

Instructions for modifying of the
Lego® Technic 8043 Motorized Excavator
into the

ULTIMATE 8043



This mod will give the 8043:

- * 8878 Rechargeable battery
- * Complete simultaneous control of all the motorized functions
- * Joystick-controller that works just like a real excavator
- * XL-motor for more considerable boom-lifting power
- * PF-lights
- * More realistic bucket looks & larger operating range
- * Larger operating range for the dipper
- * Roof for the cabin
- * All gear-reduction has been moved to the undercarriage to reduce the side-effects of transferring the drivetrain through the turntable

These modifications and instructions were made by Jurgen Krooshoop (Jurgens Technic Corner)

See my models in action:

<http://www.youtube.com/user/Rhodeslover1>

More info & models can be found at my MOC-page:

<http://www.mocpages.com/home.php/21811>

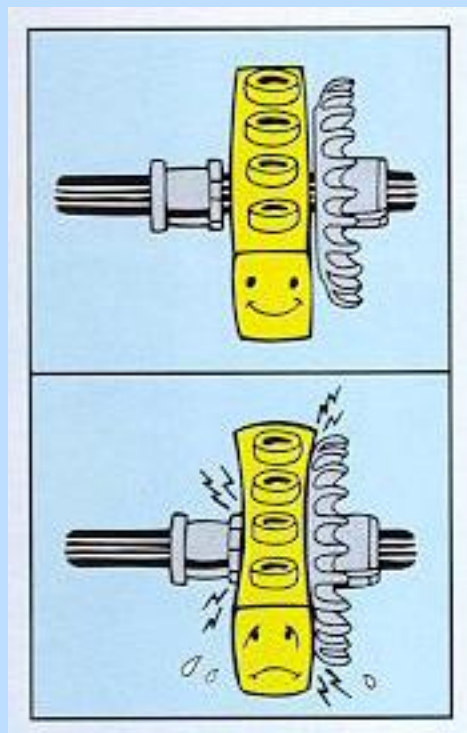
and my brickshelf-folder:

<http://www.brickshelf.com/cgi-bin/gallery.cgi?m=Jurgmeister>

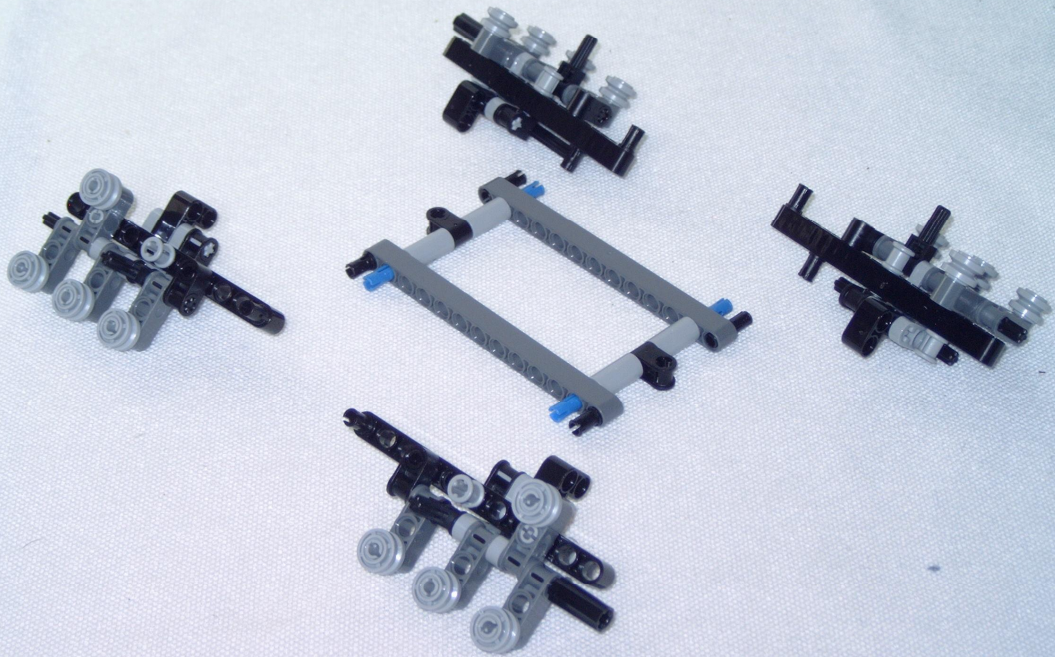
The original instructions are available at

<http://www.brickset.com/detail/?Set=8043-1>

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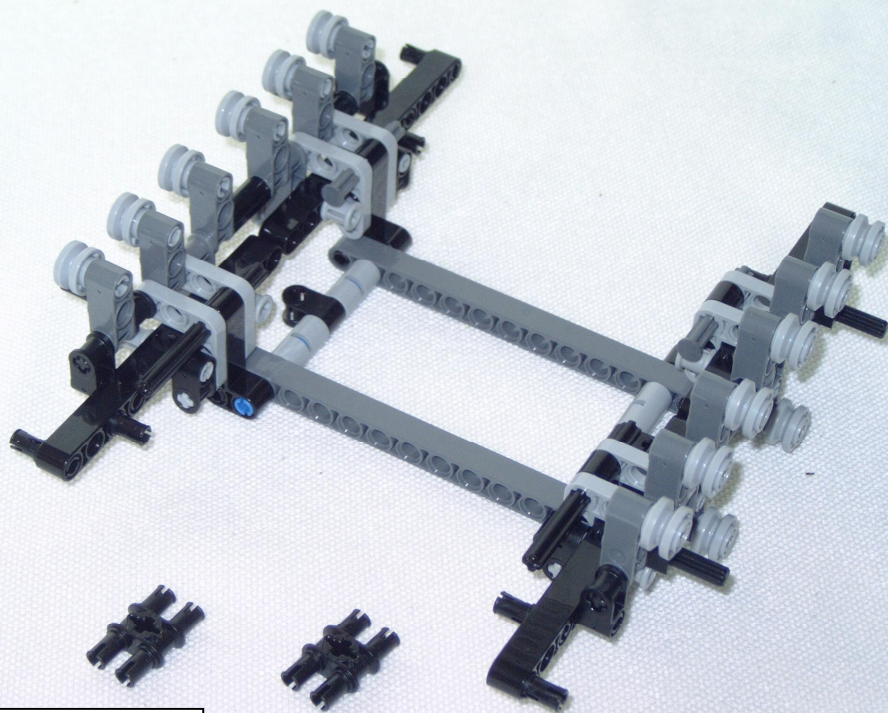


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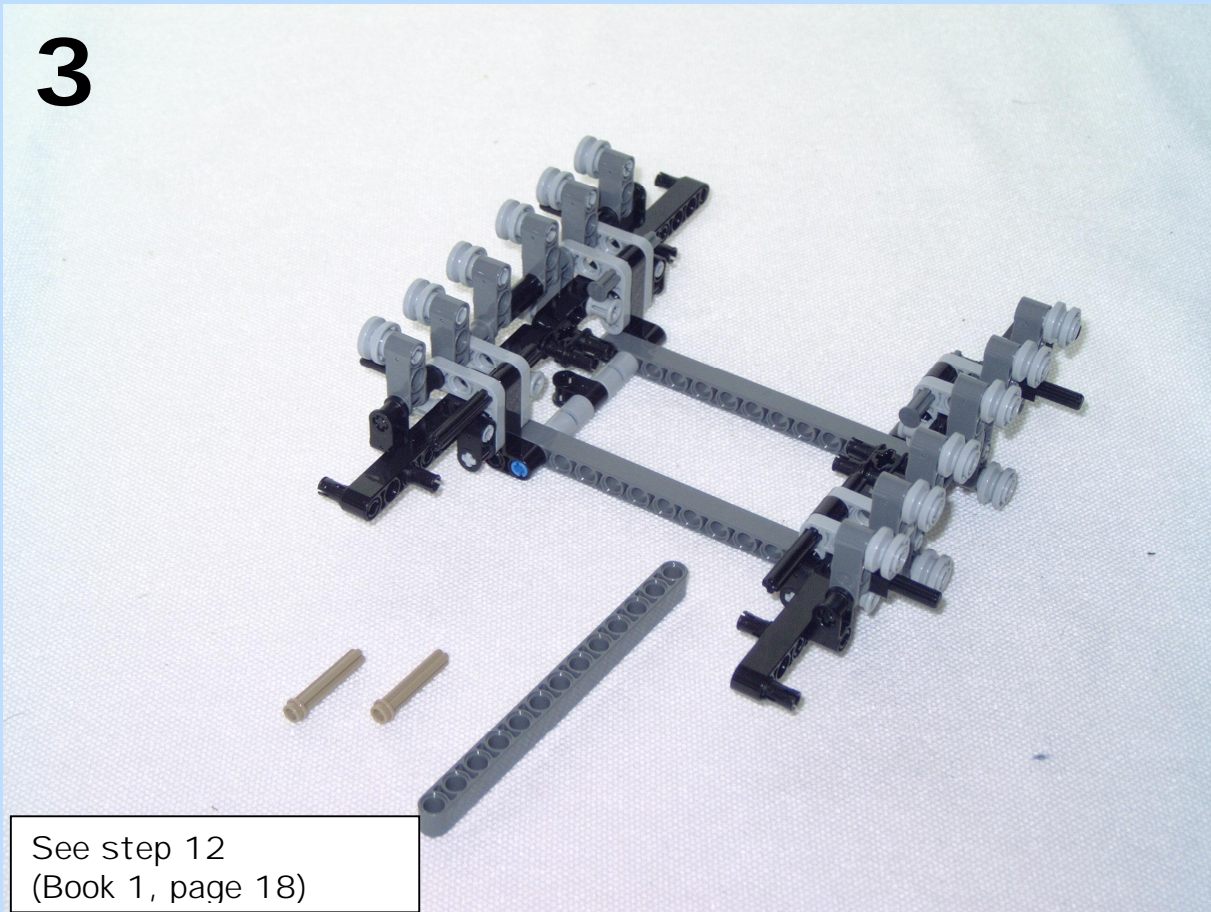
See step 1 - 11
(Book 1, page 10 - 18)

2



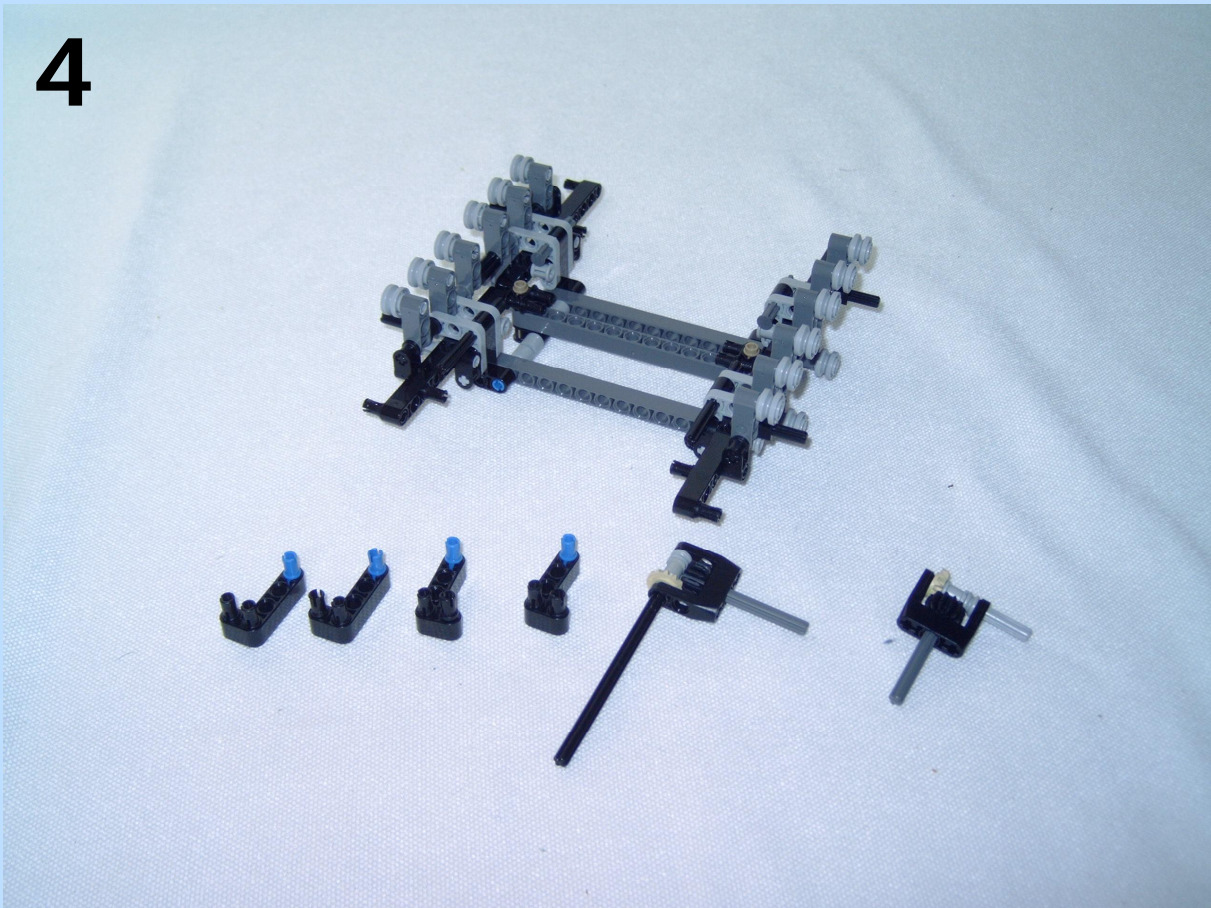
See step 12
(Book 1, page 18)

