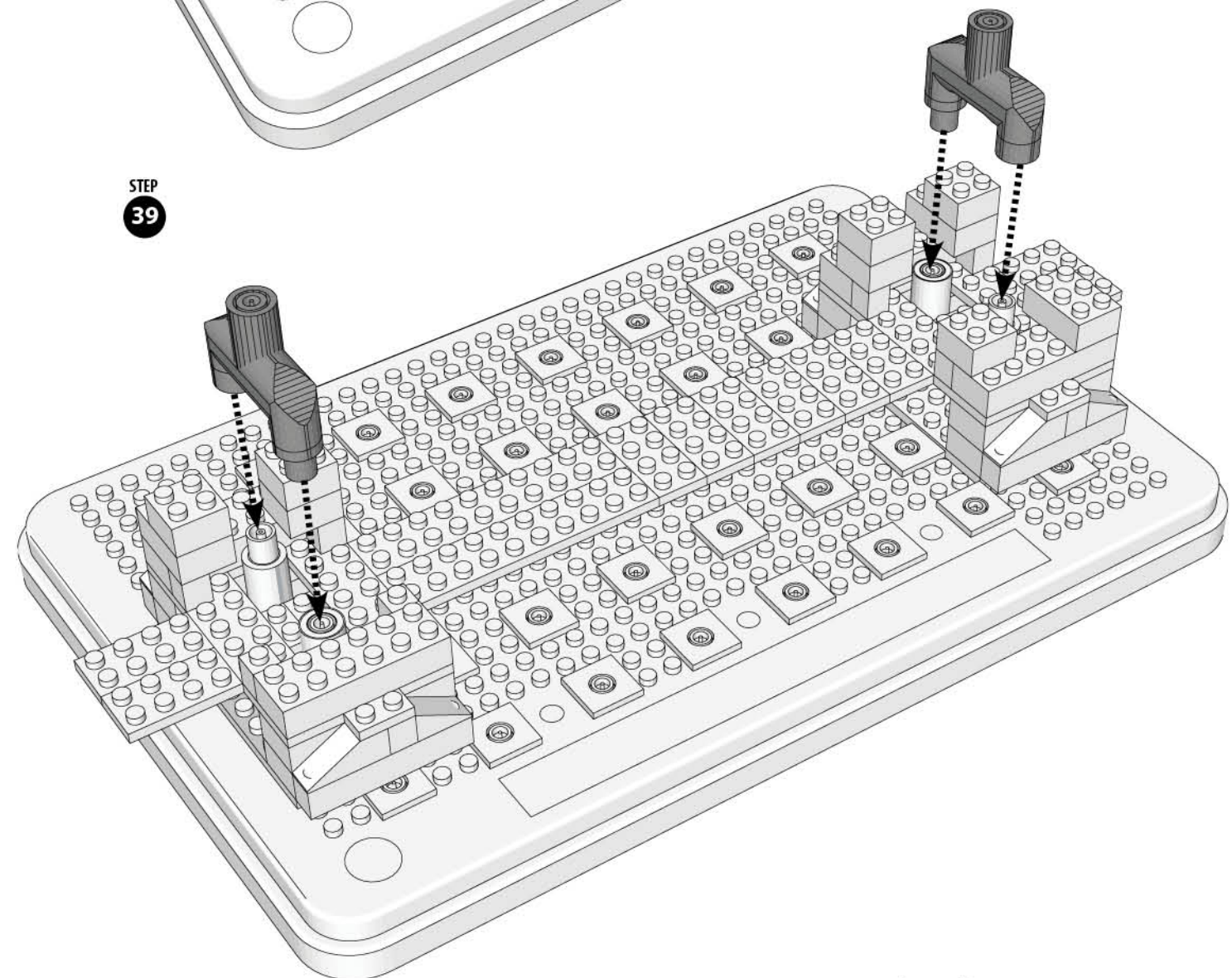
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37



STEP  
38

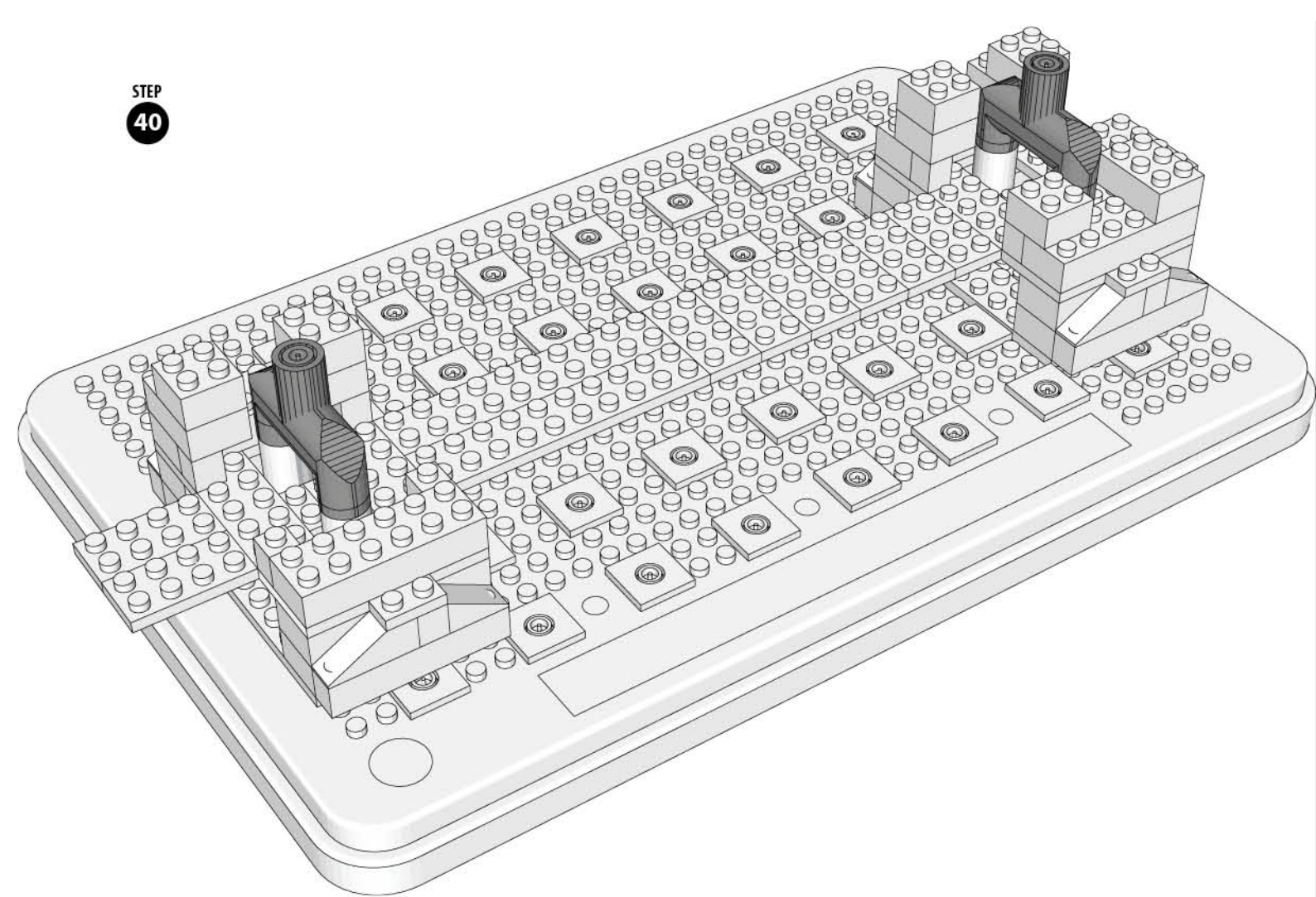


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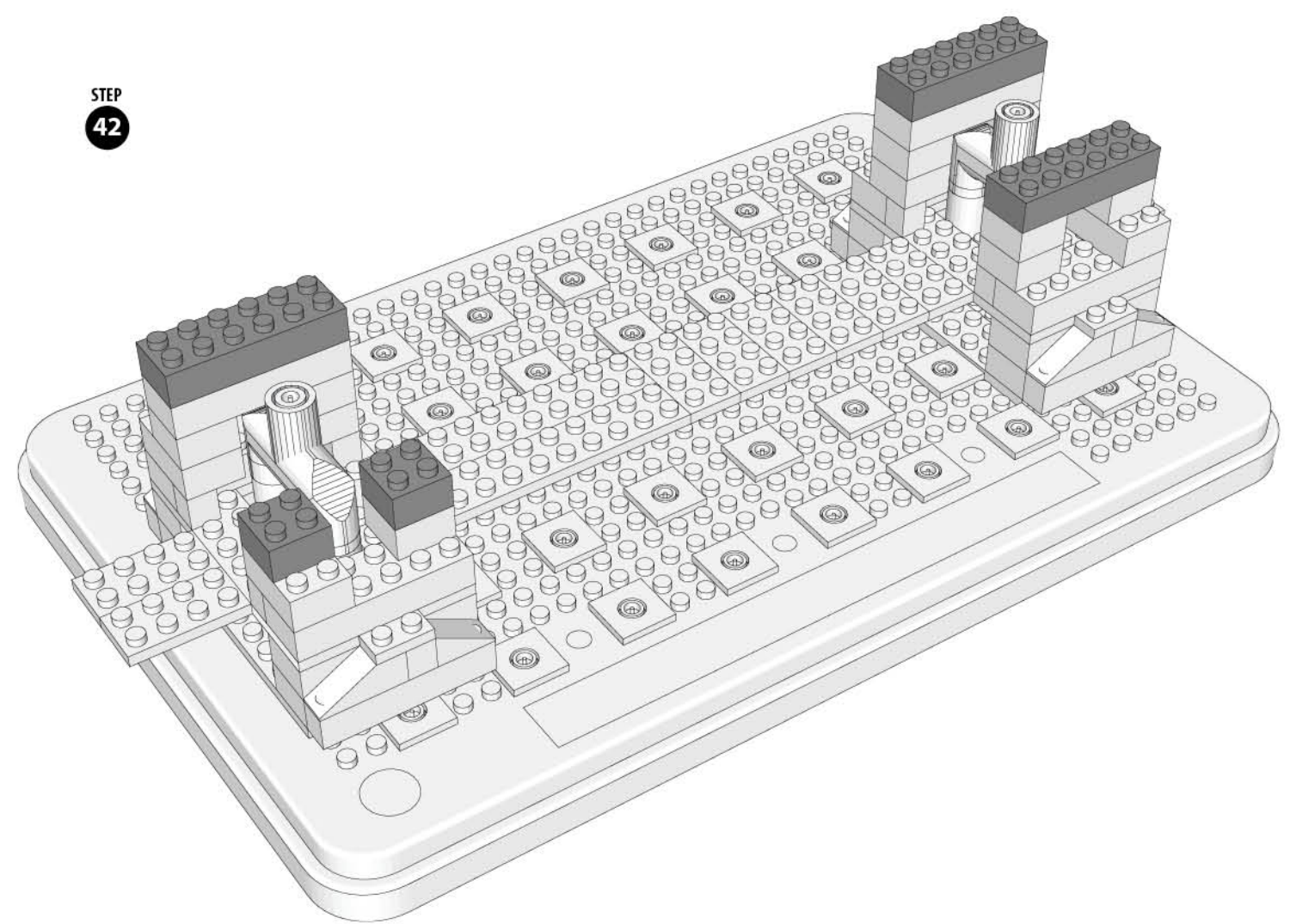




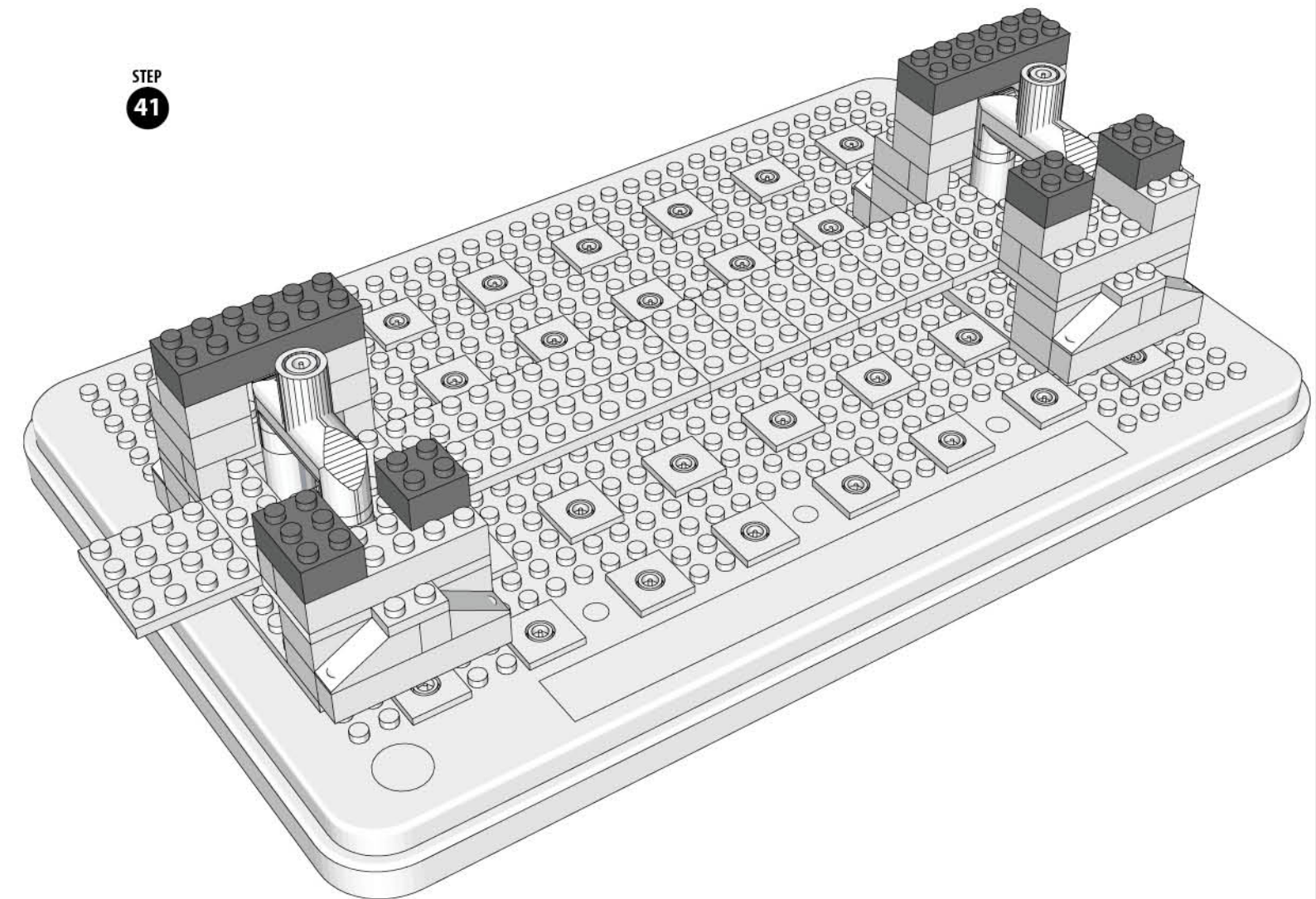
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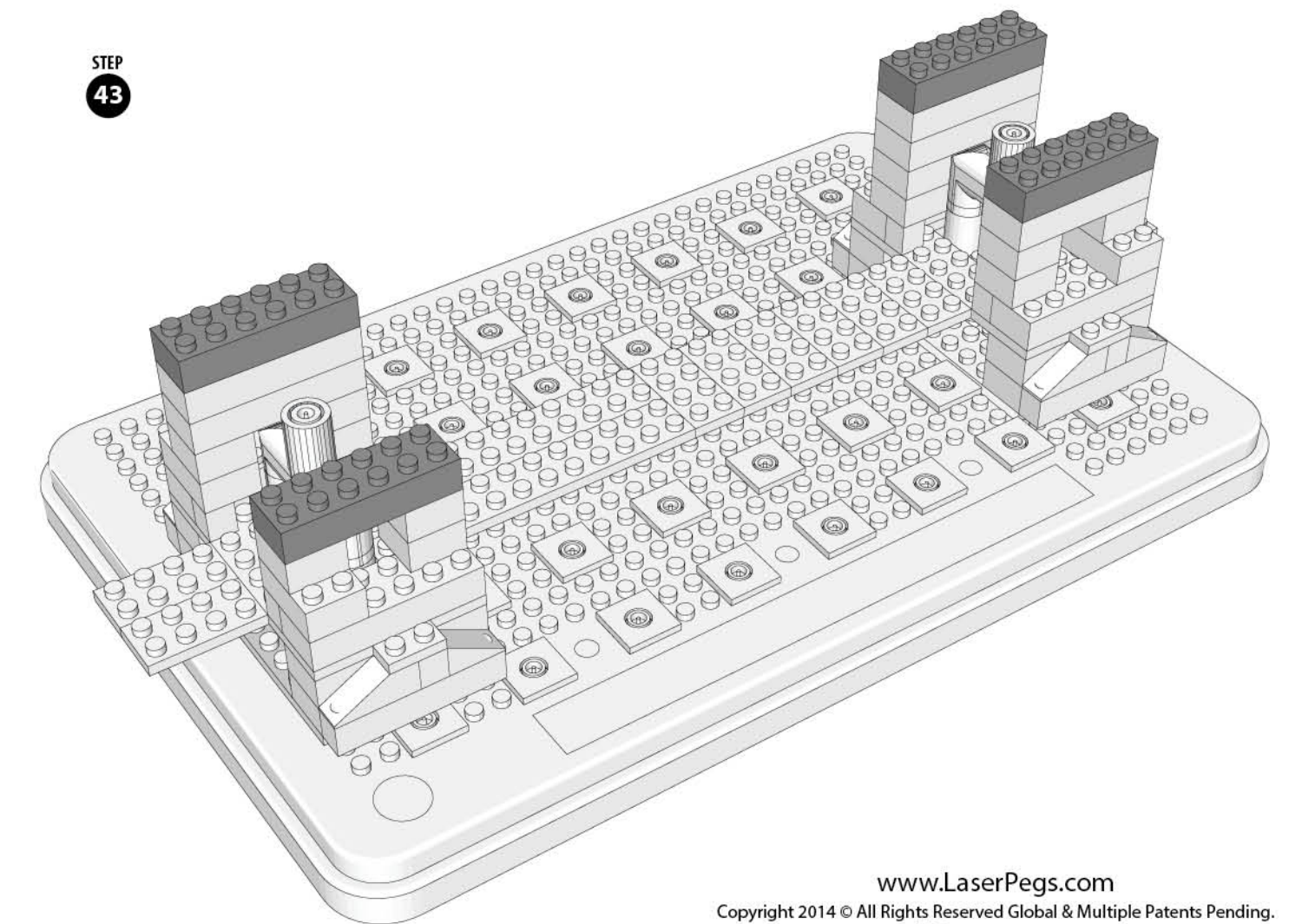
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STEP  
41