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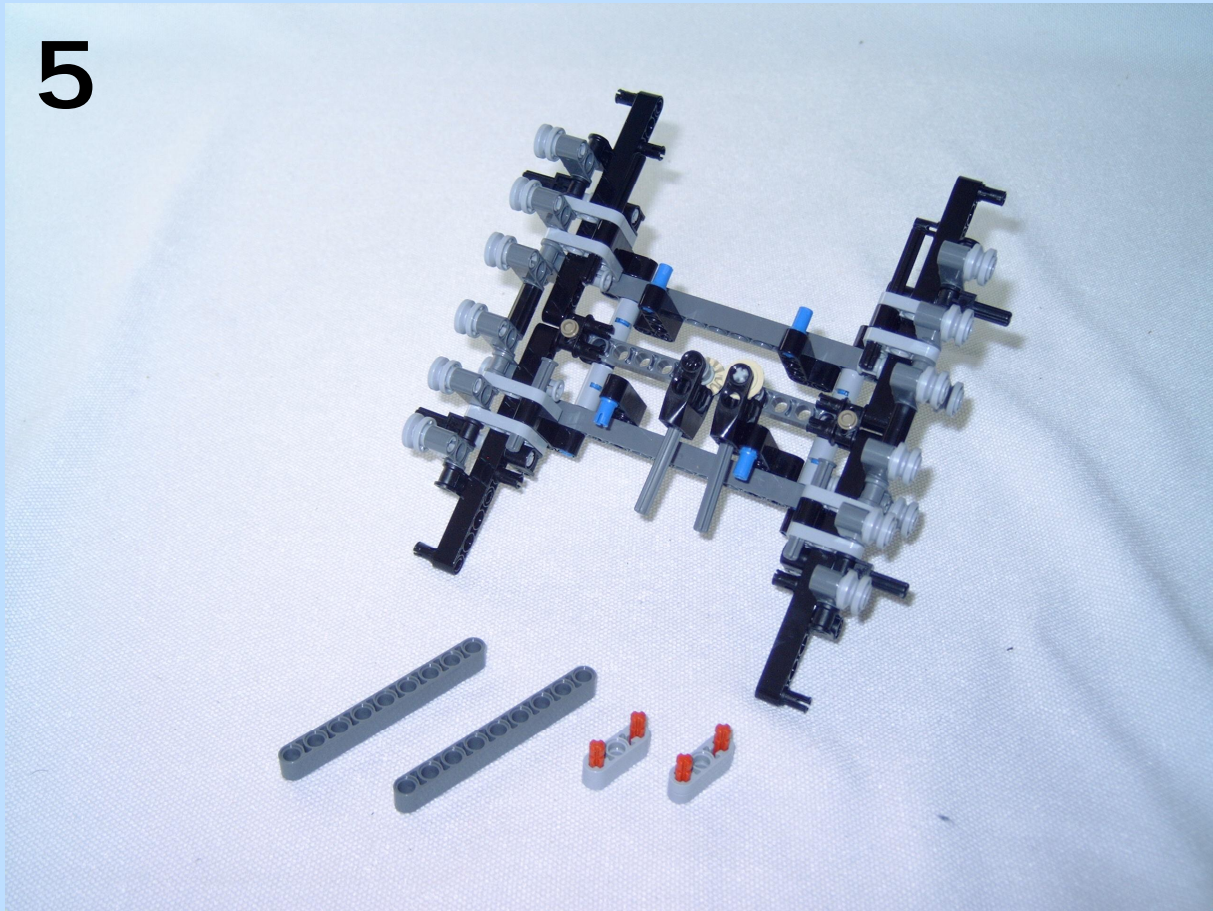


See step 12
(Book 1, page 18)

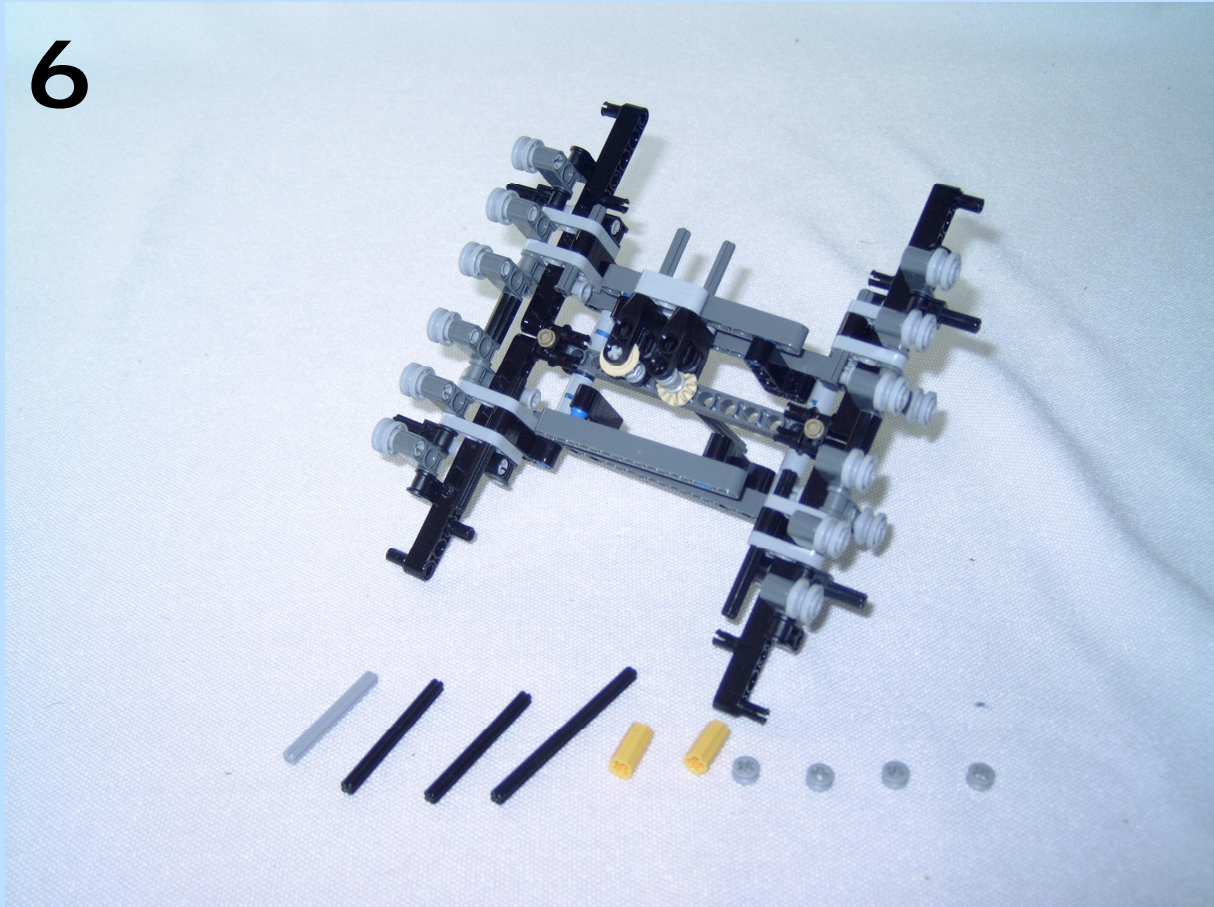
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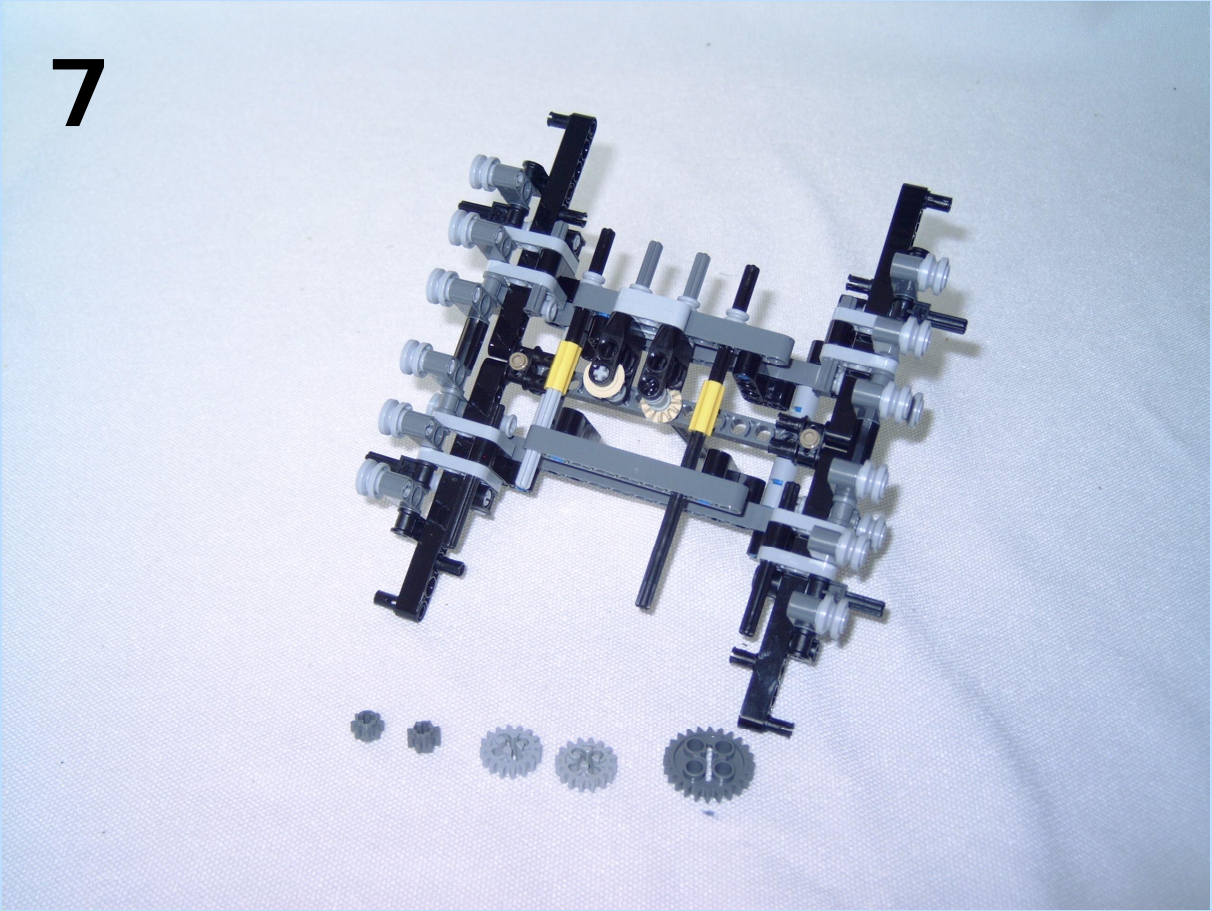
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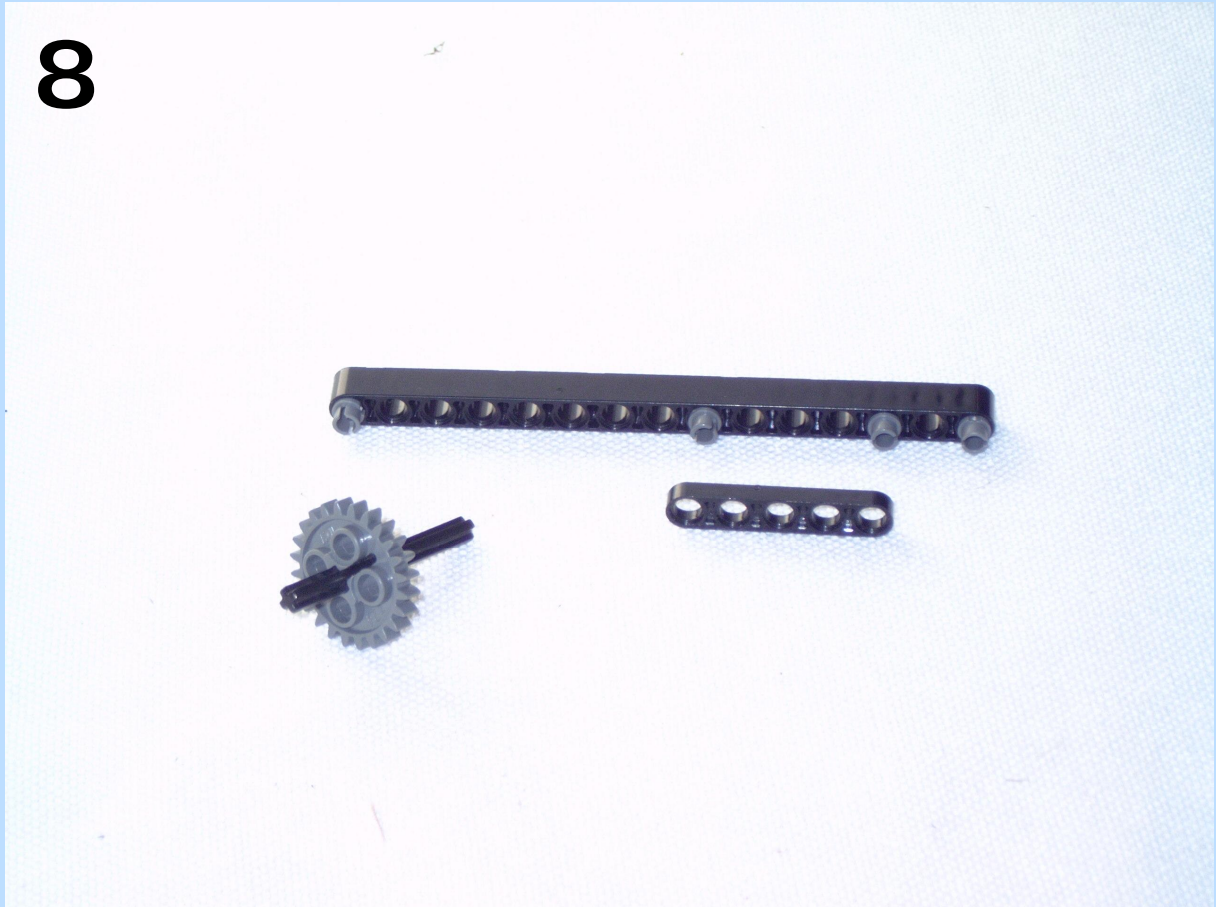
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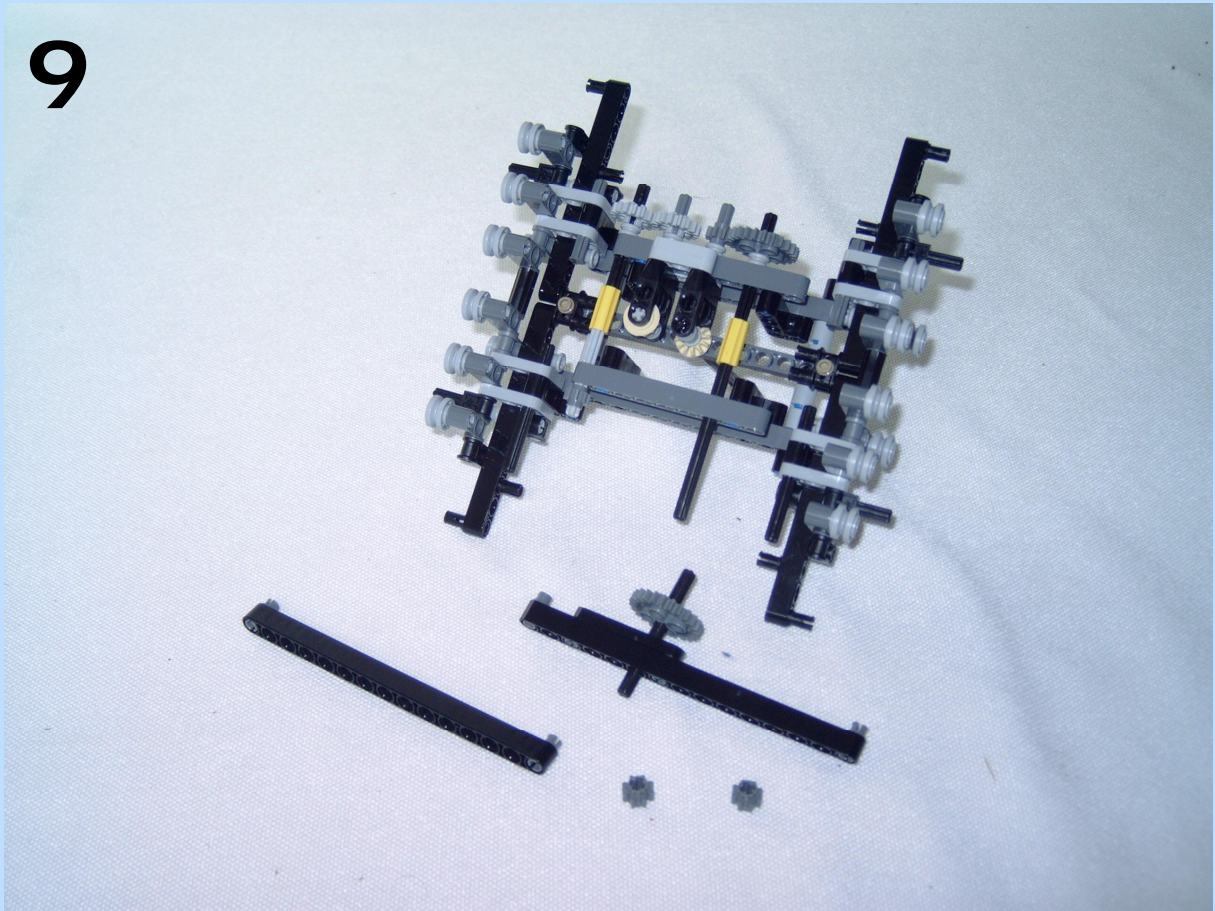
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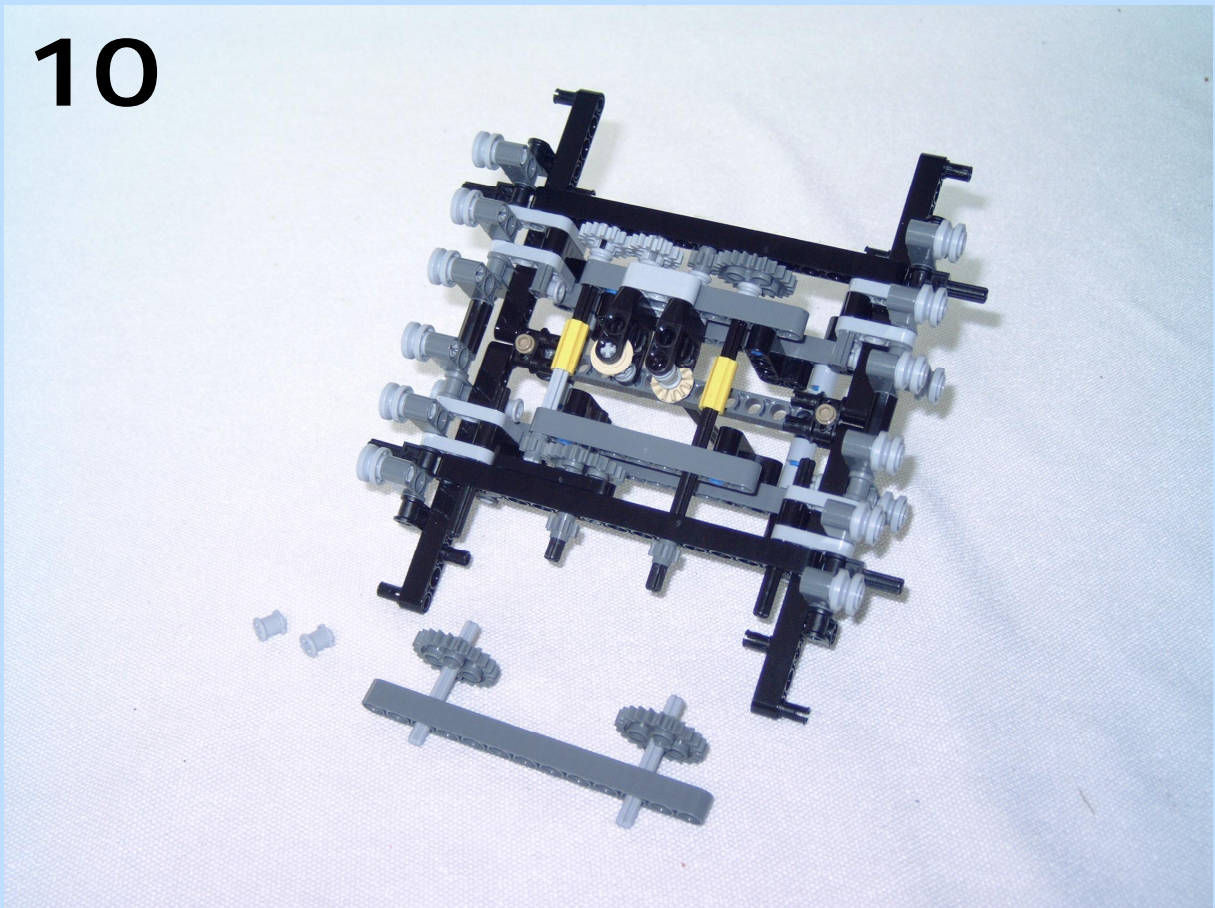
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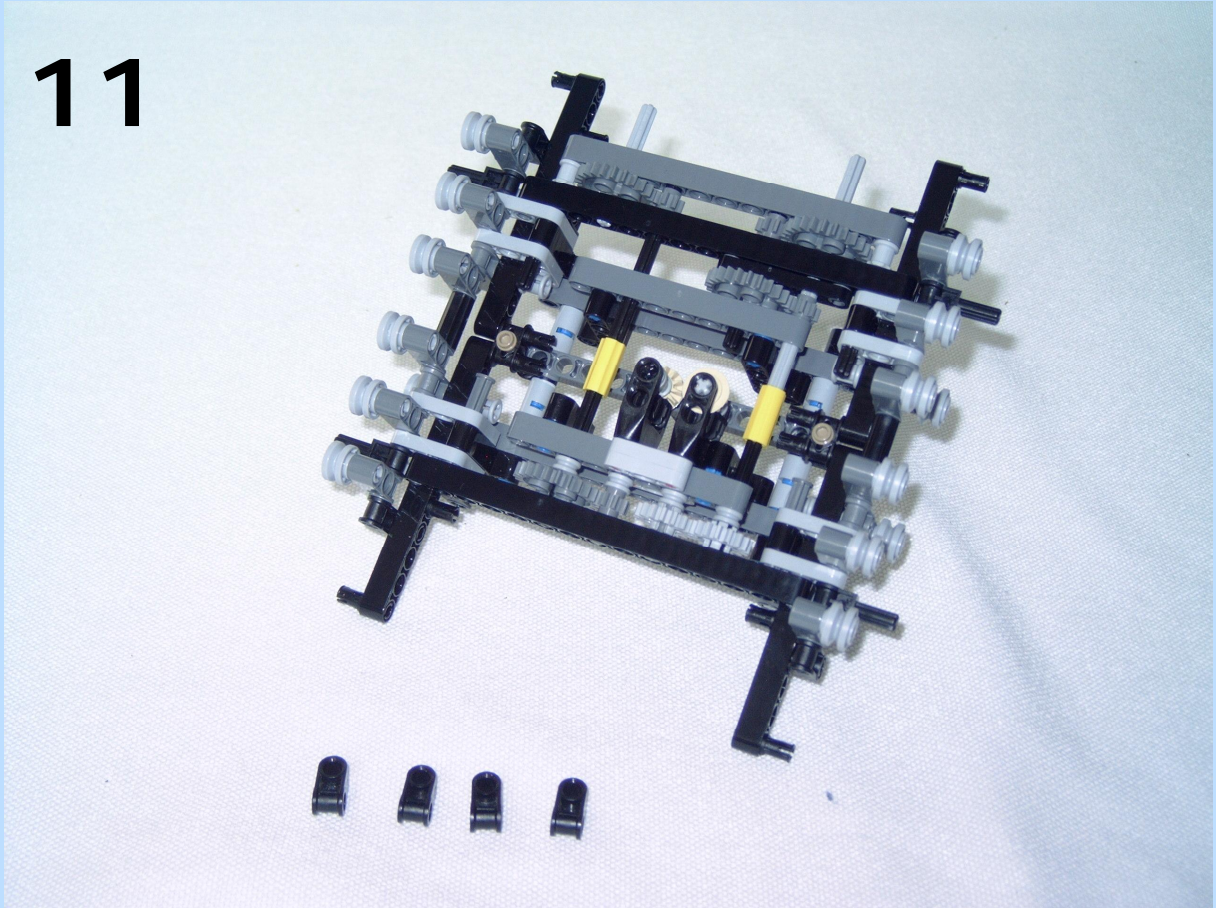
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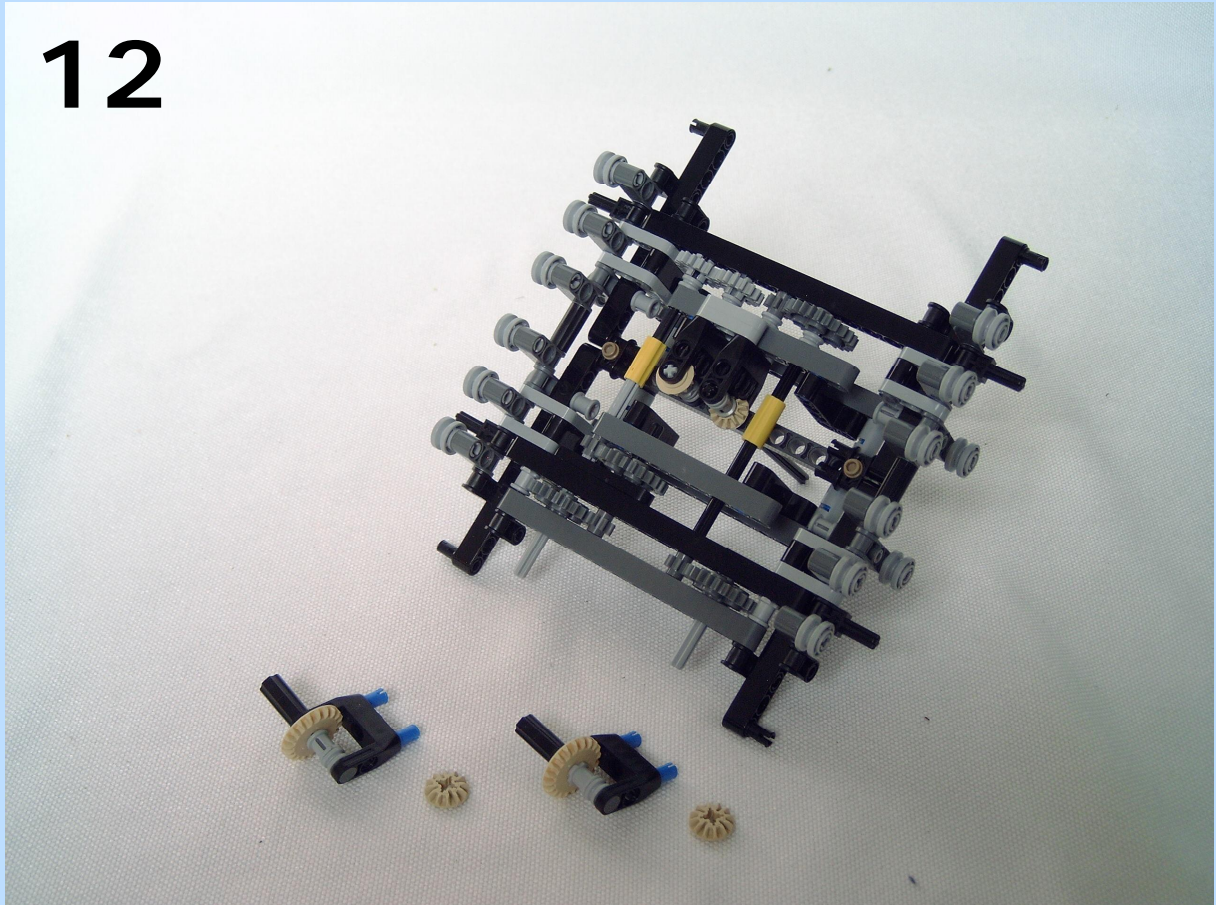
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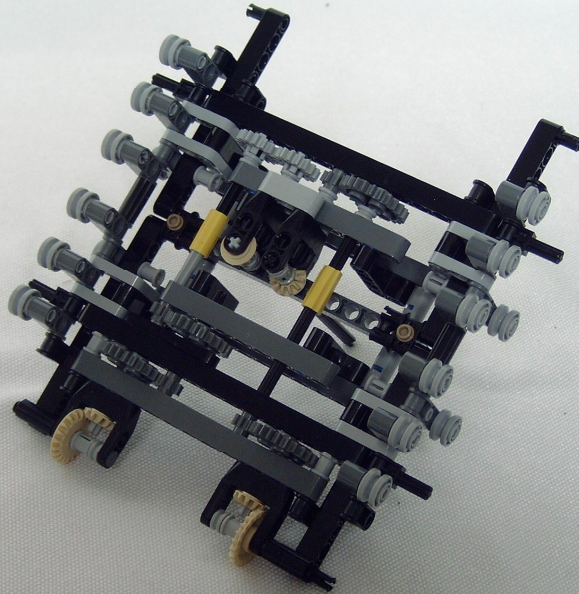
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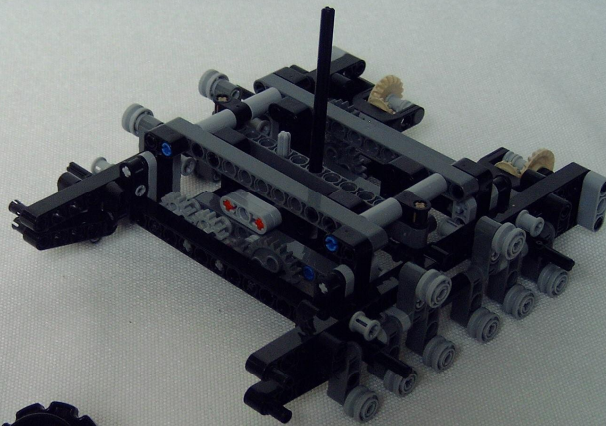