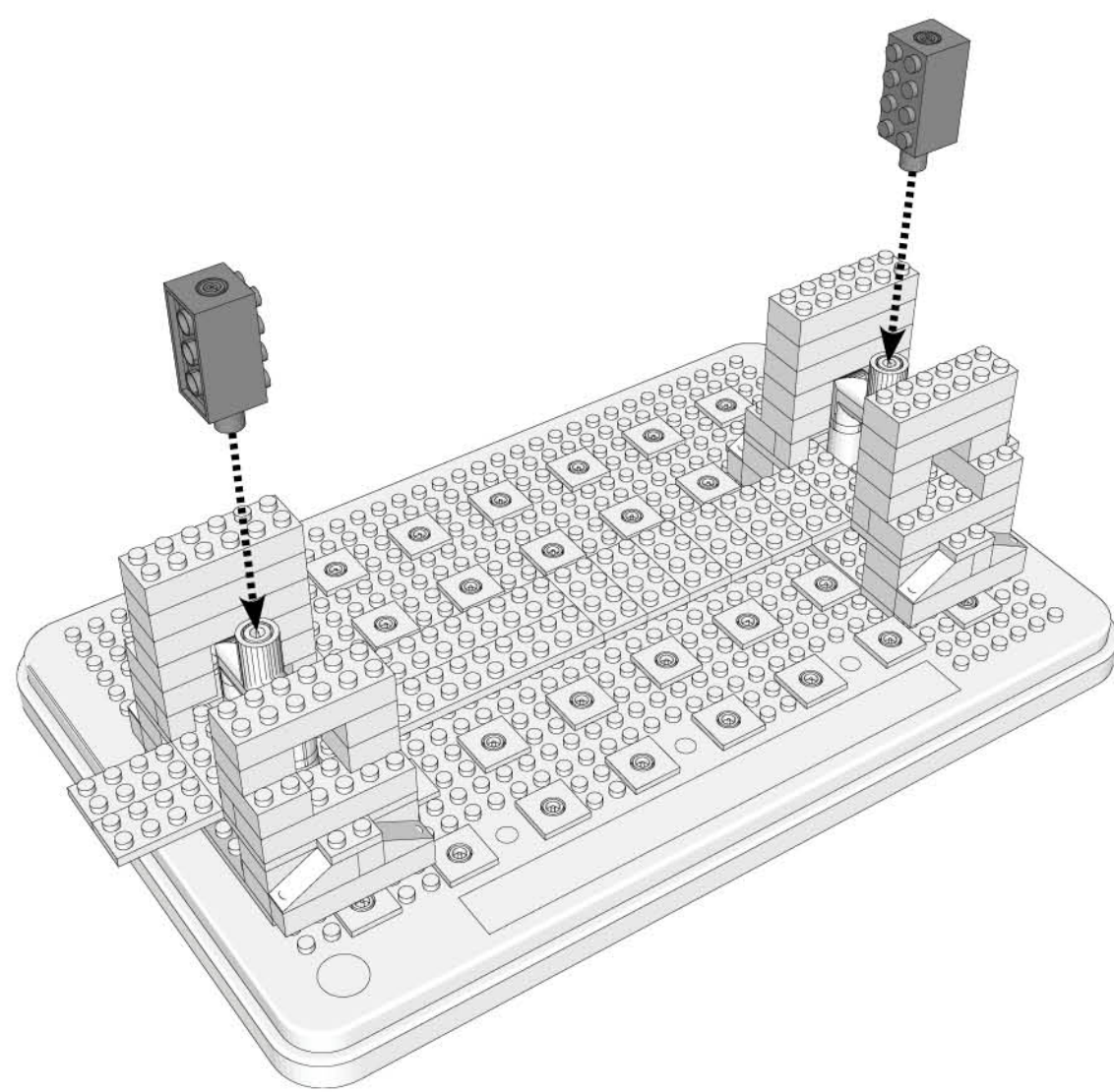


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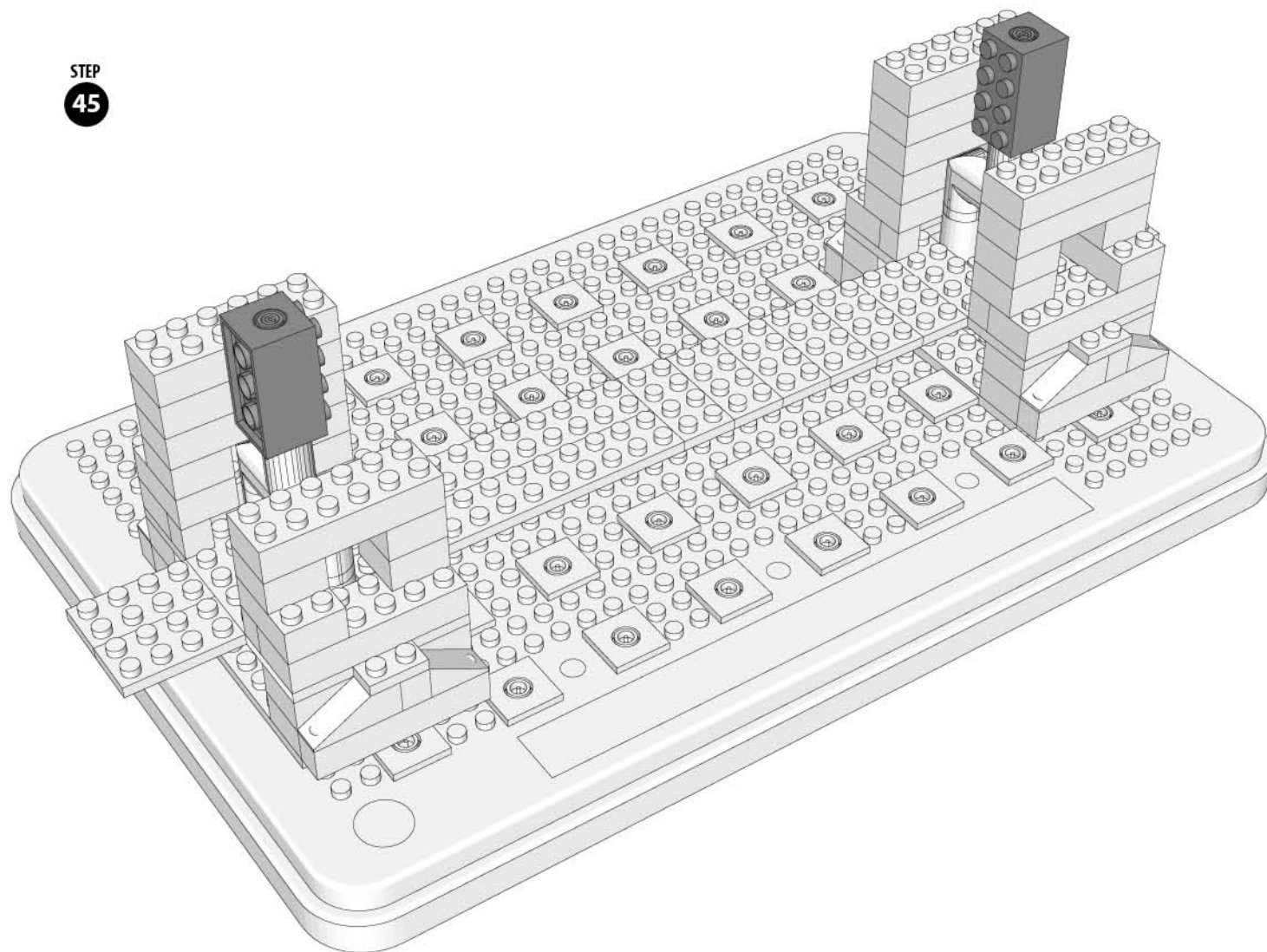




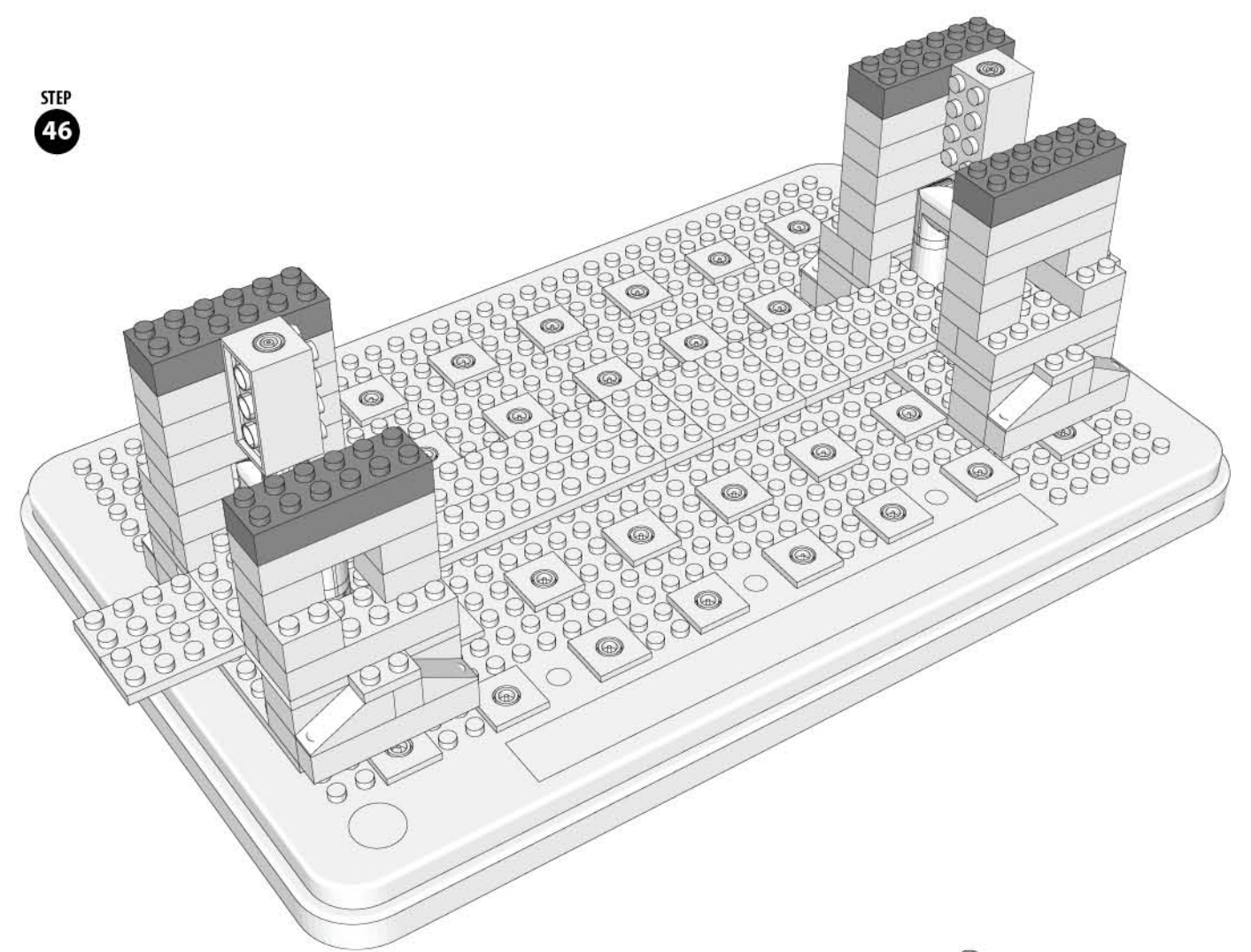
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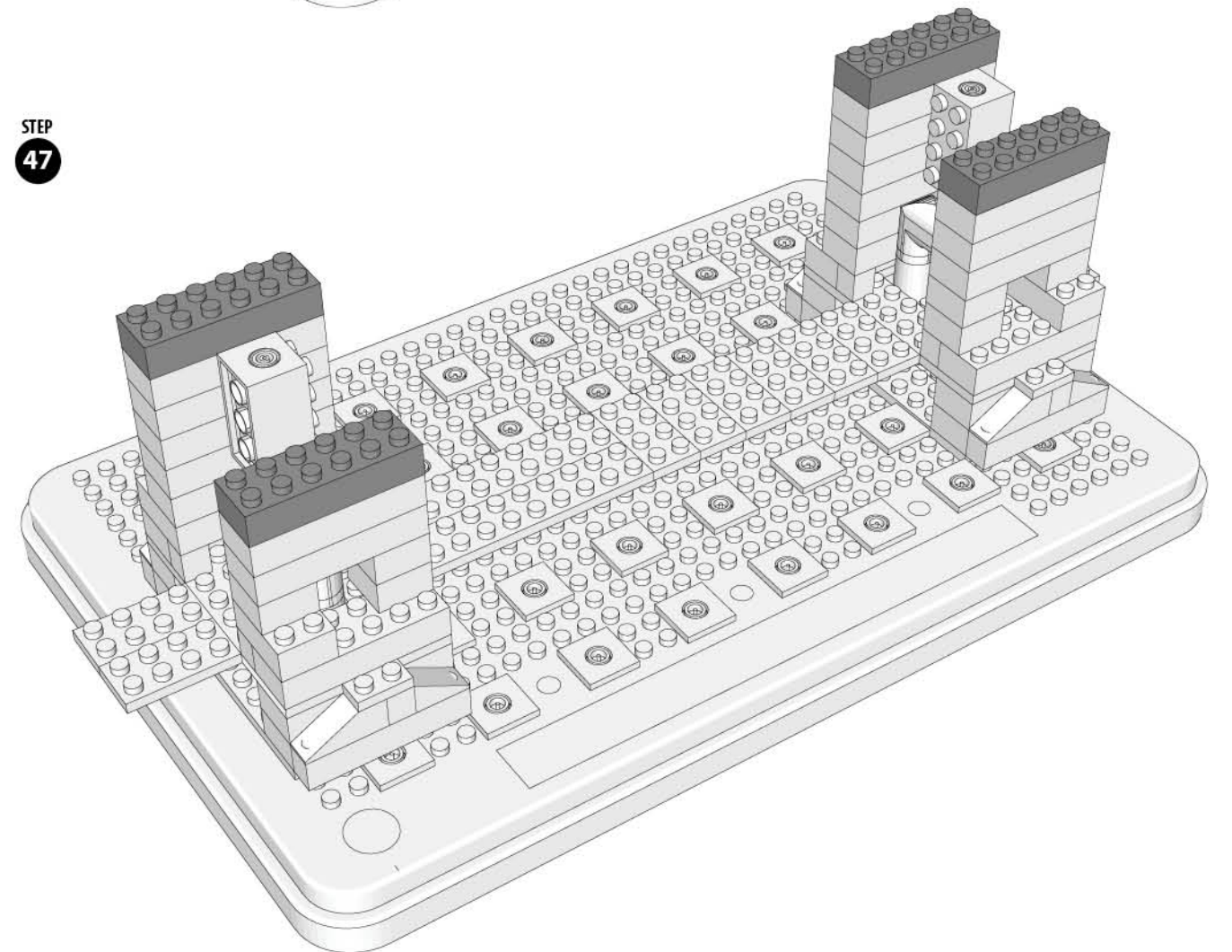
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45