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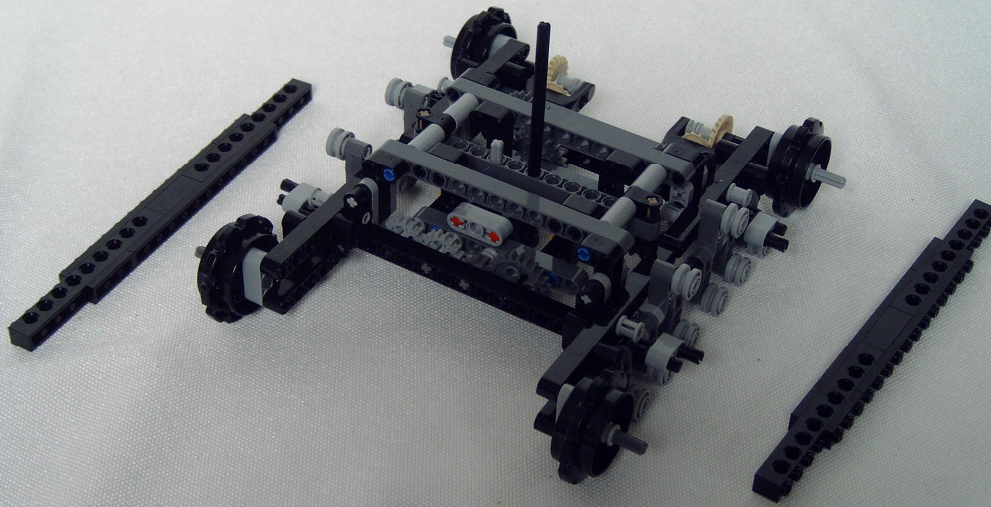
See step 18
(Book 1, page 27)

14



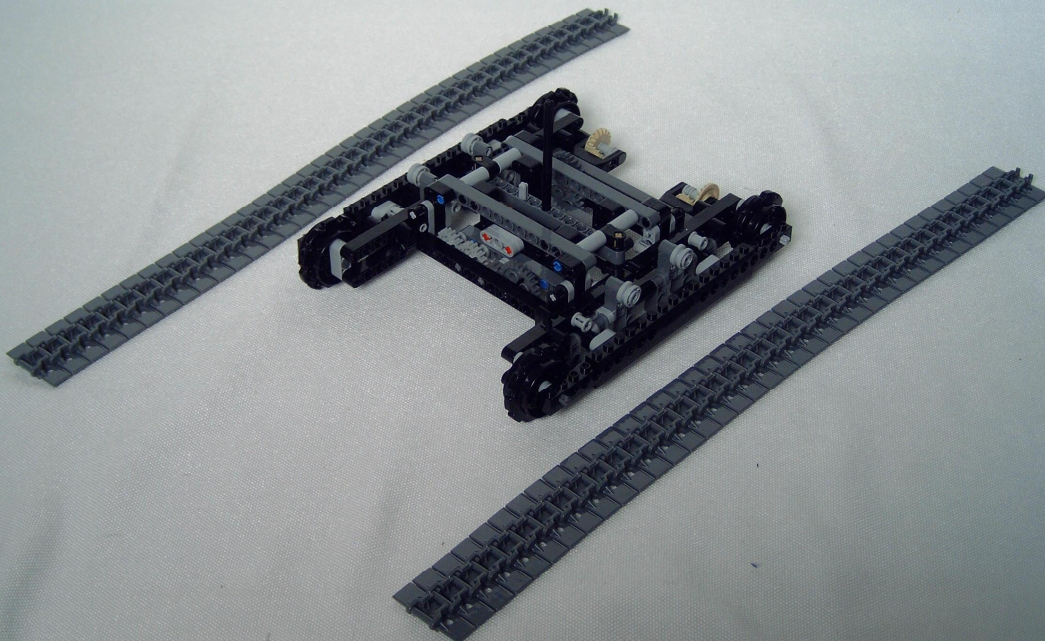
See step 21 - 22
(Book 1, page 28 - 29)

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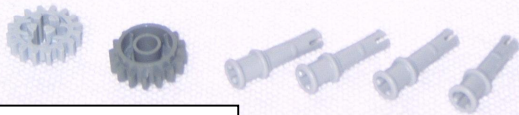
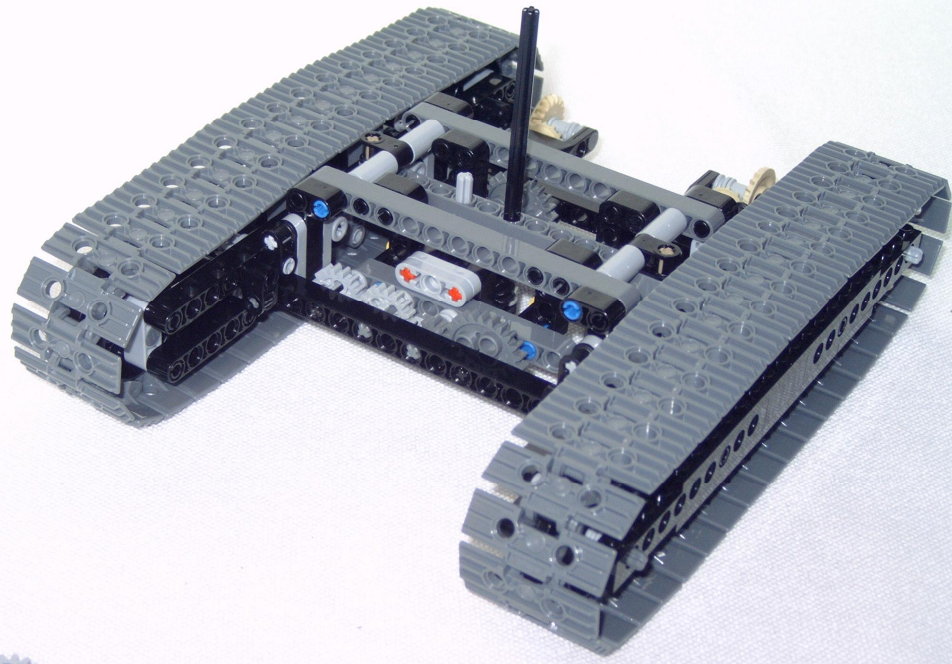
See step 25
(Book 1, page 32)

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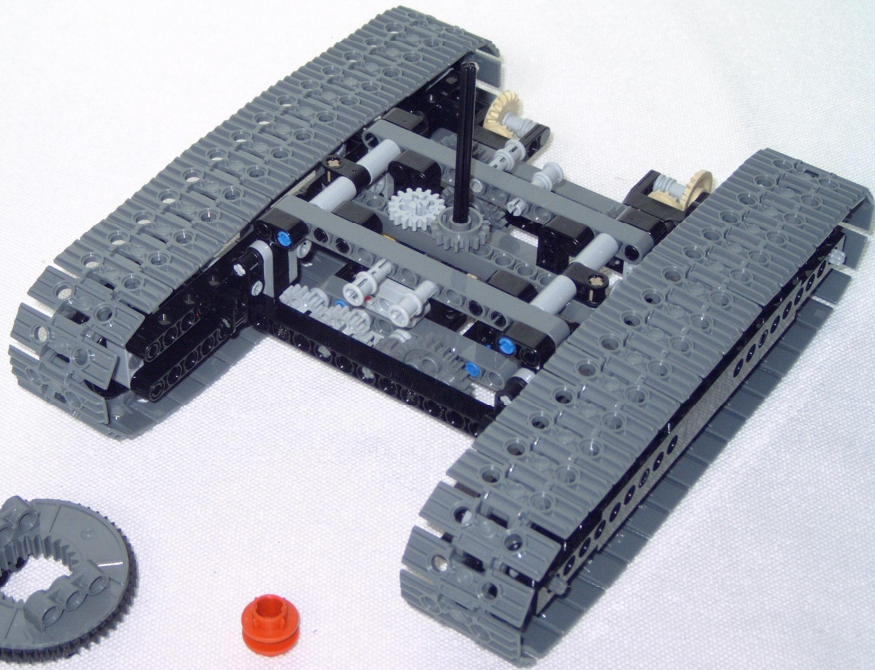
See step 26
(Book 1, page 33)

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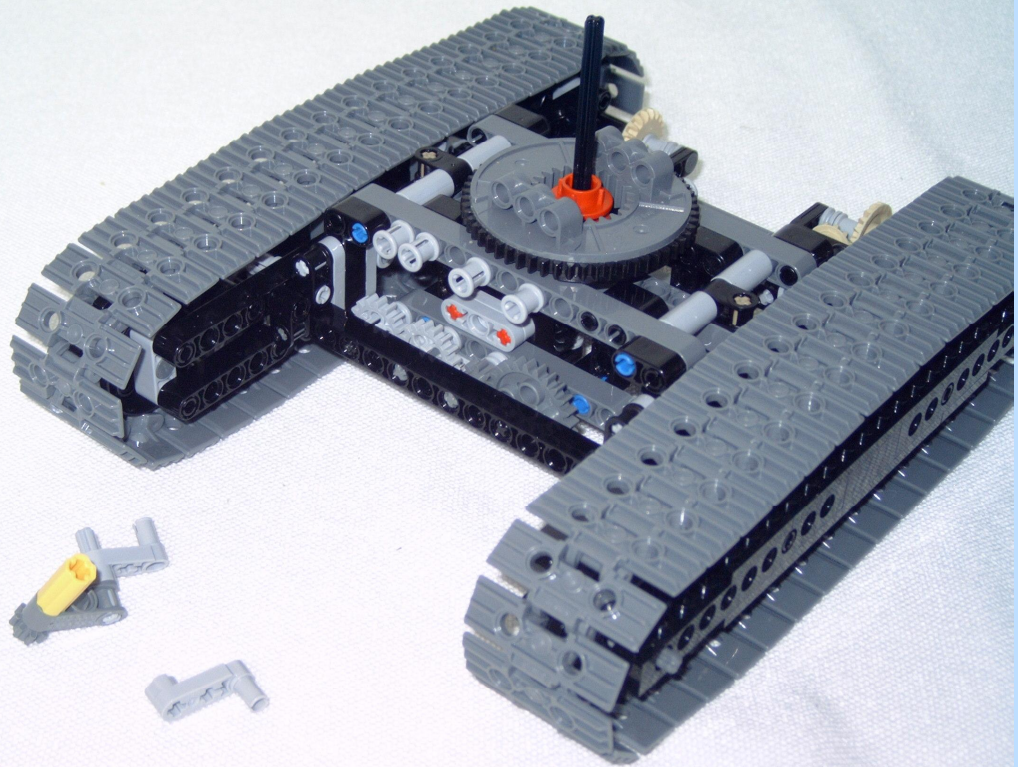


See step 27 - 28
(Book 1, page 34 - 35)