STEP  
46

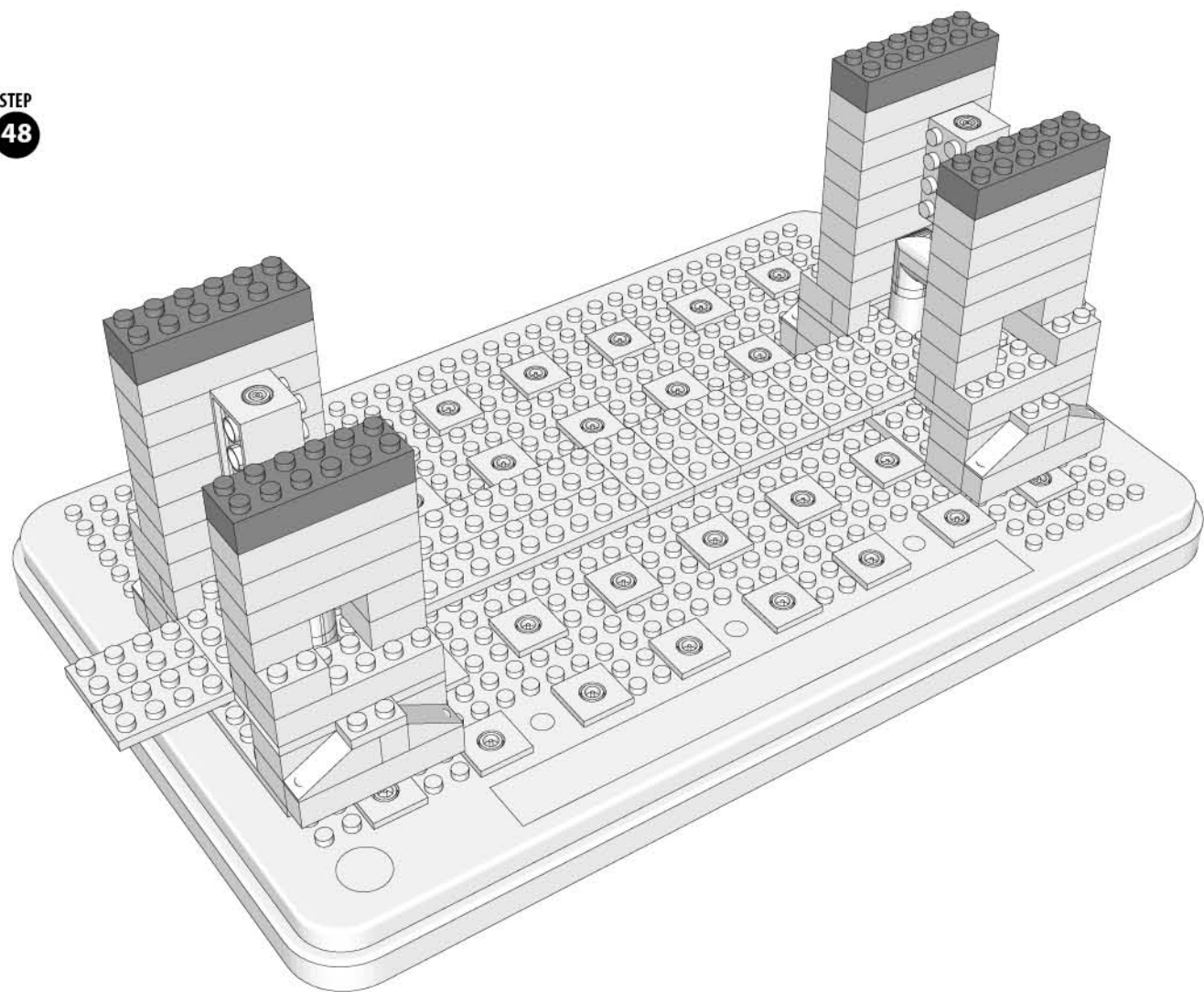


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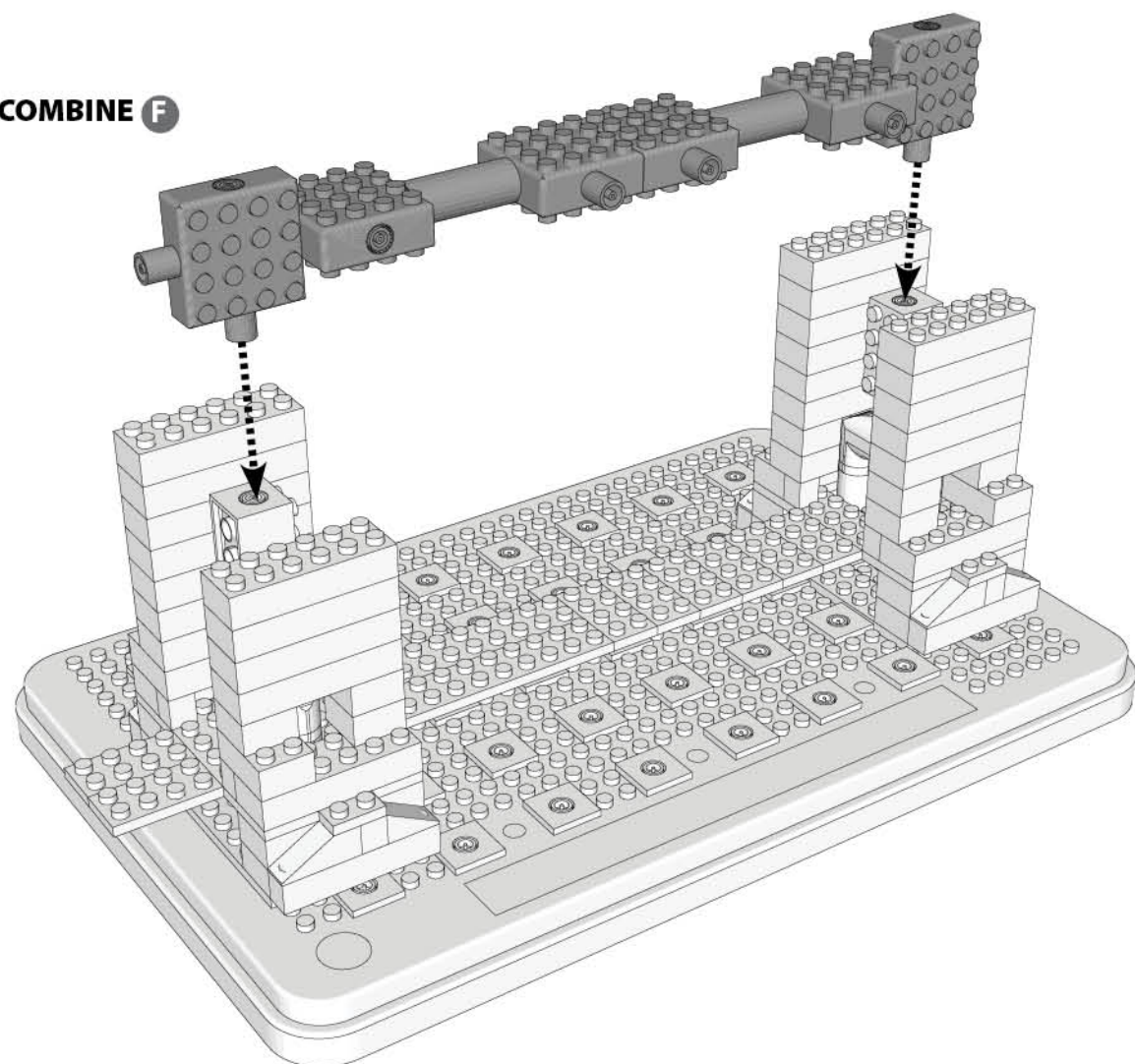


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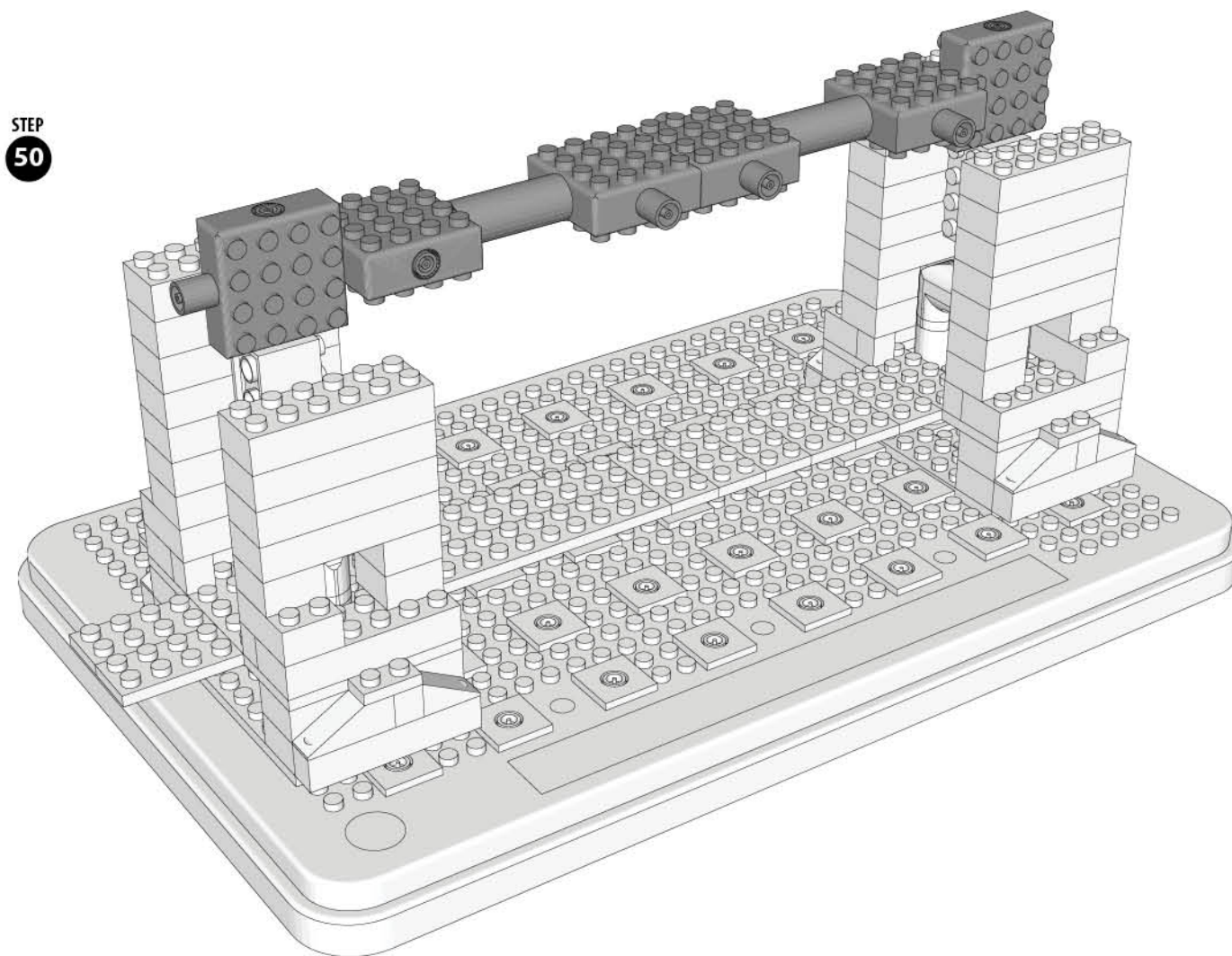