18

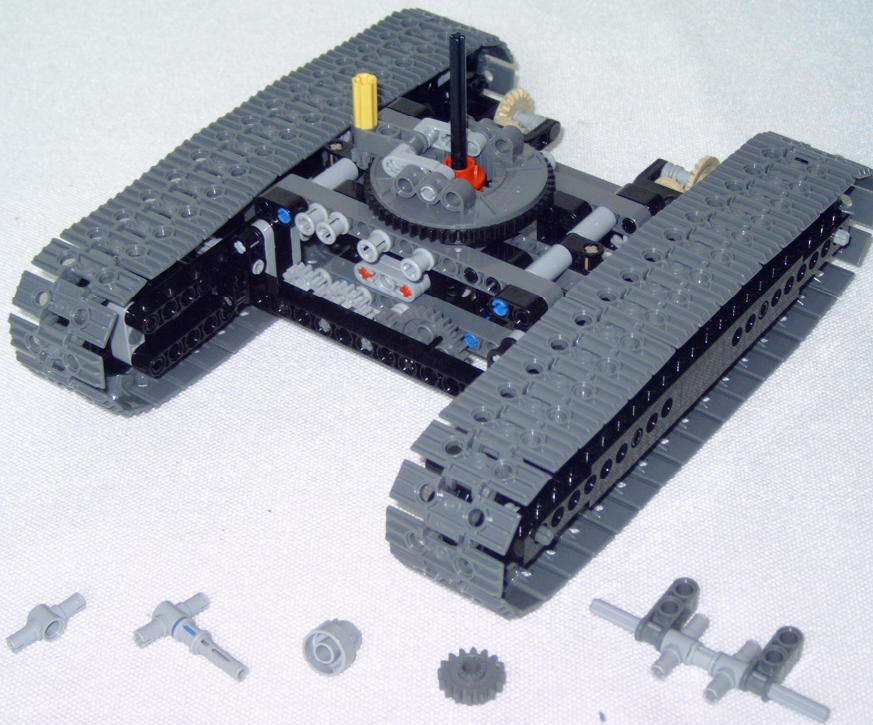


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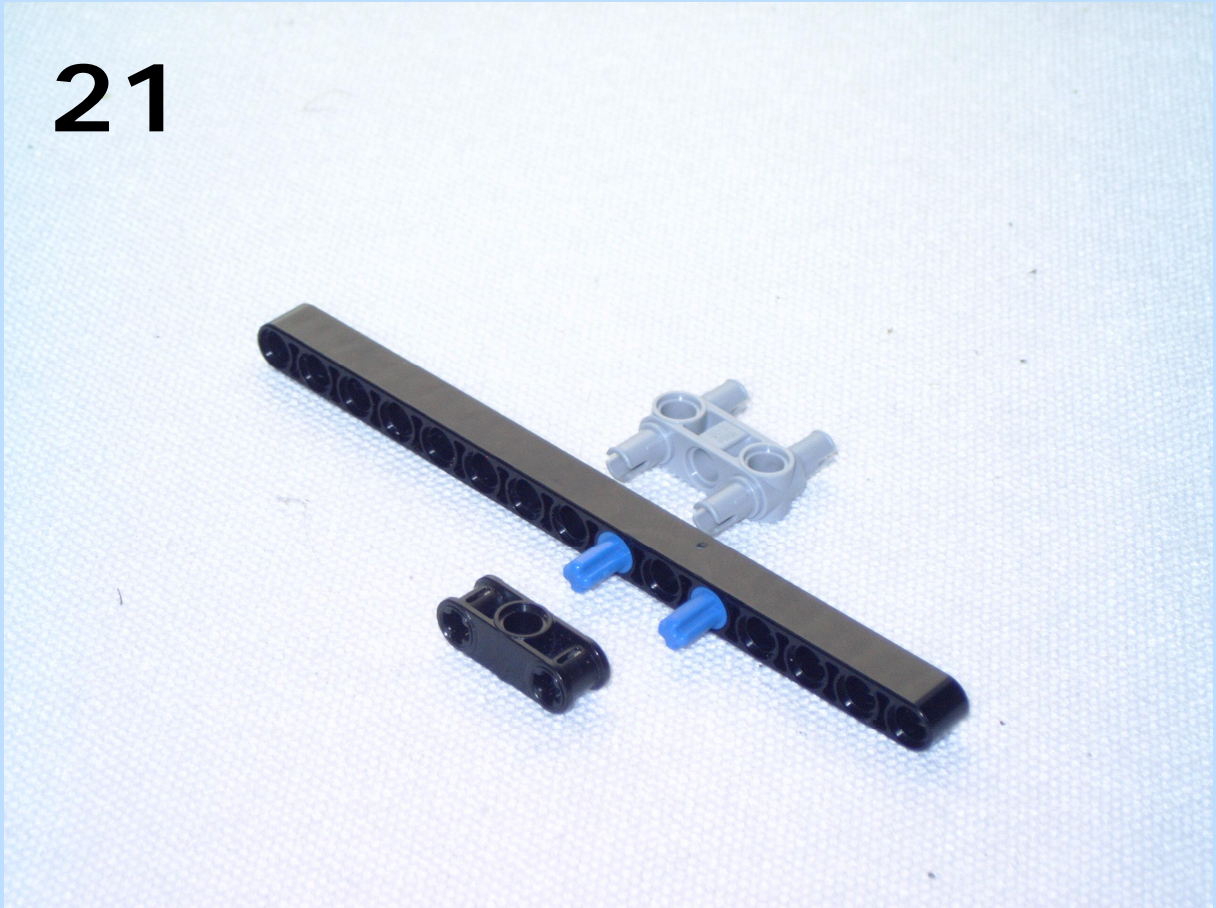
See step 1 - 7
(Book 1, page 36 - 37)

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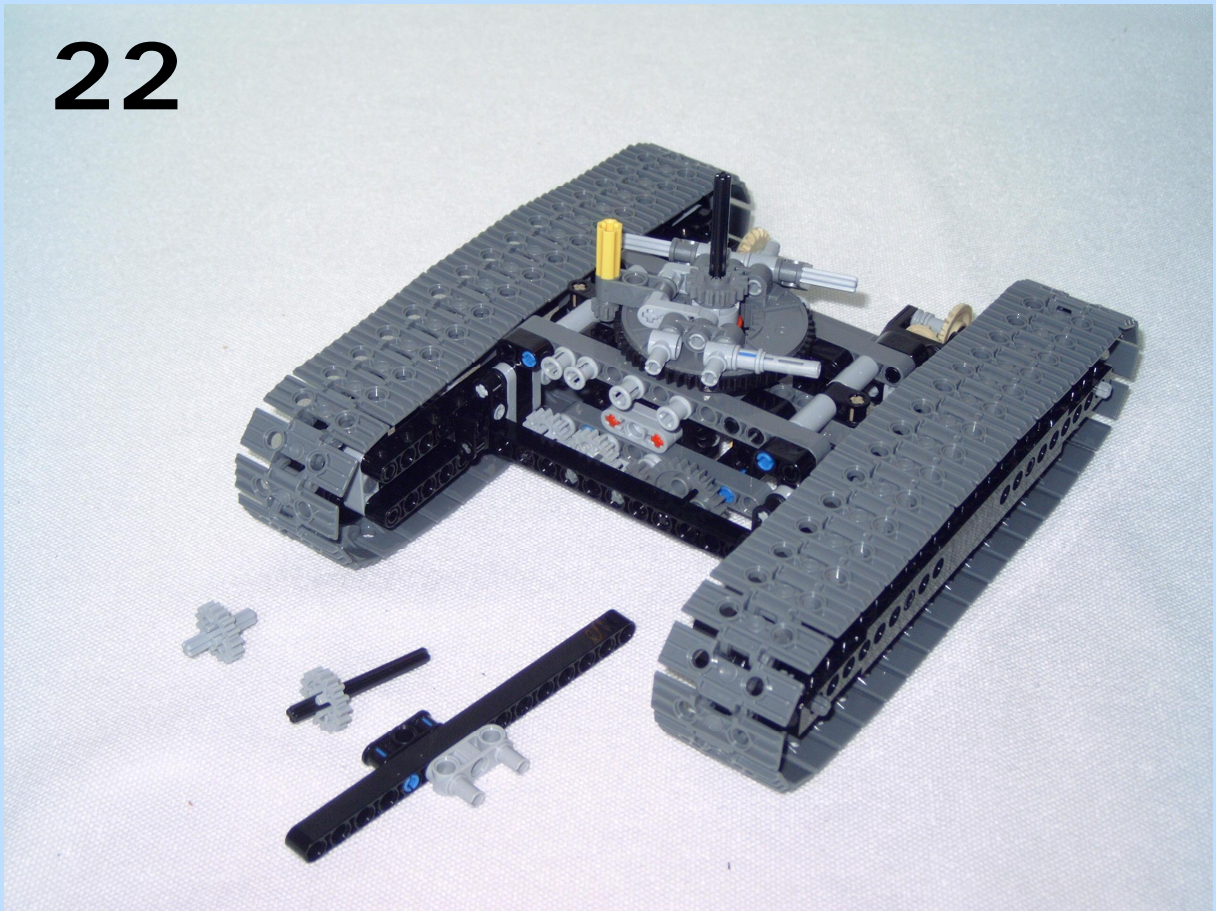


See step 31 - 32
(Book 1, page 39 - 40)

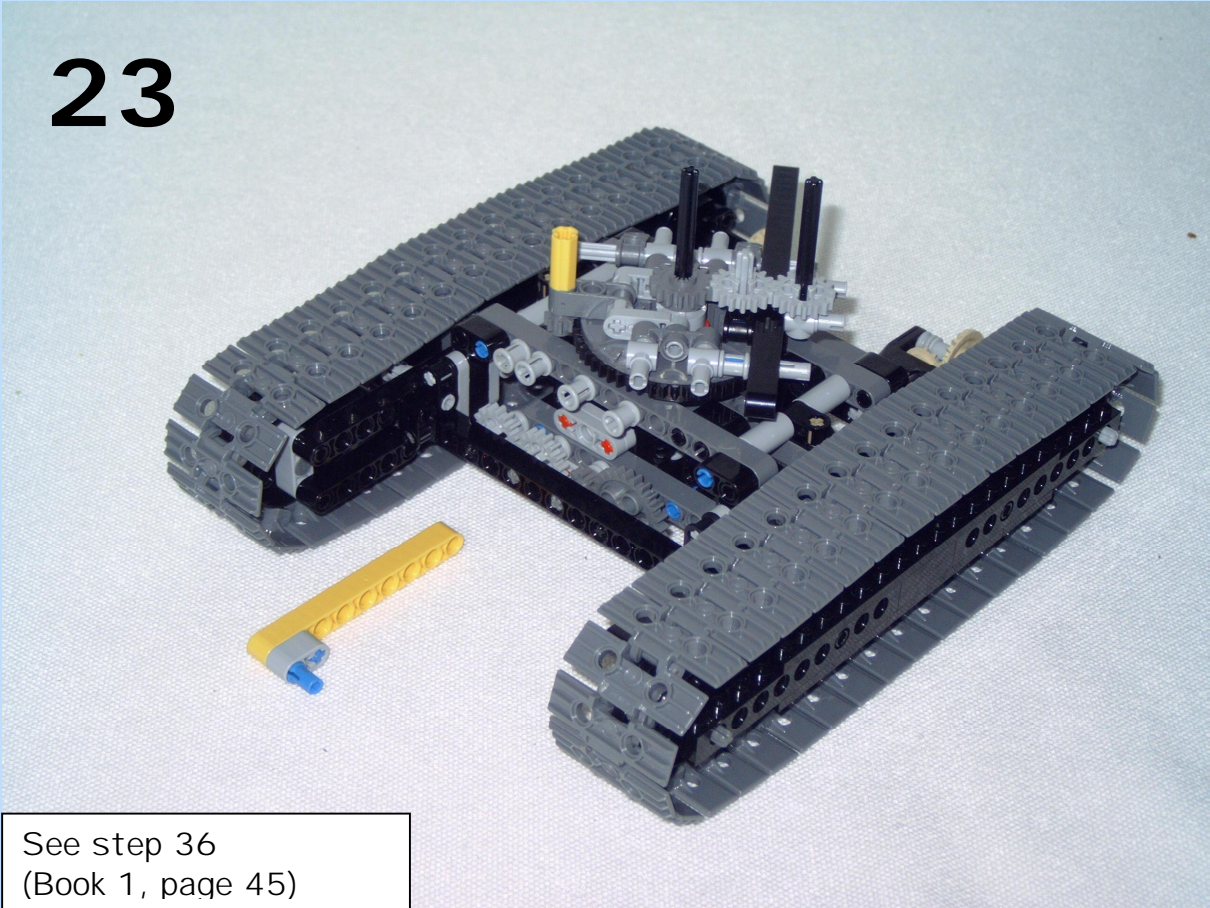
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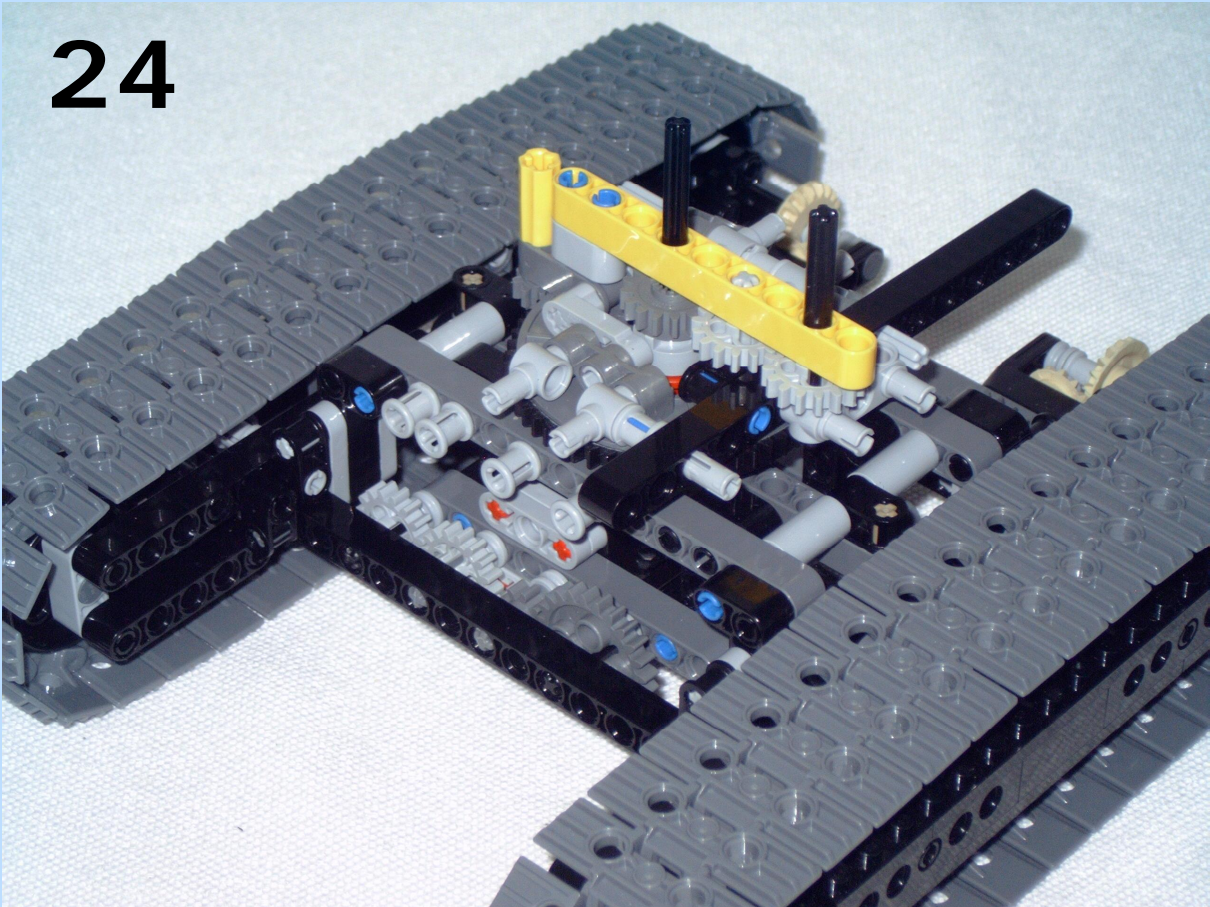