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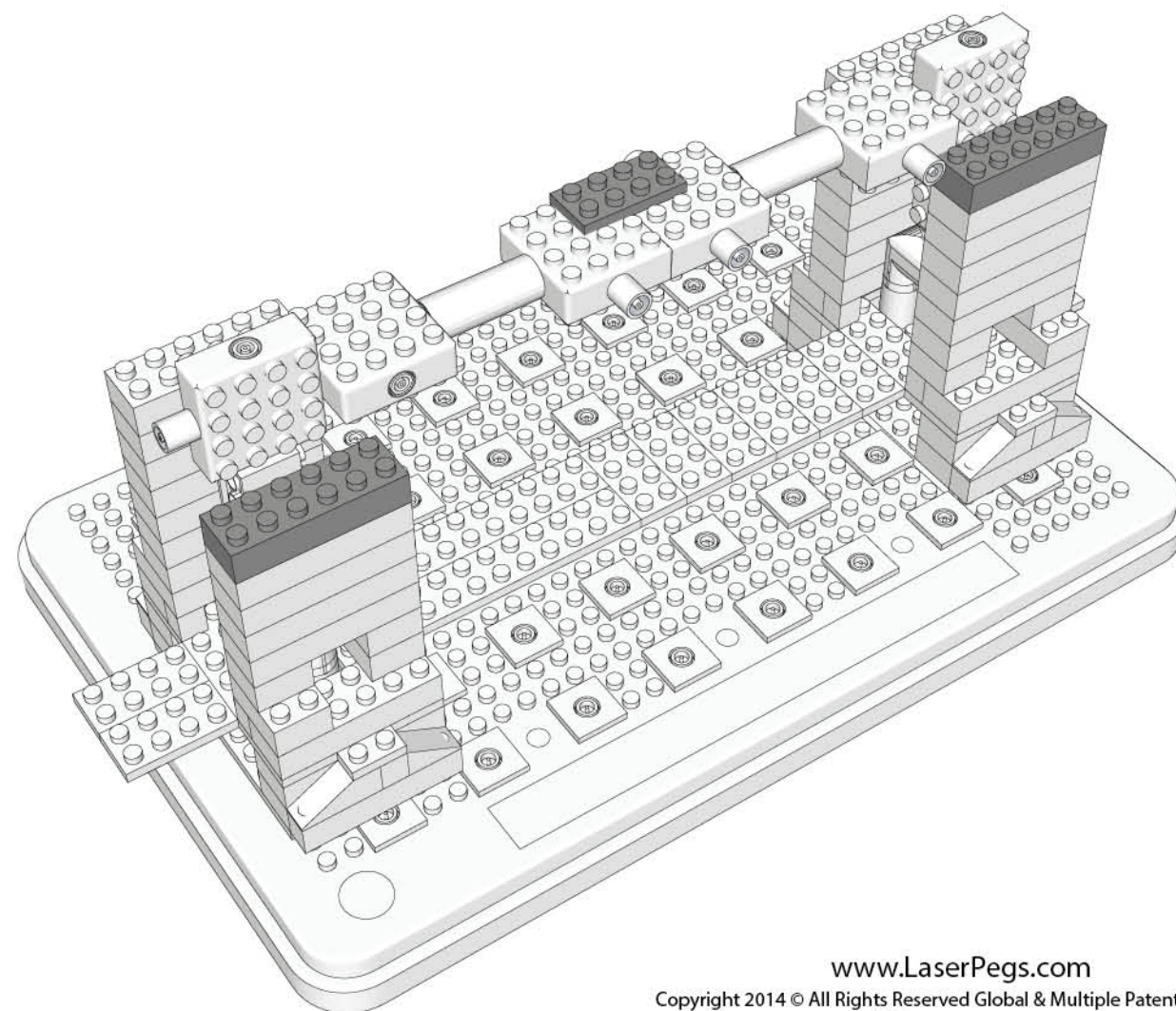
COMBINE F



STEP  
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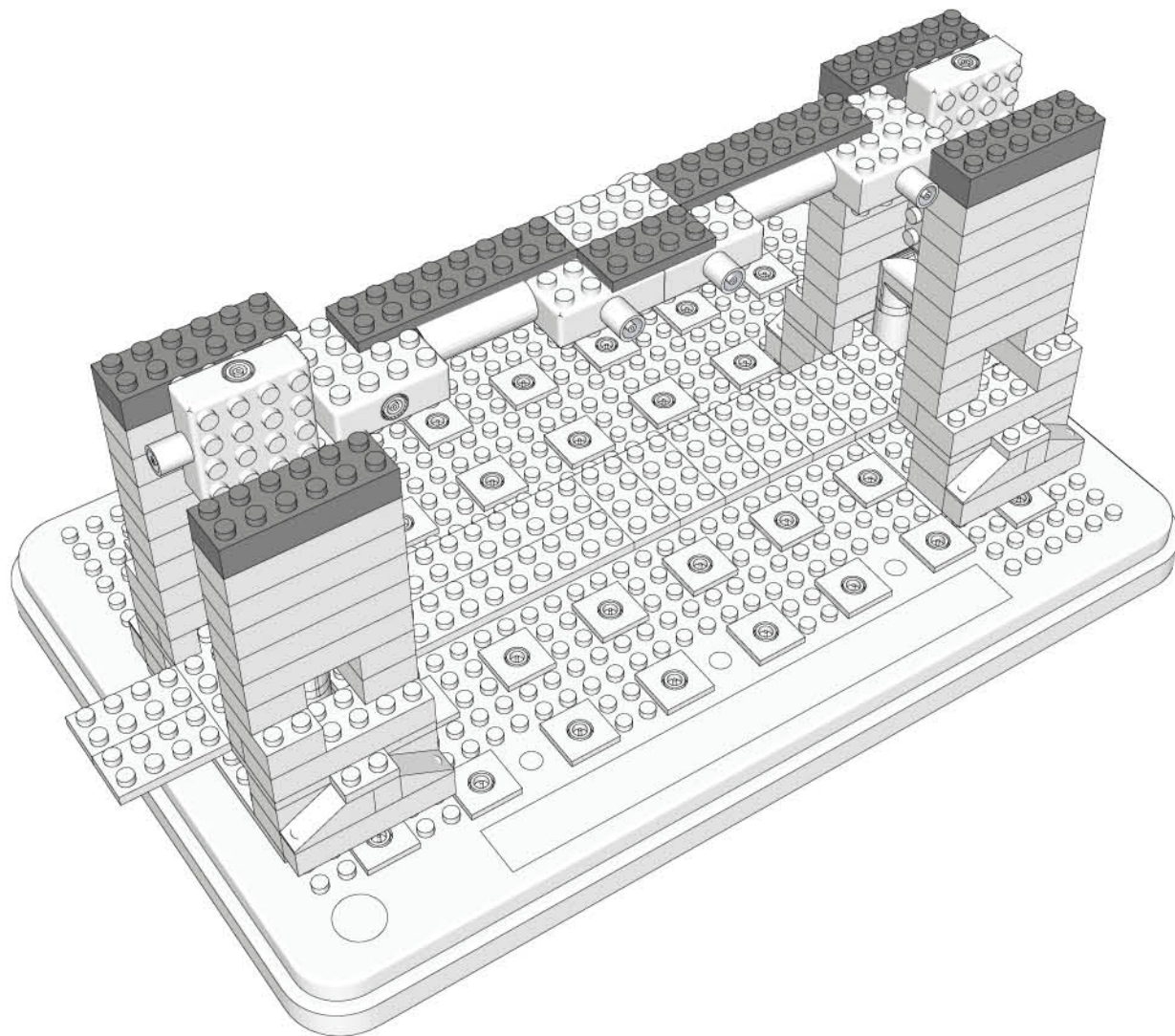


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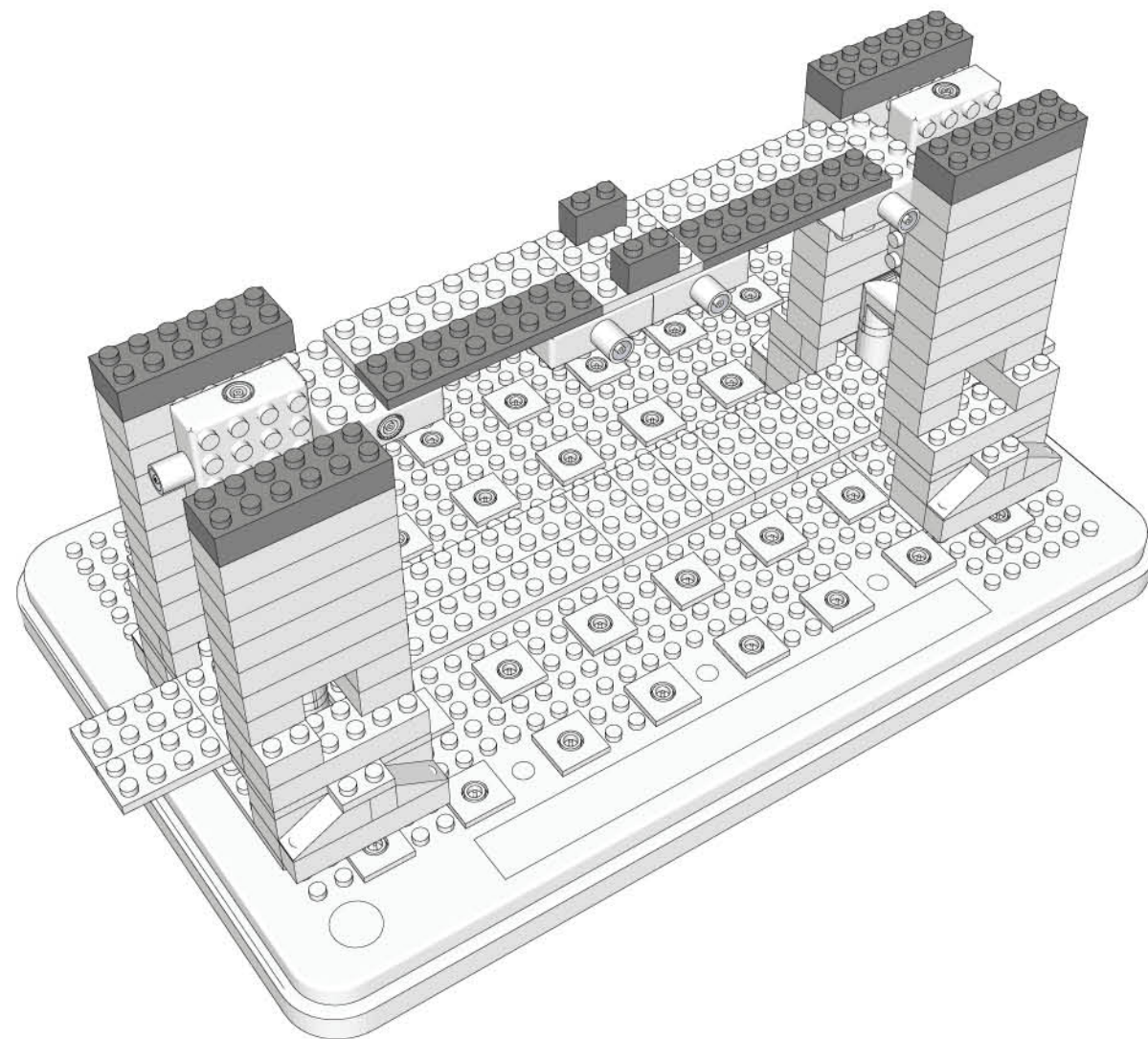