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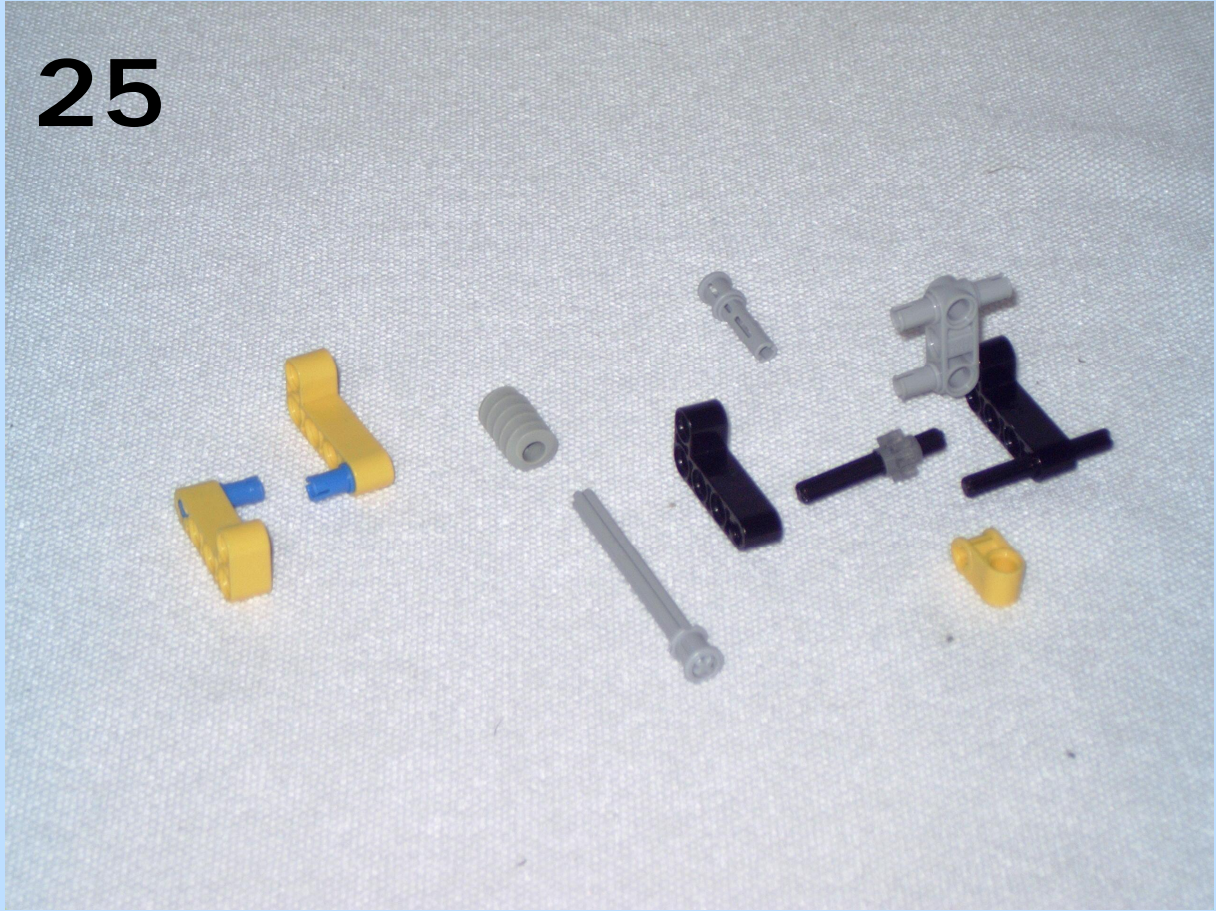


See step 36
(Book 1, page 45)

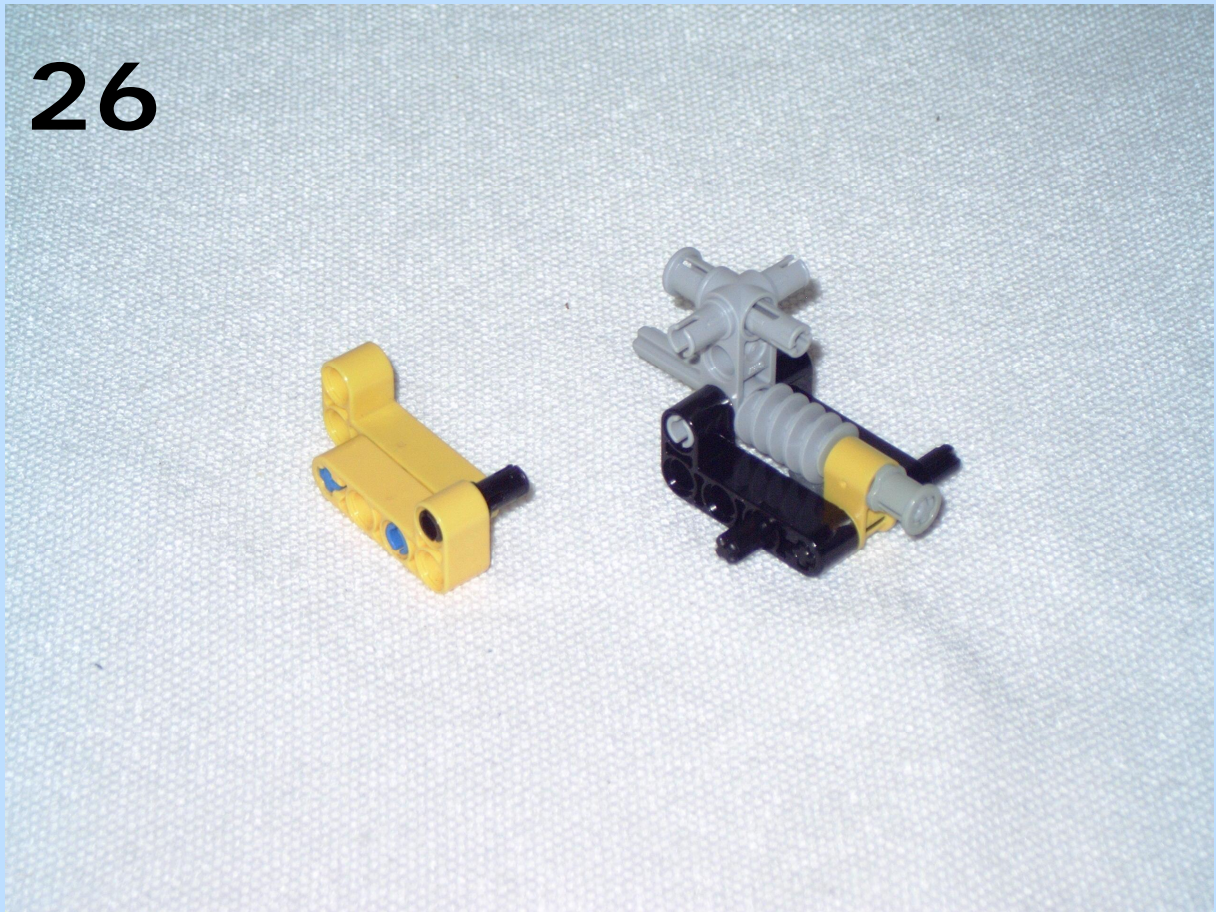
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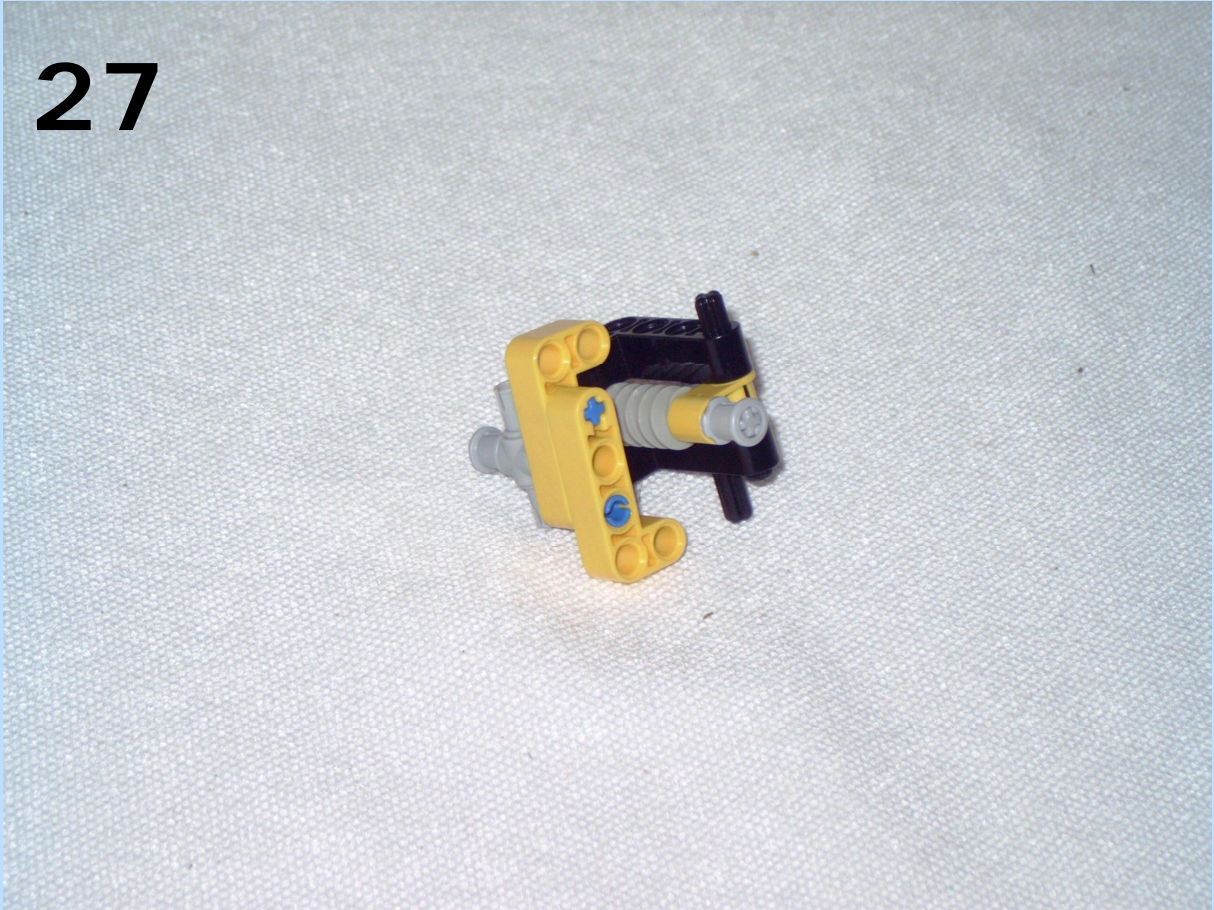
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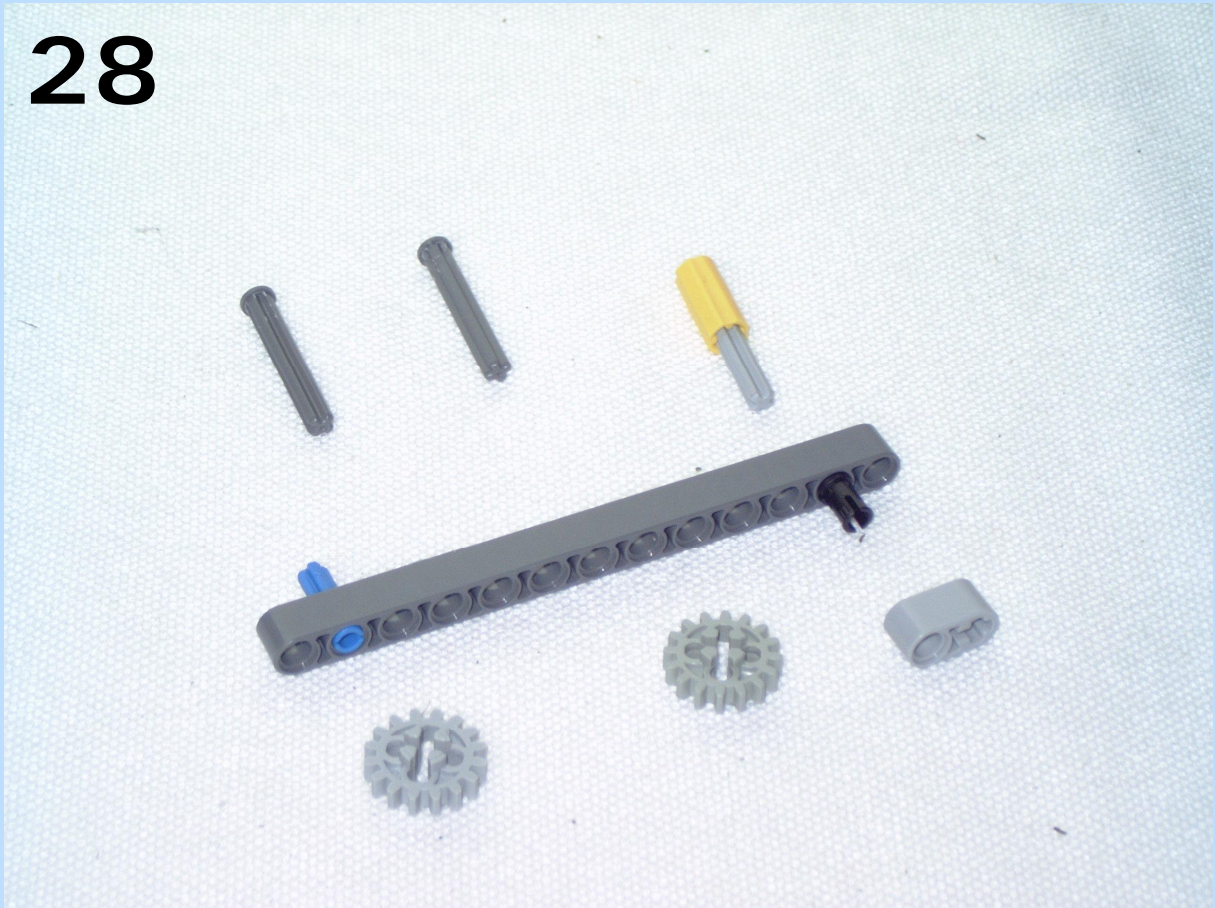
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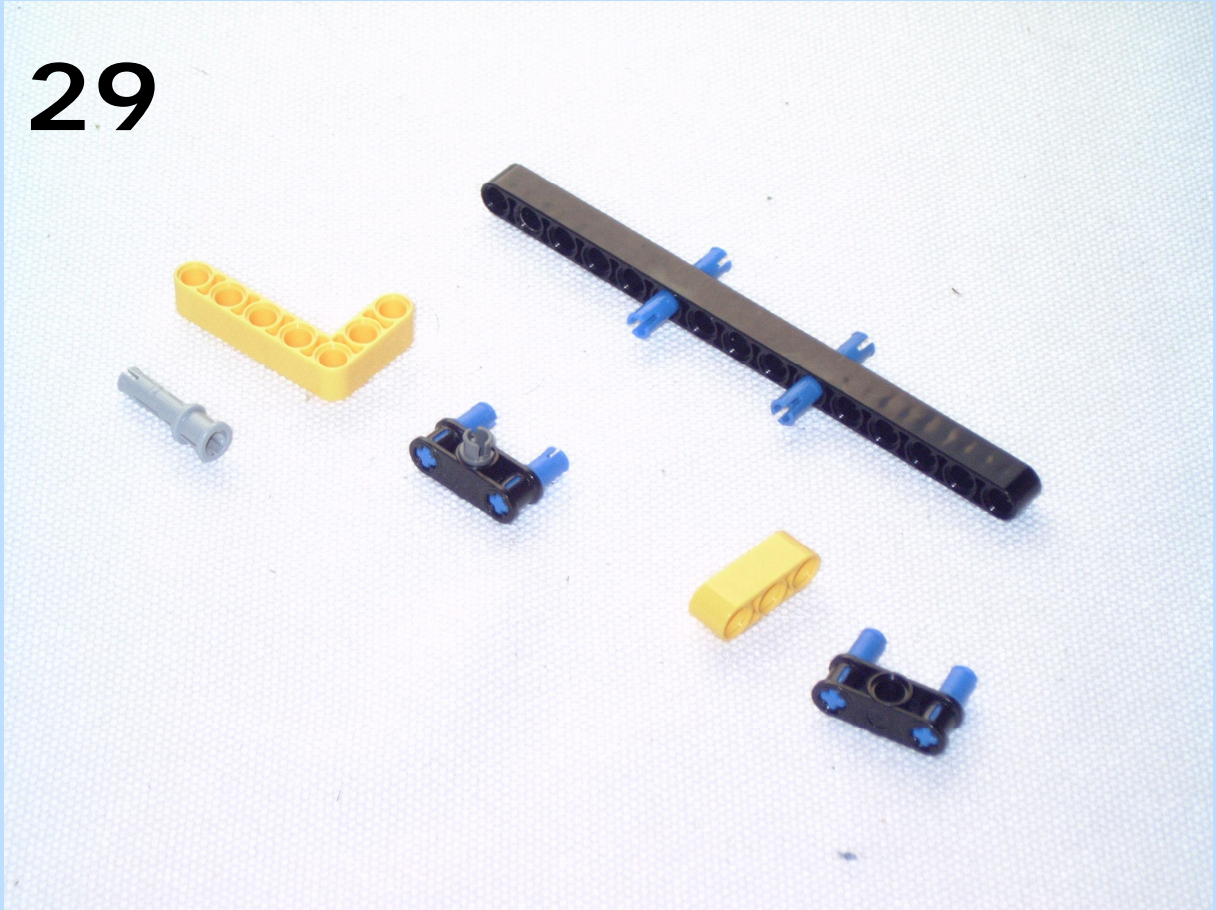
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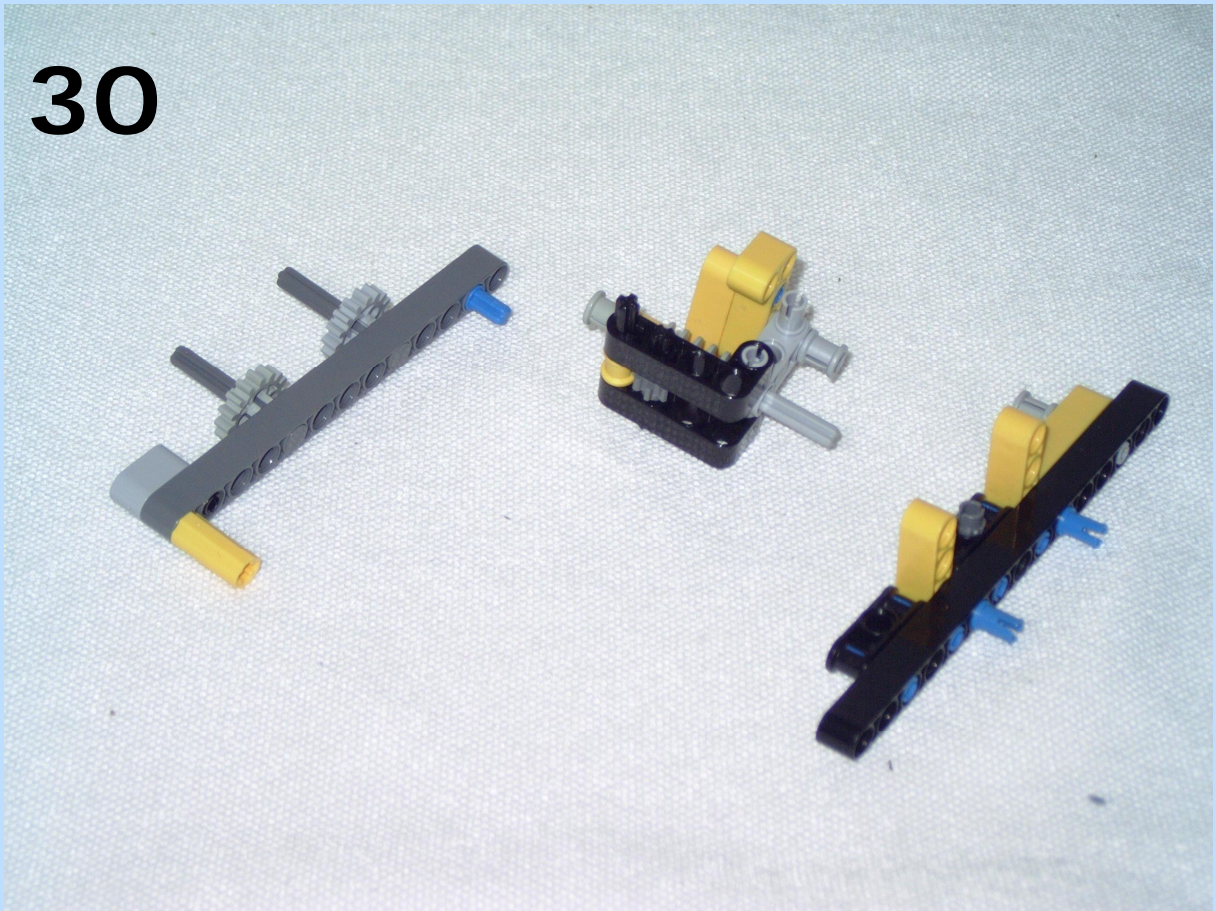
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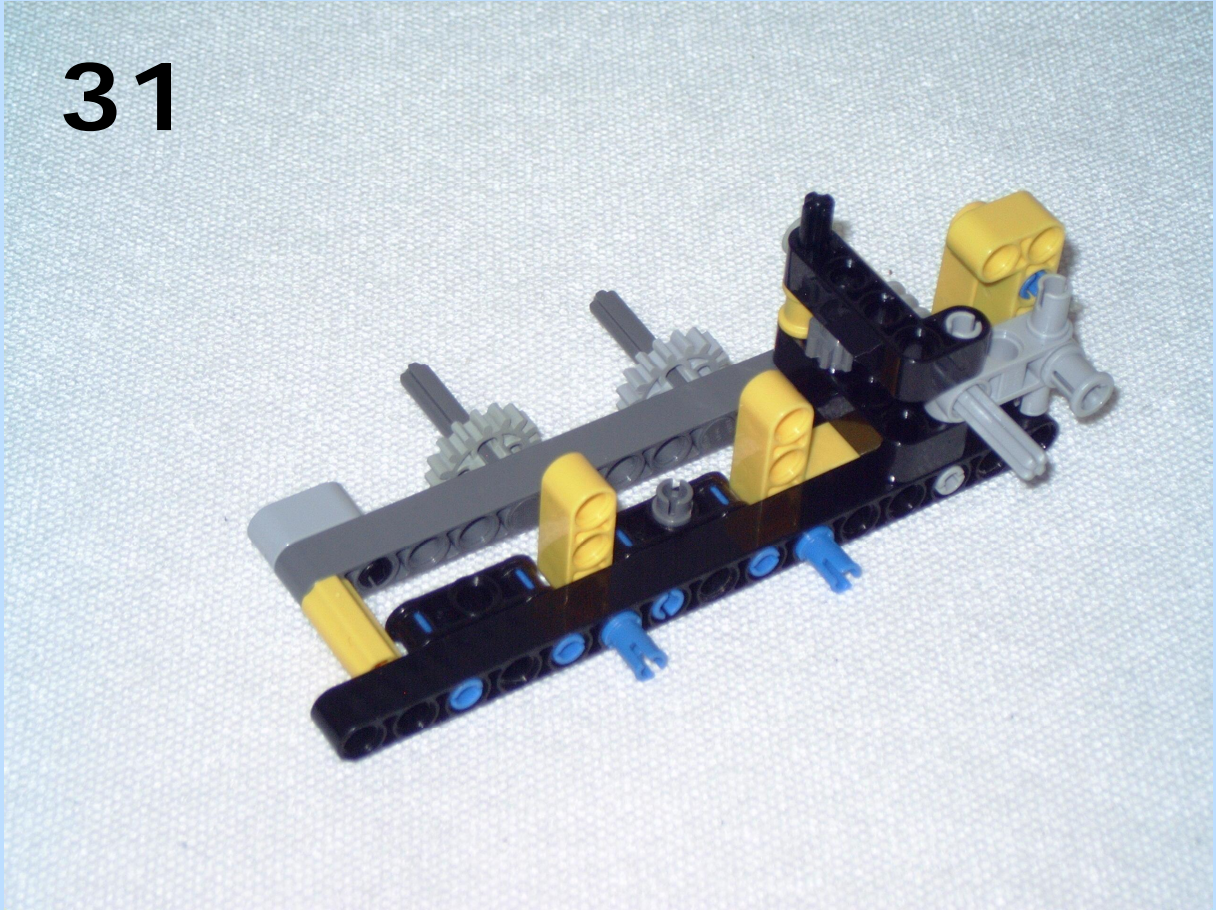
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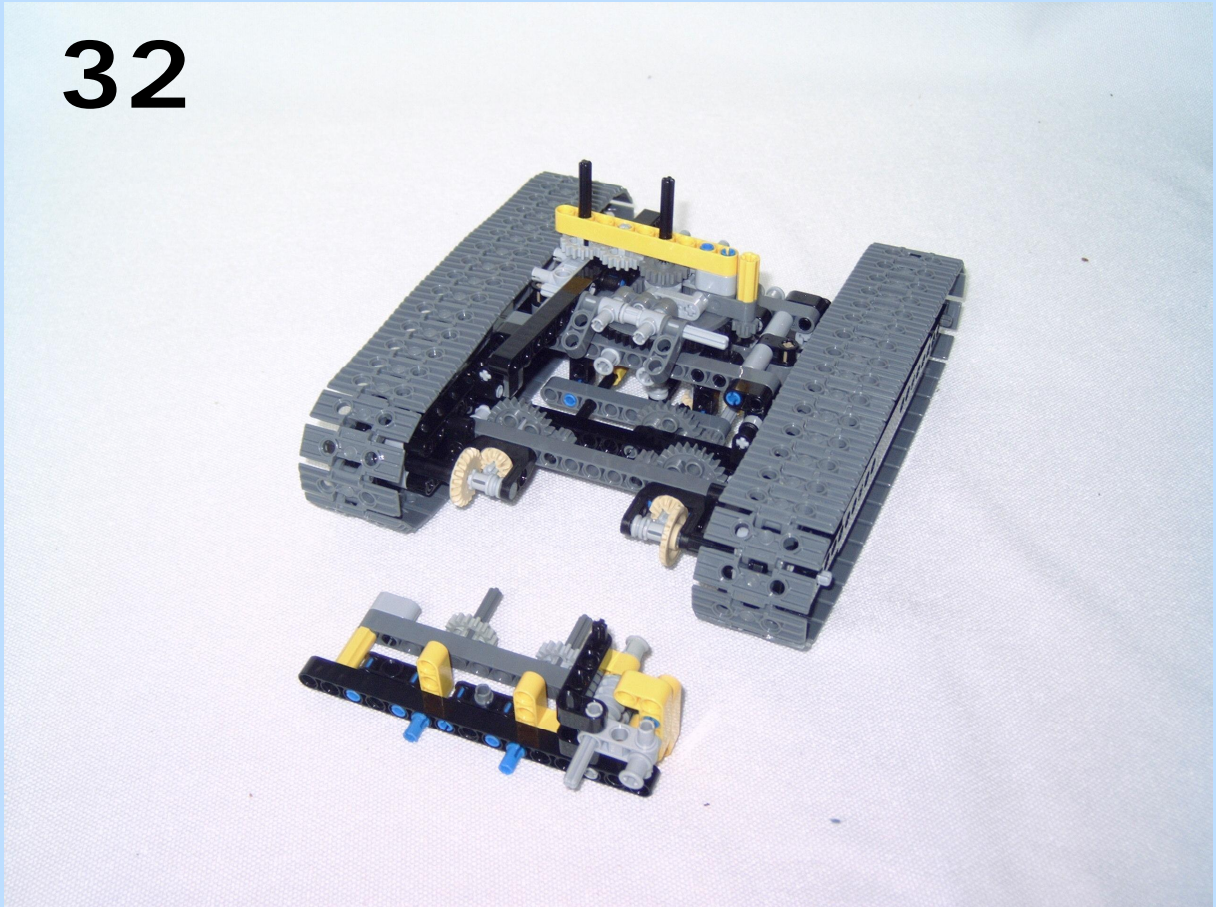
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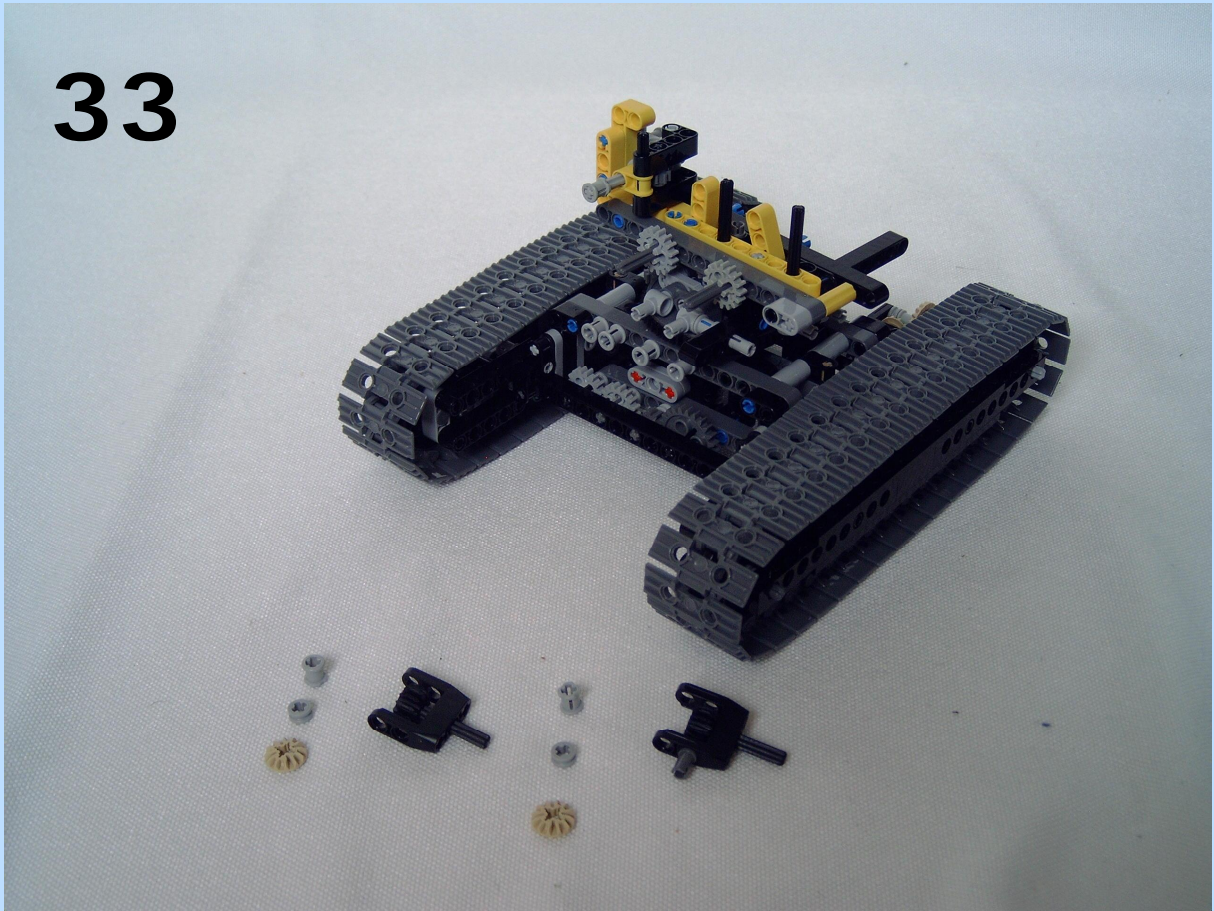
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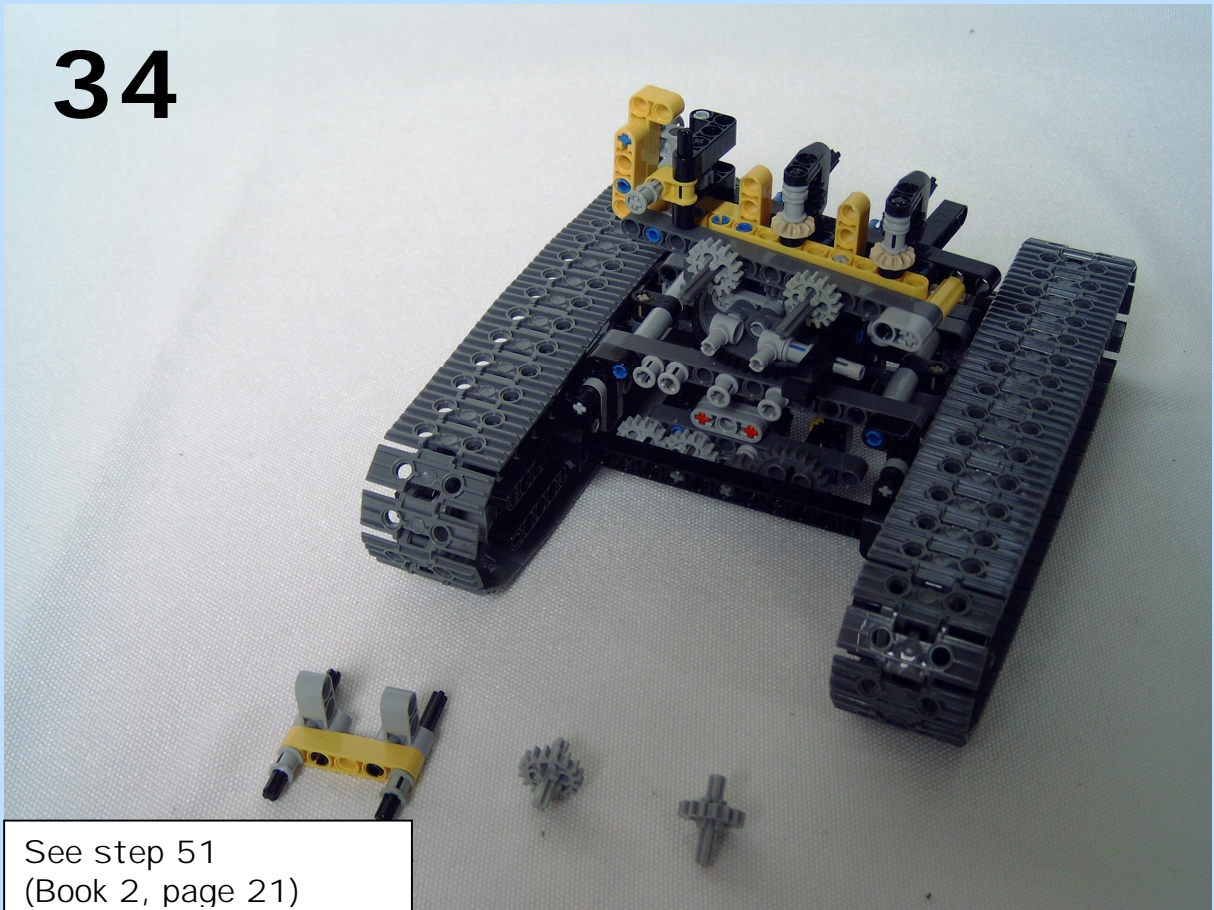
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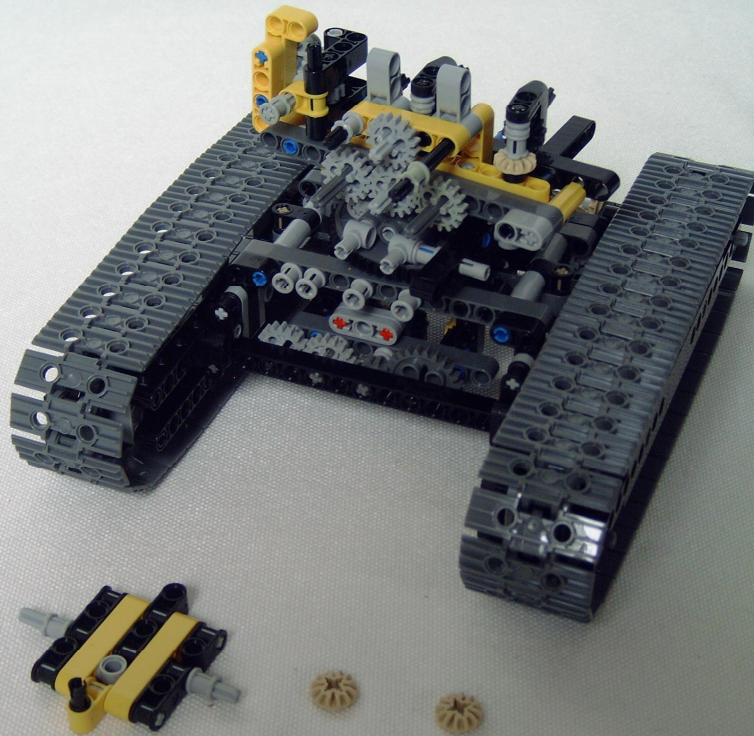