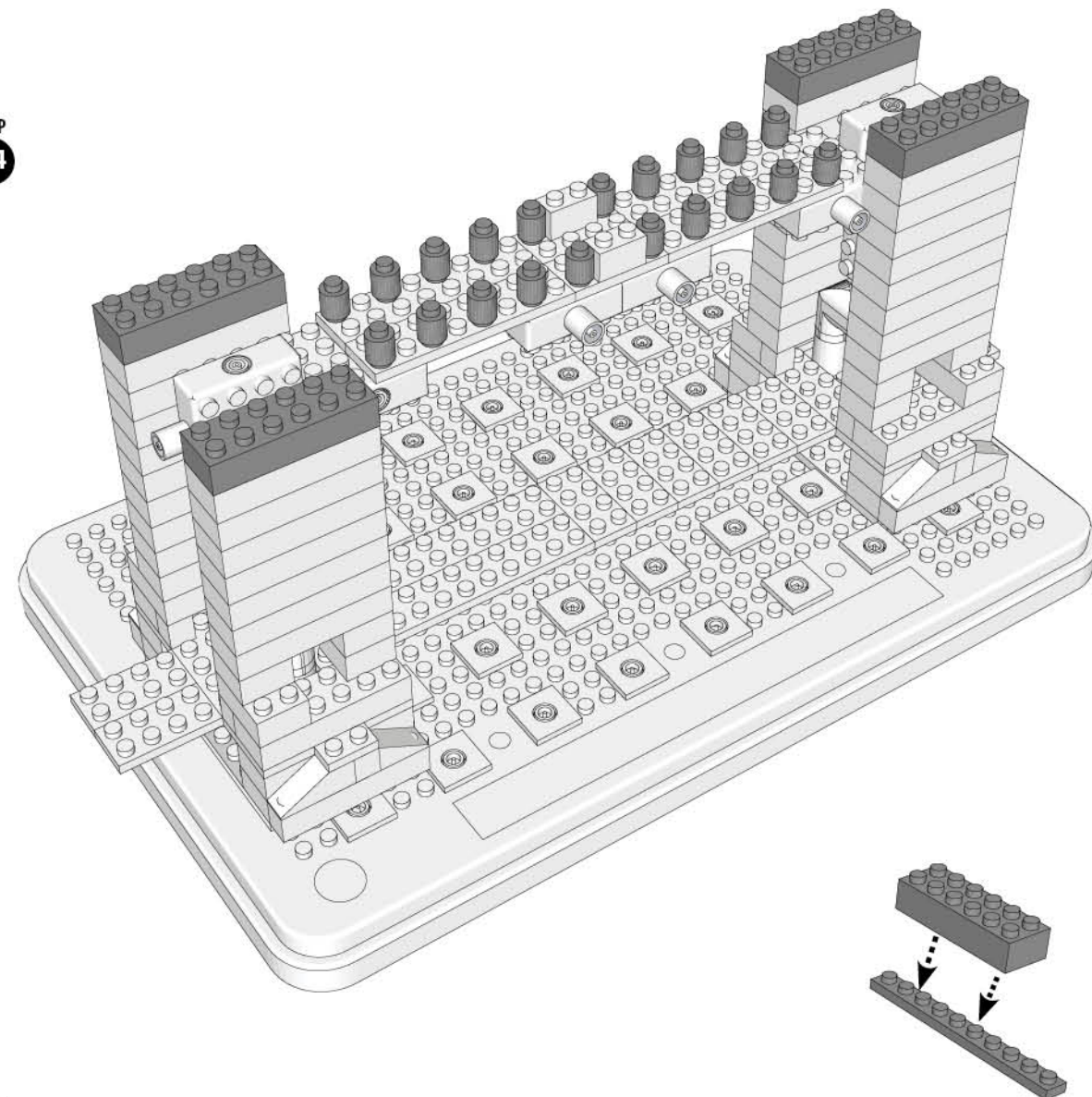
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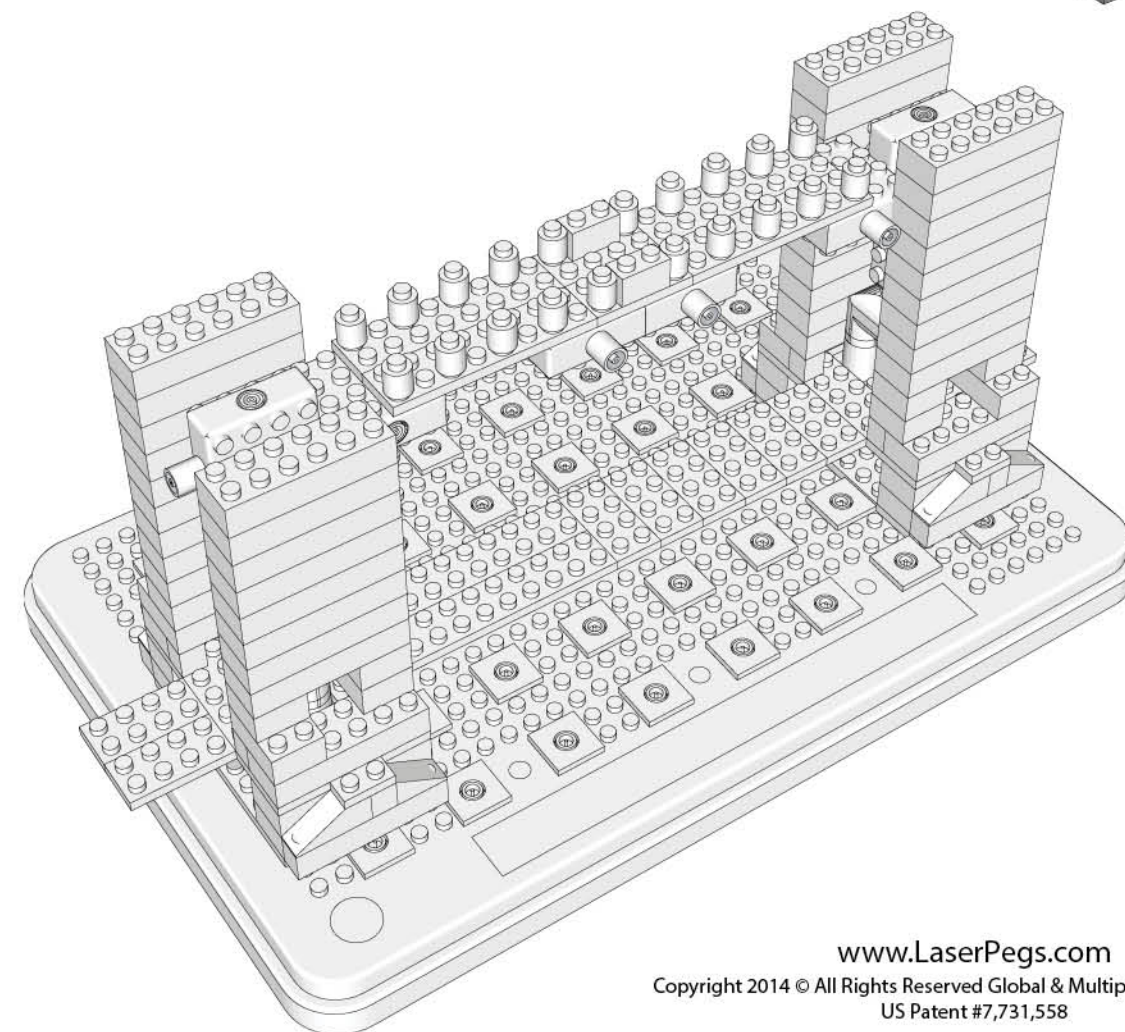
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STEP  
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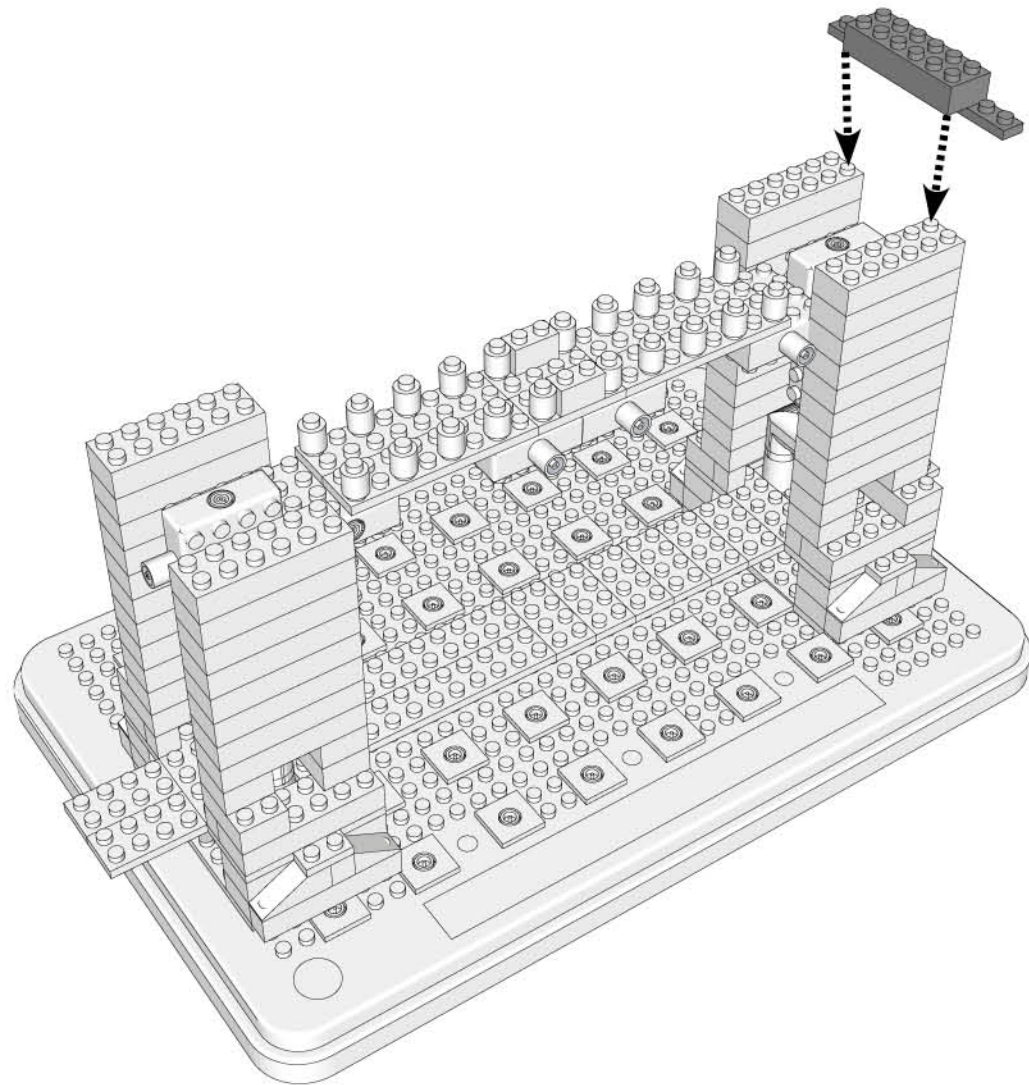


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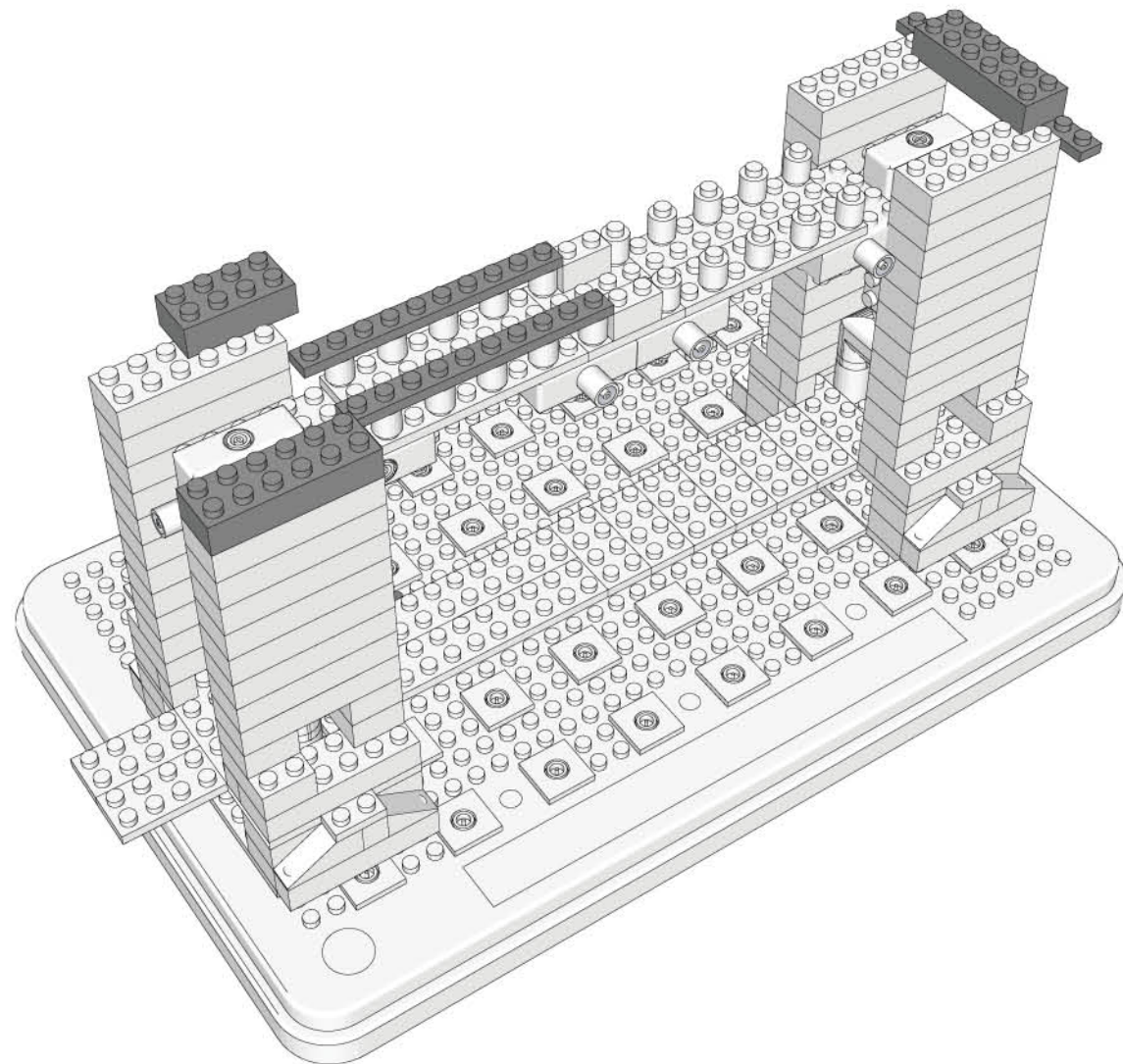




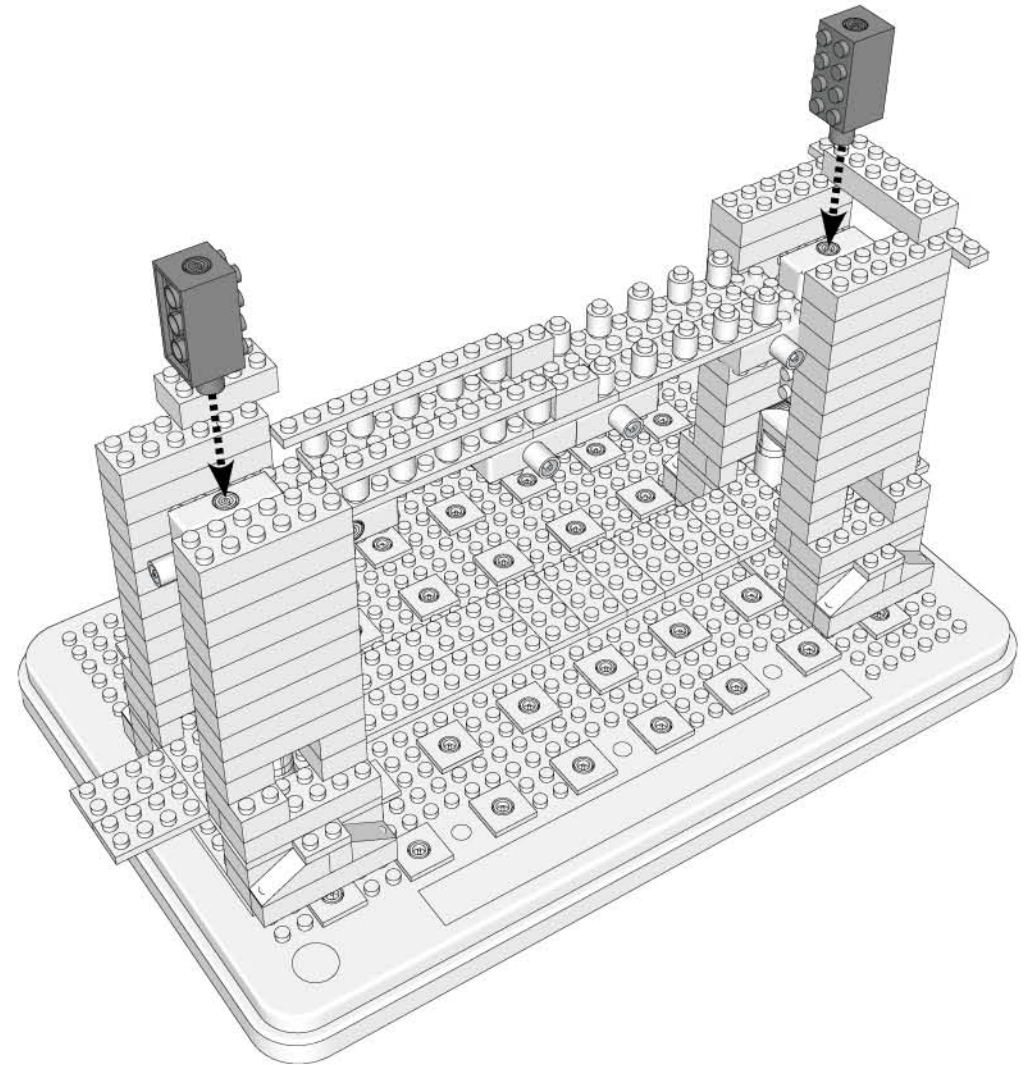
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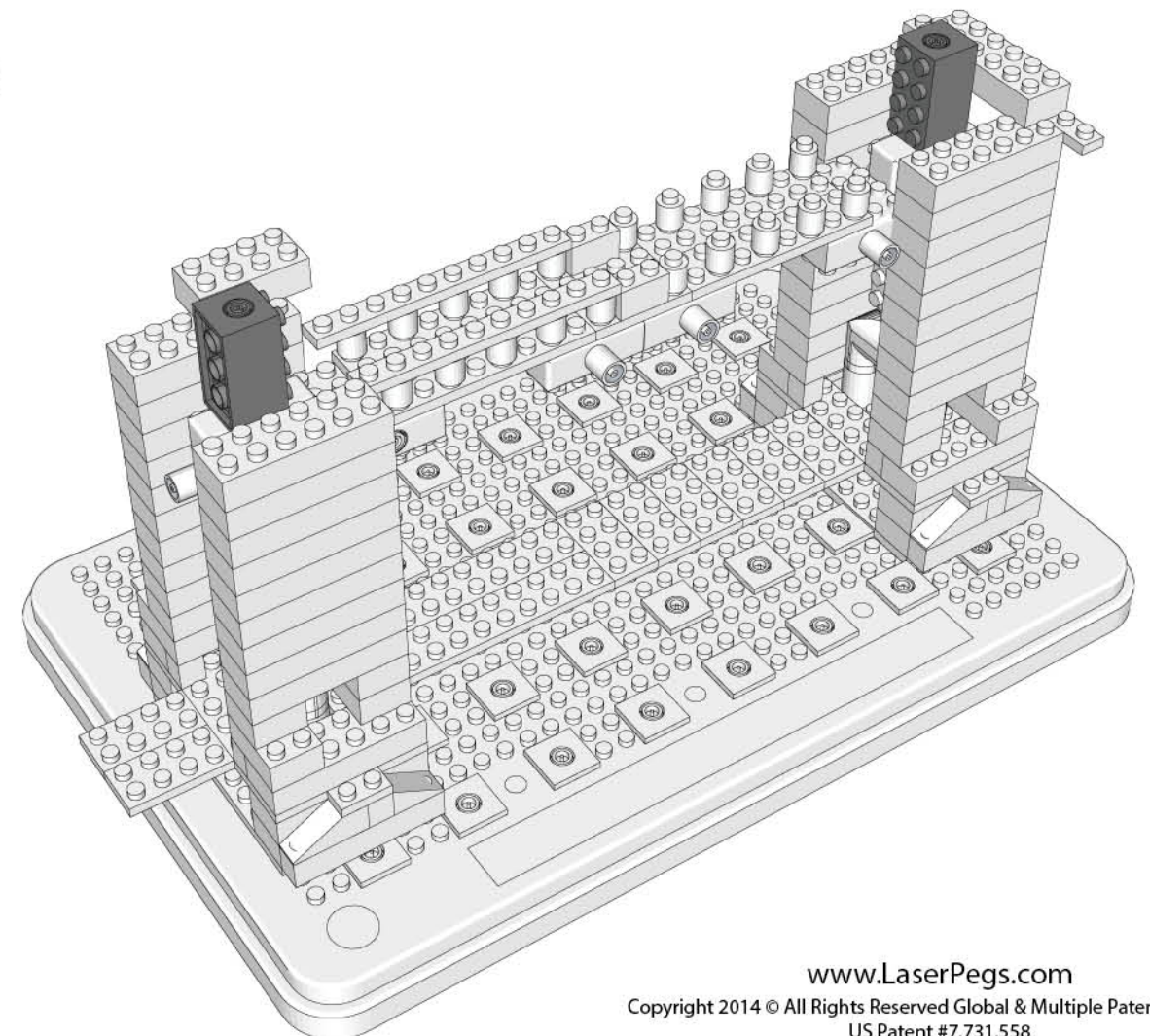
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STEP  
58

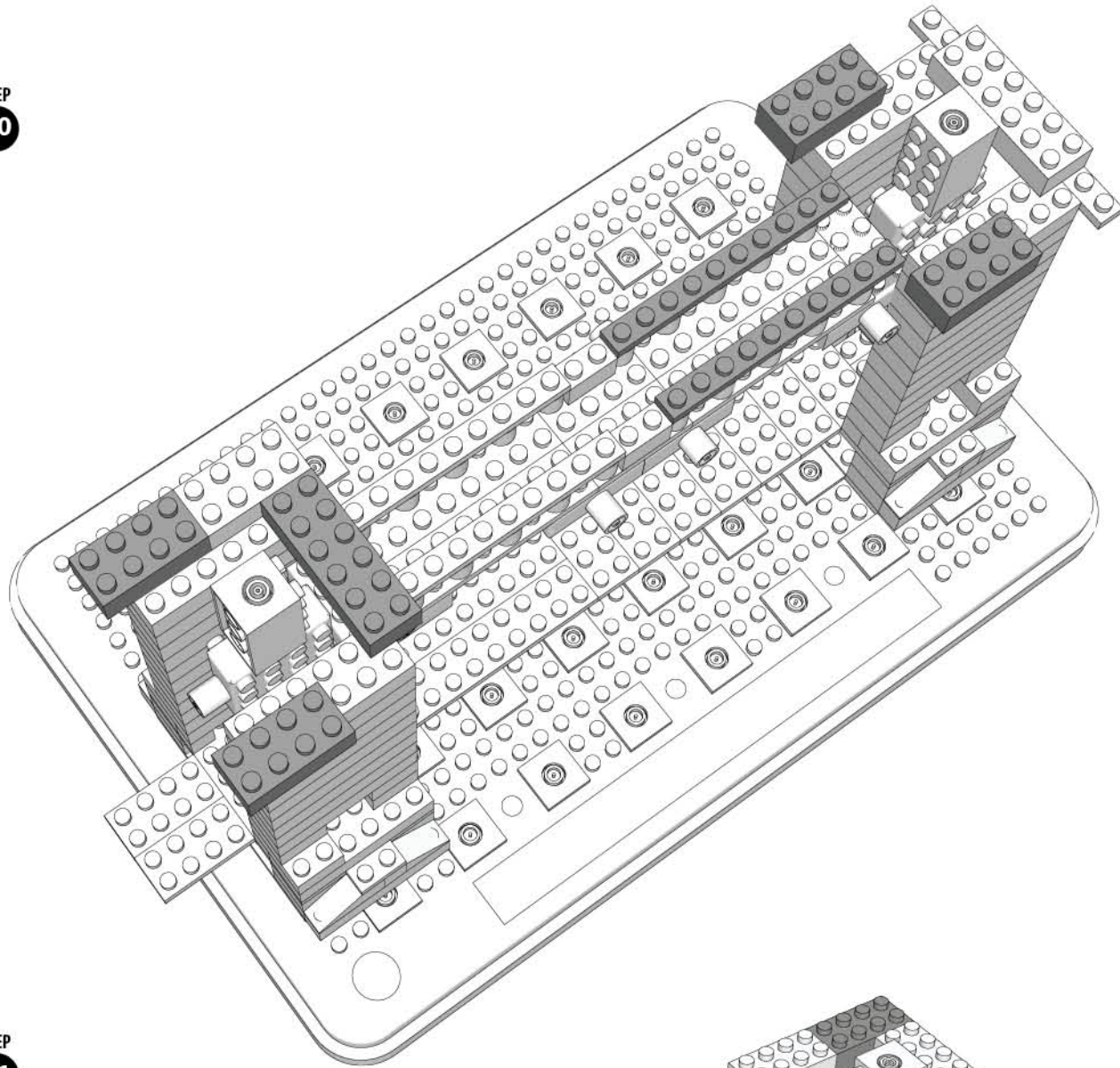


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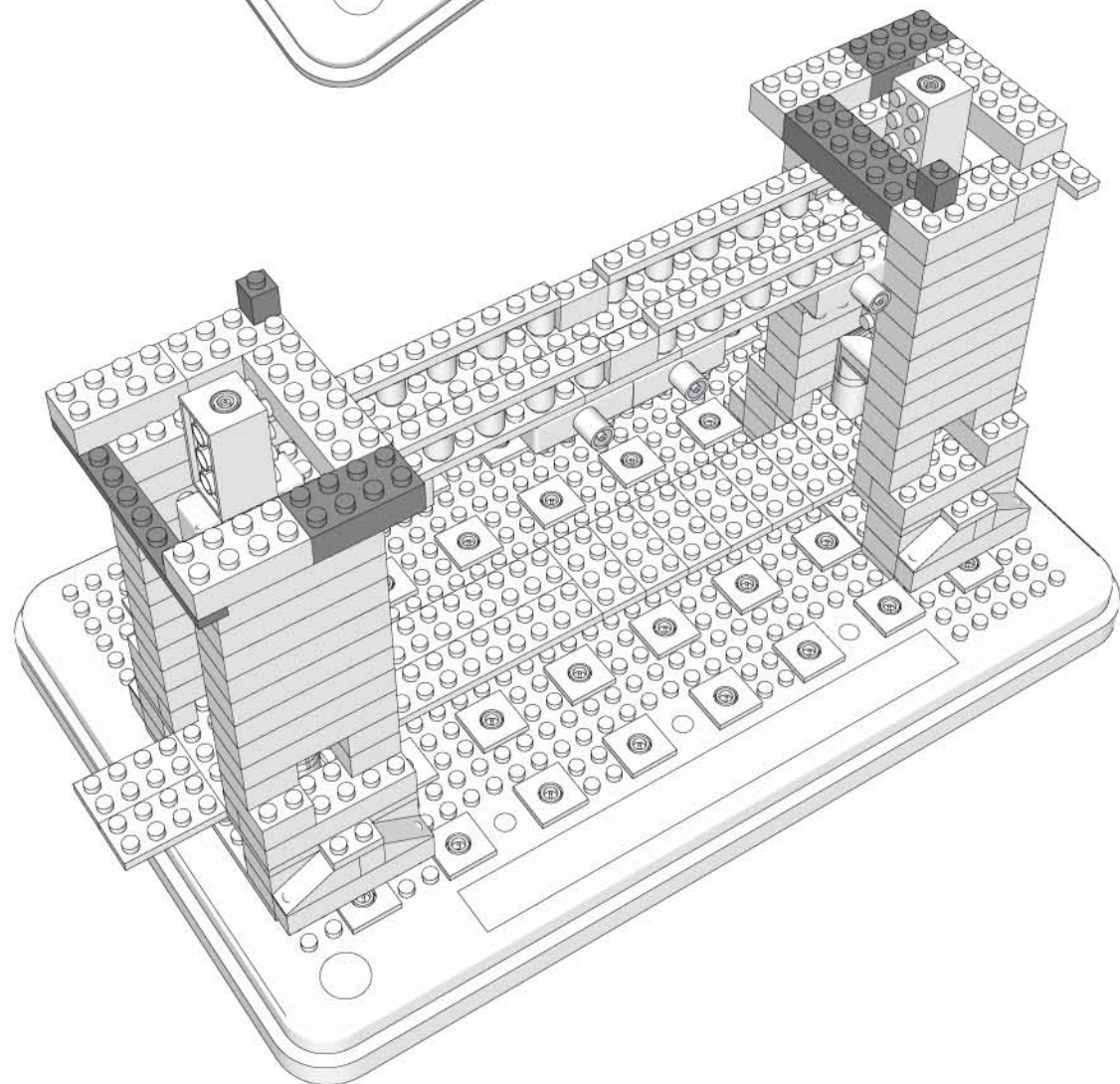




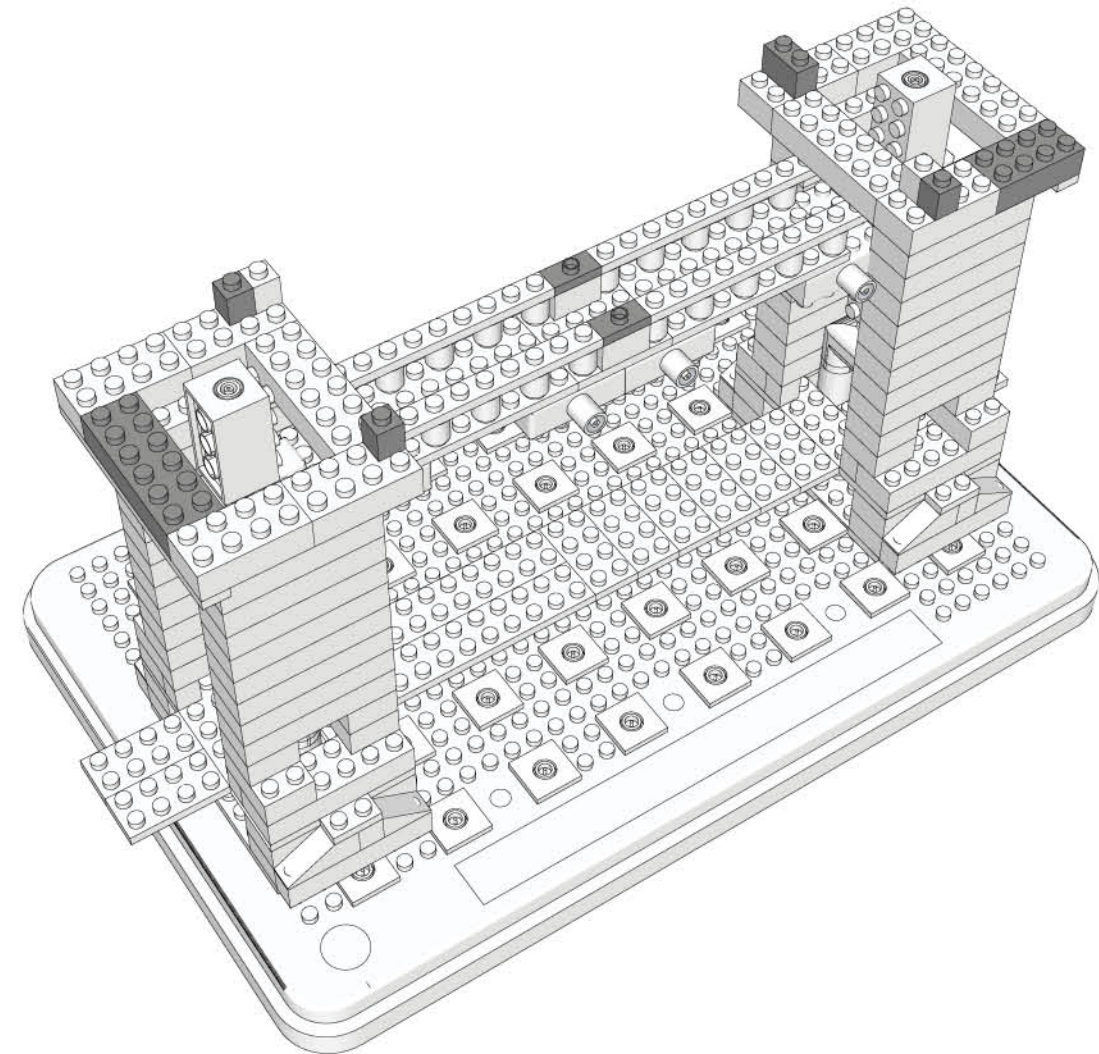
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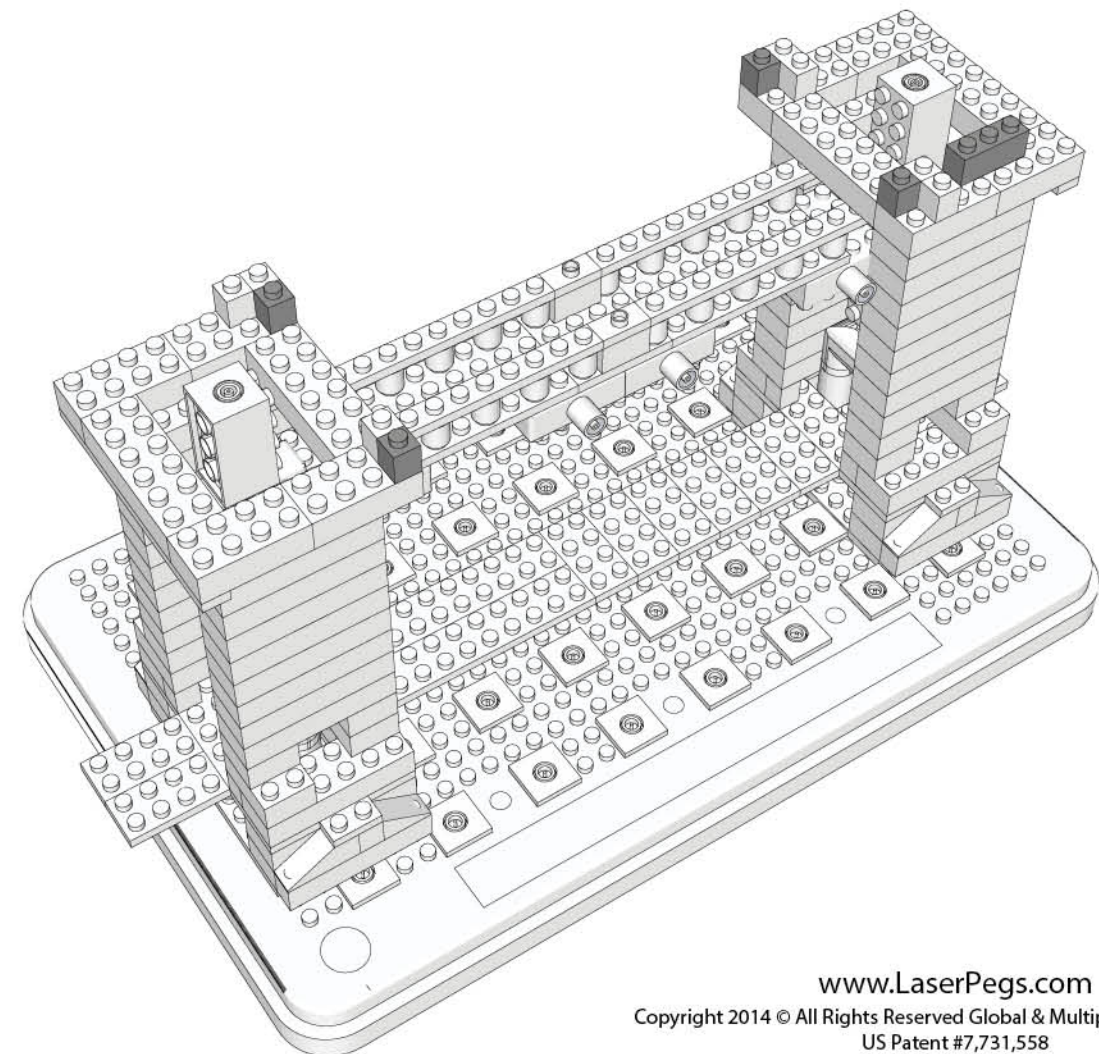
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STEP  
62

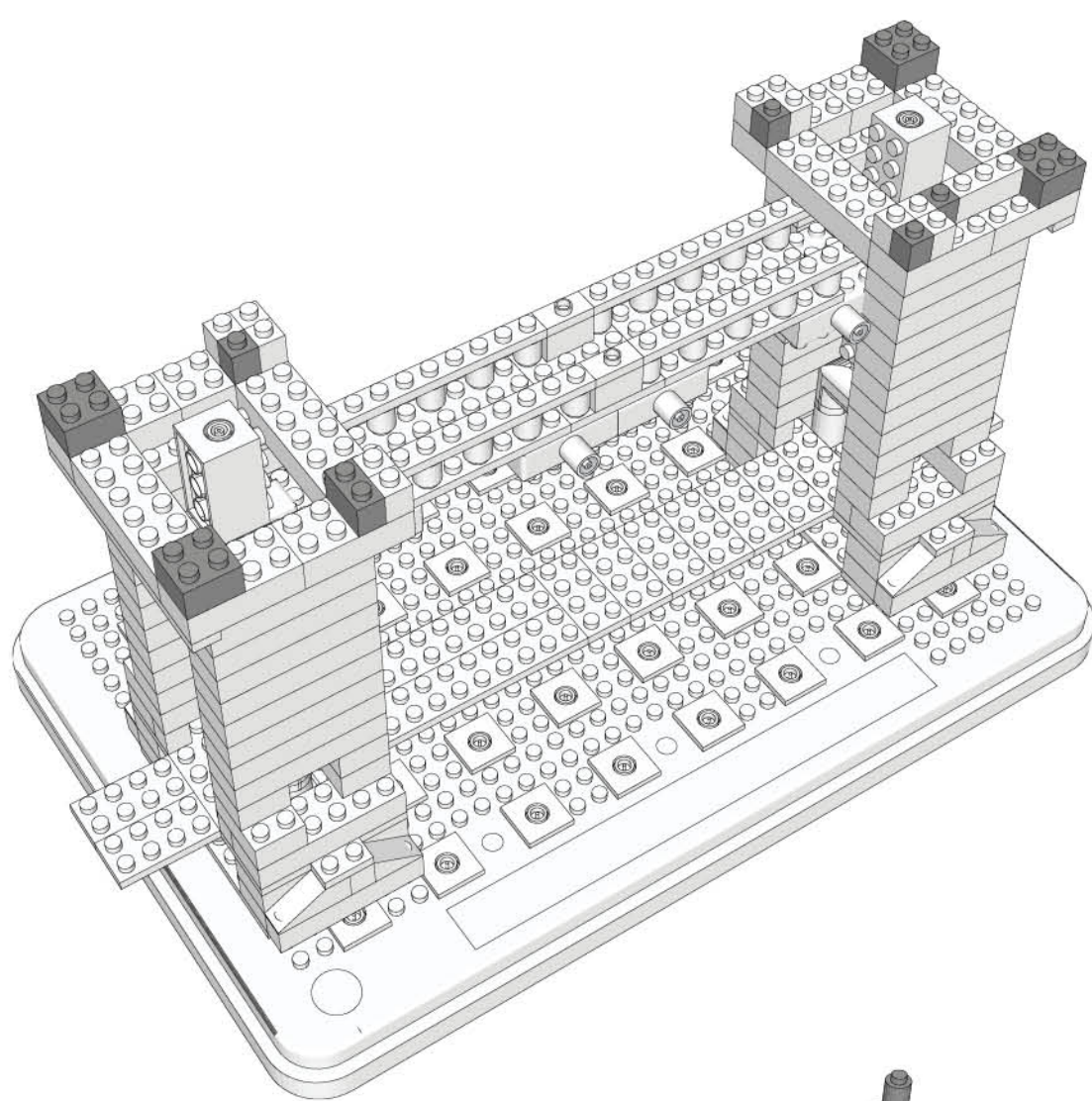


STEP  
63

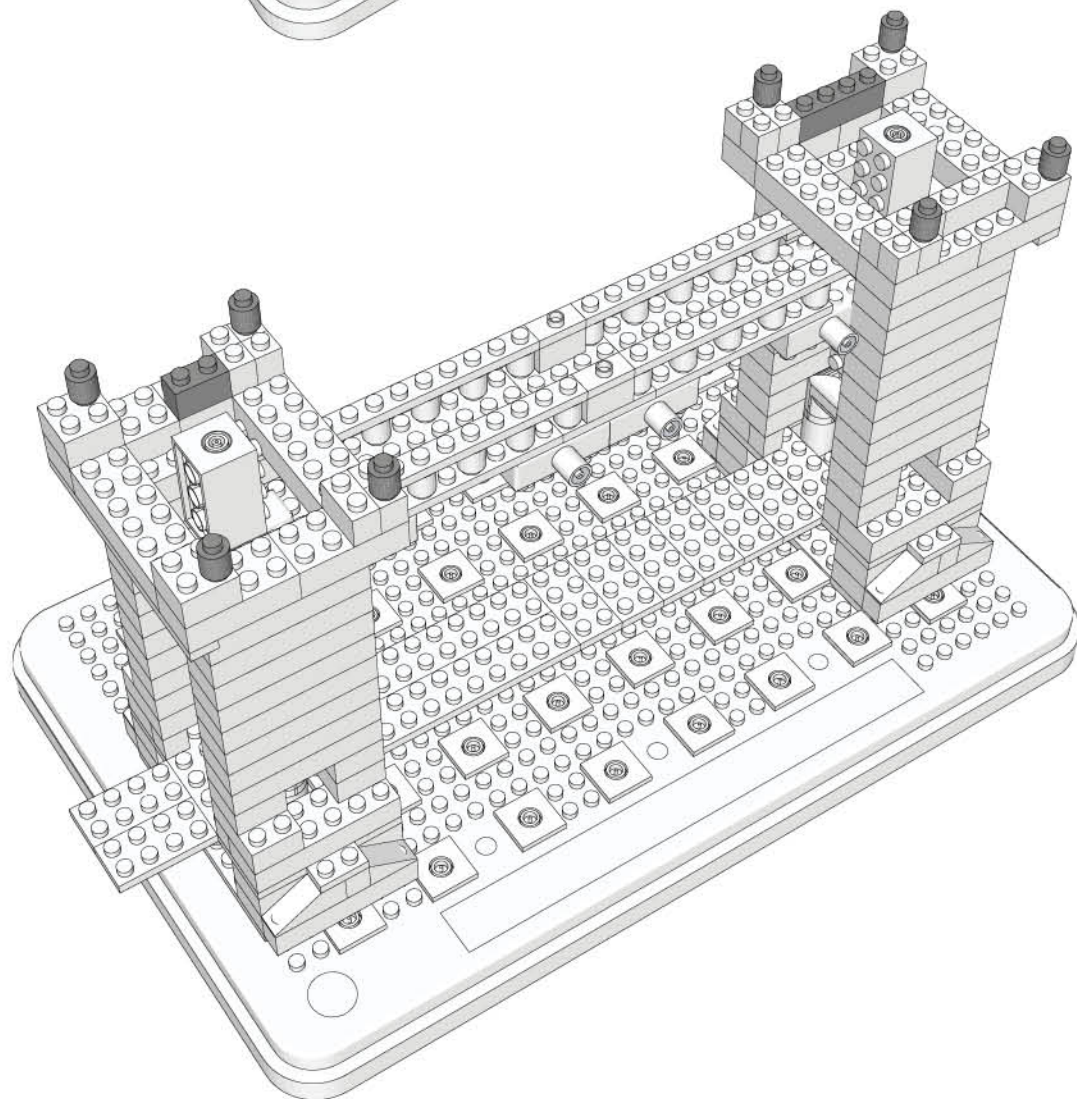




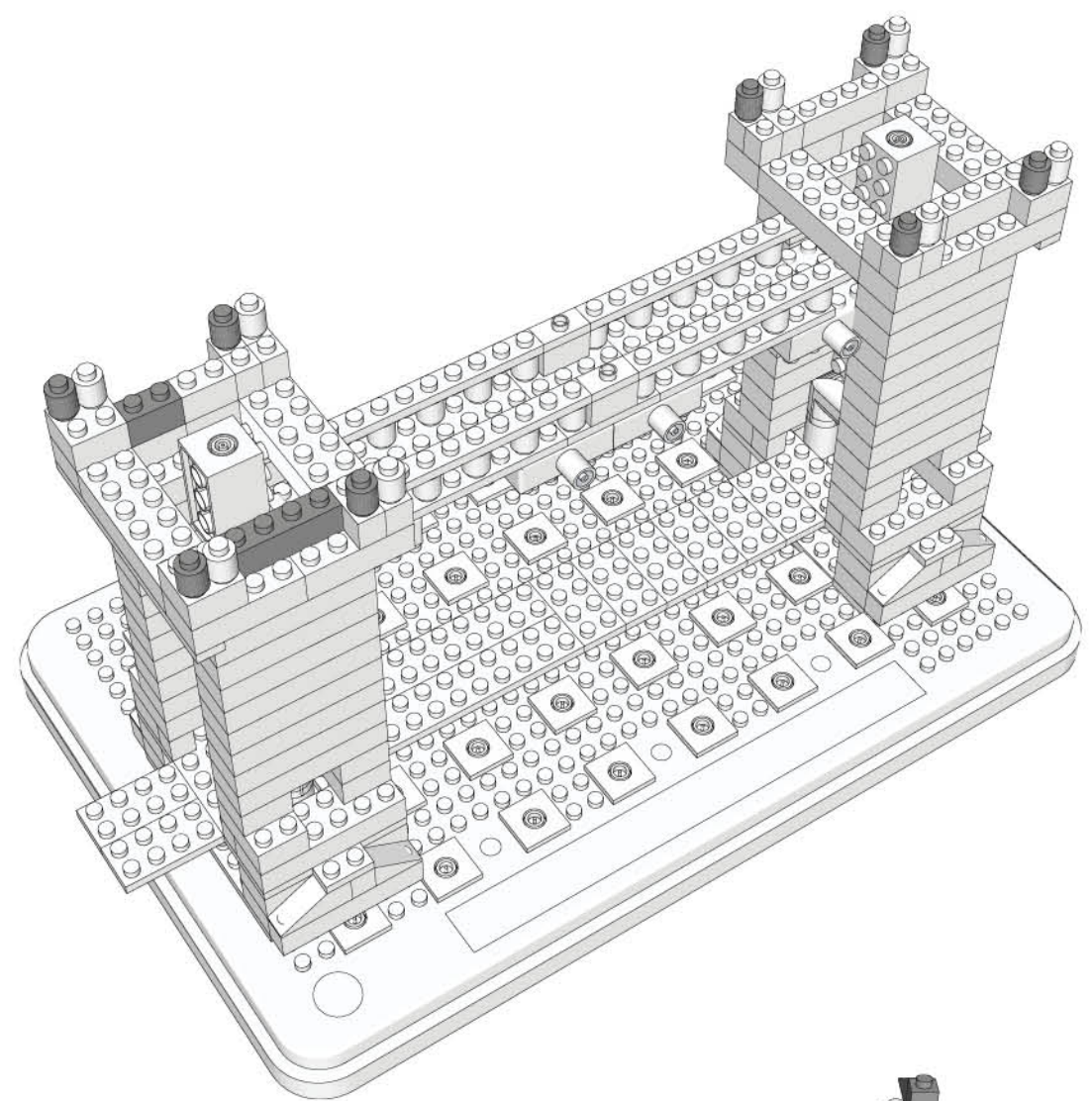
STEP  
64



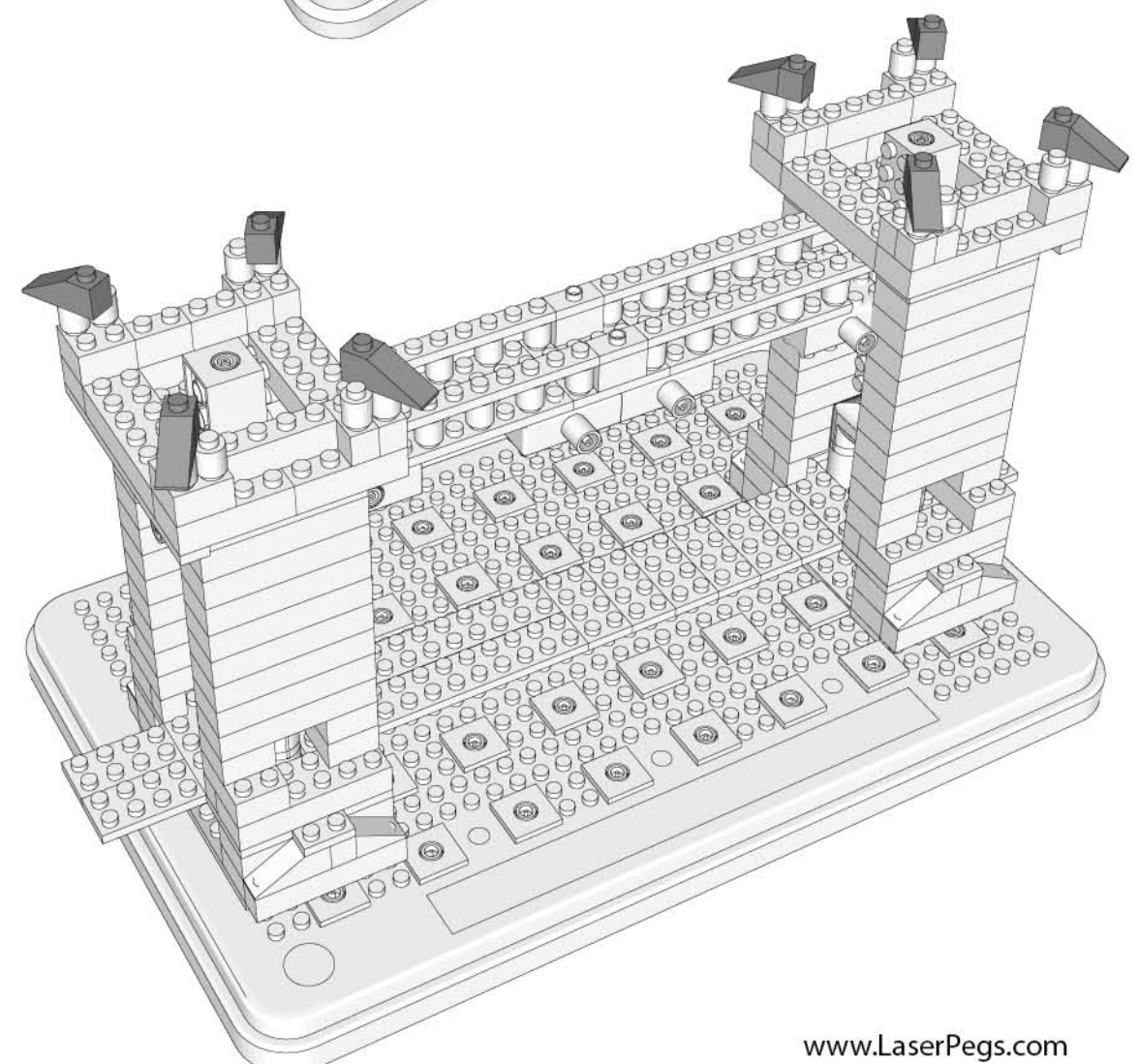
STEP  
65



STEP  
66



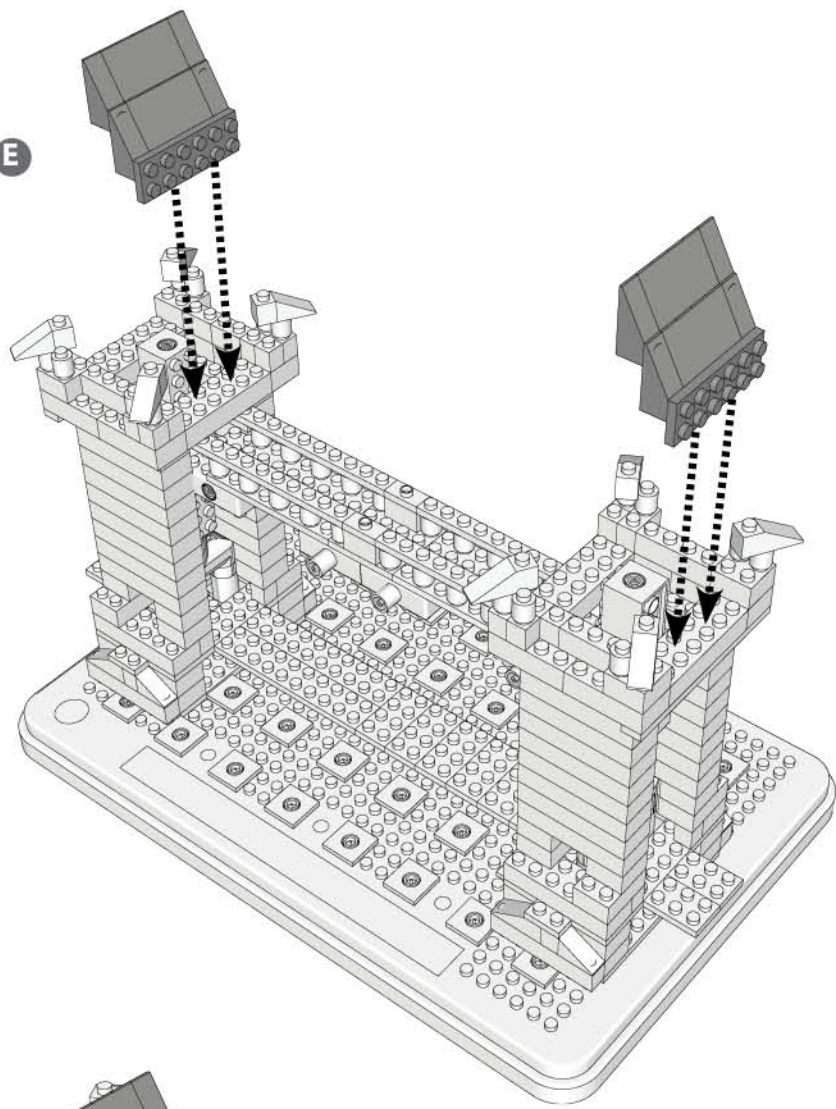
STEP  
67



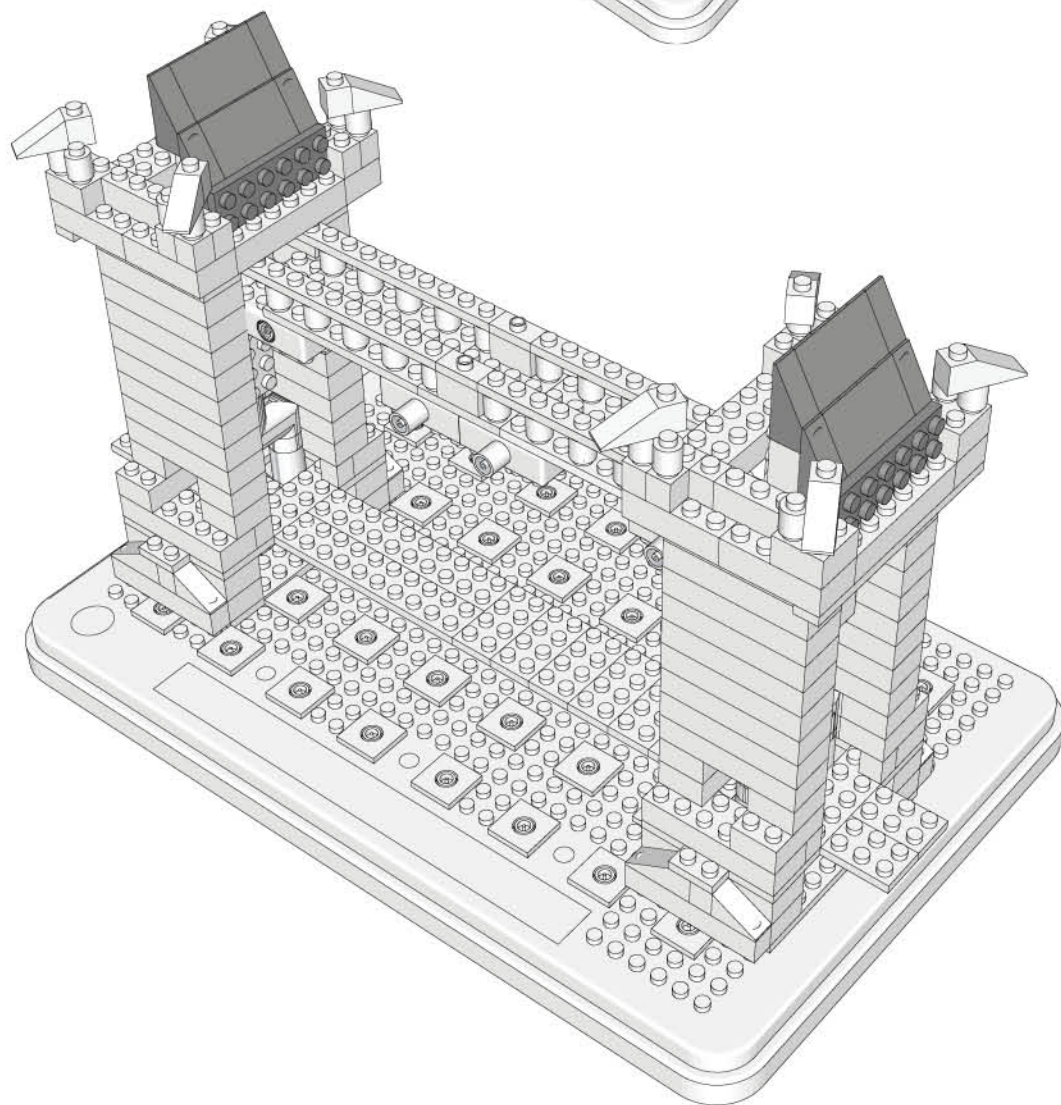


STEP  
68 COMBINE E

ROTATE

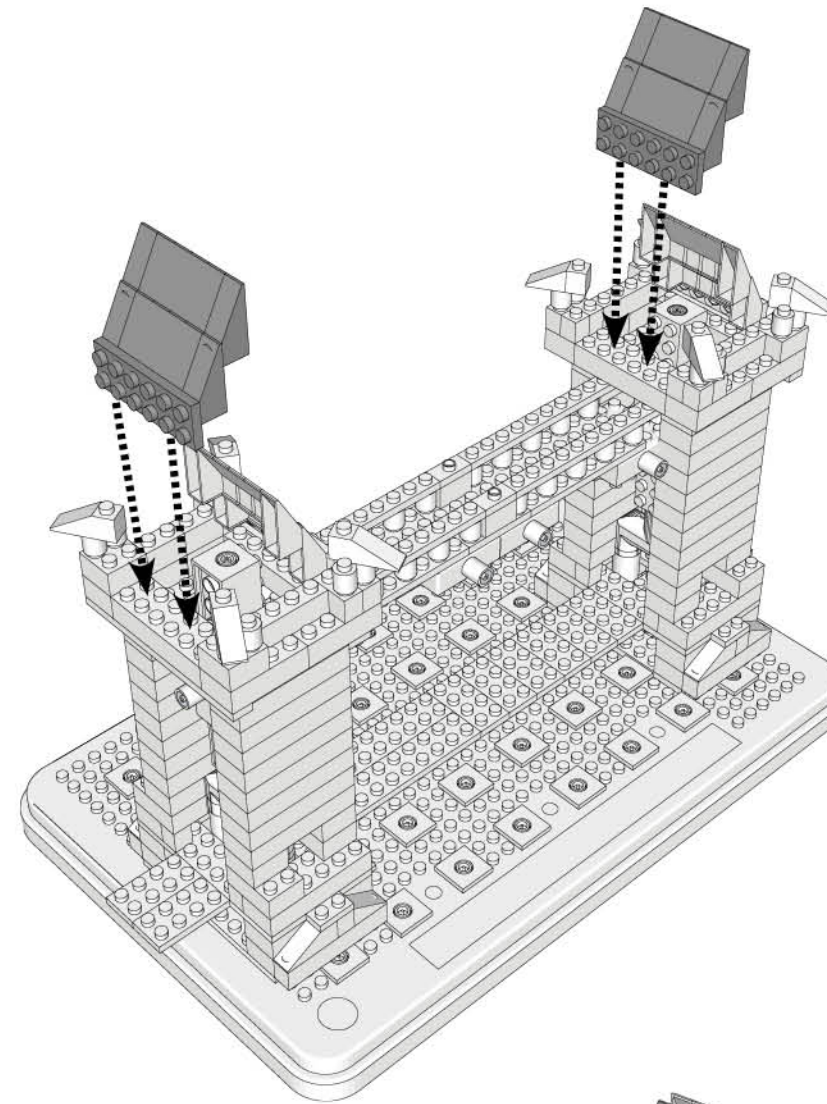


STEP  
69

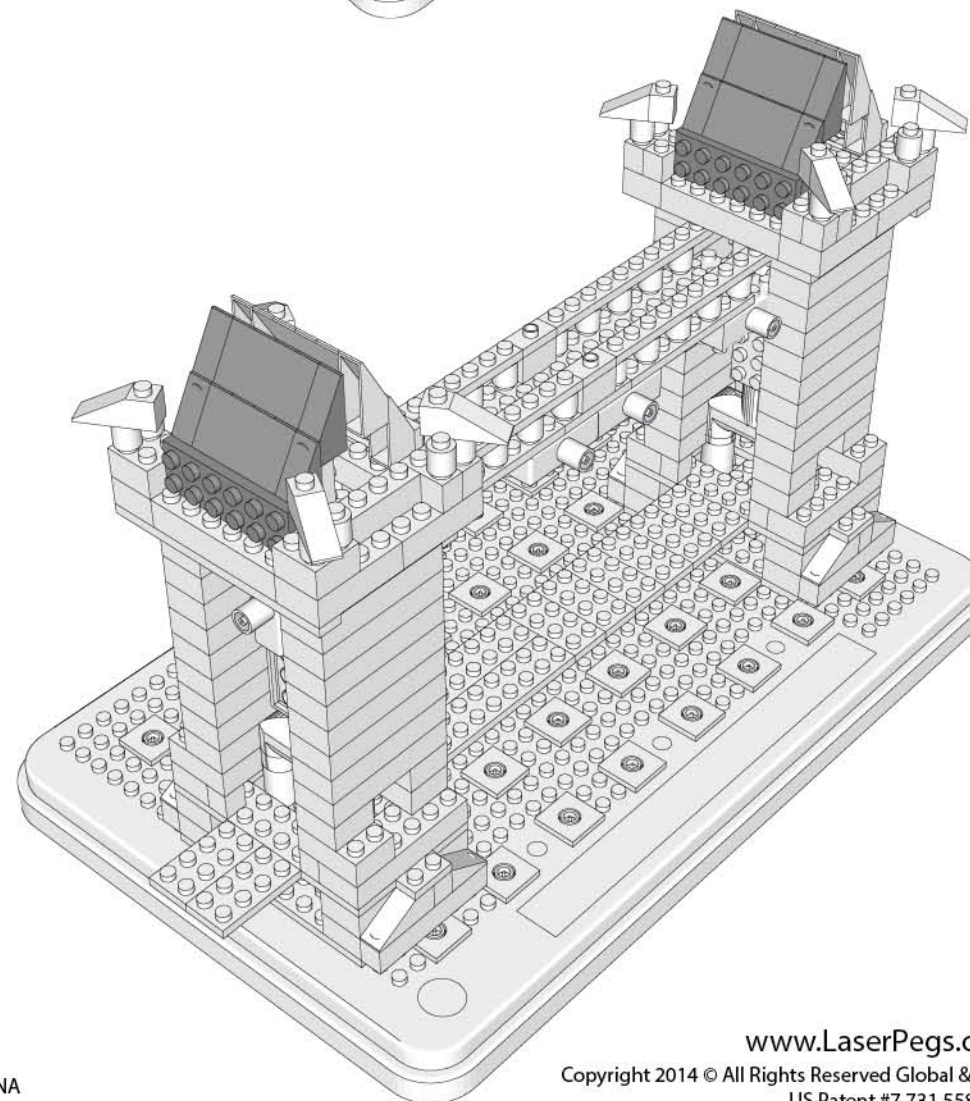


STEP  
70 COMBINE E

ROTATE



STEP  
71



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