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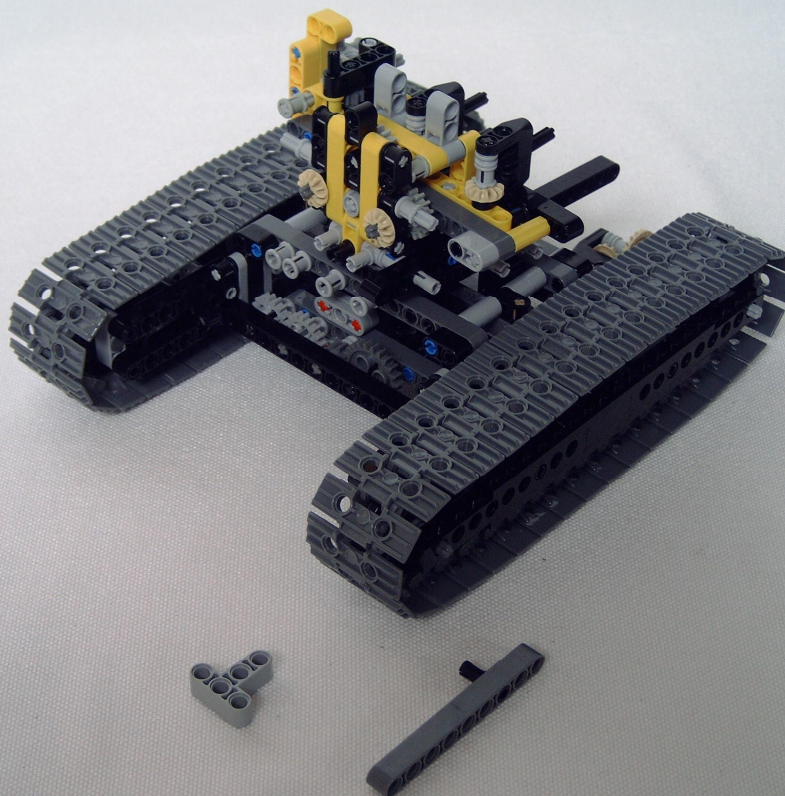
See step 51
(Book 2, page 21)

35

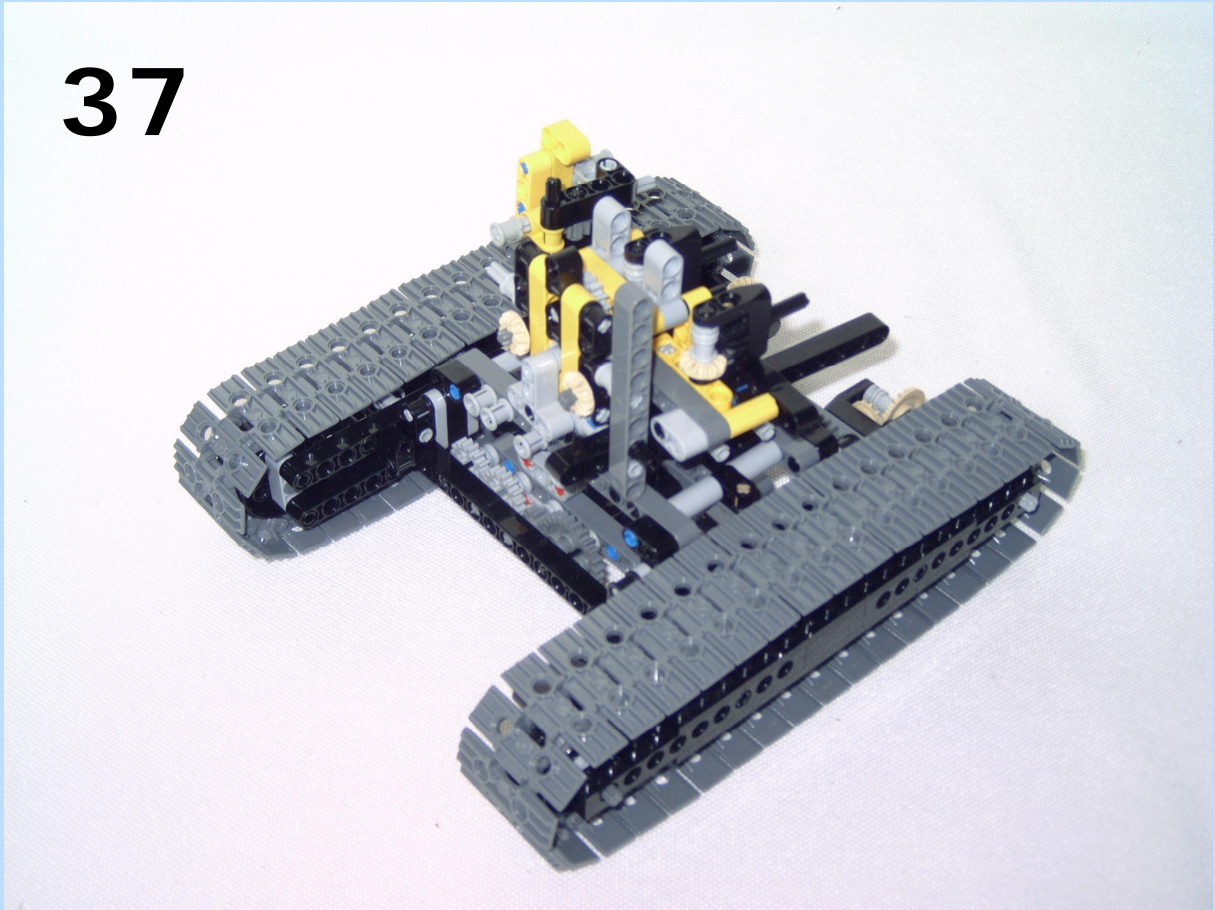


See step 1 - 8
(Book 2, page 24 - 26)

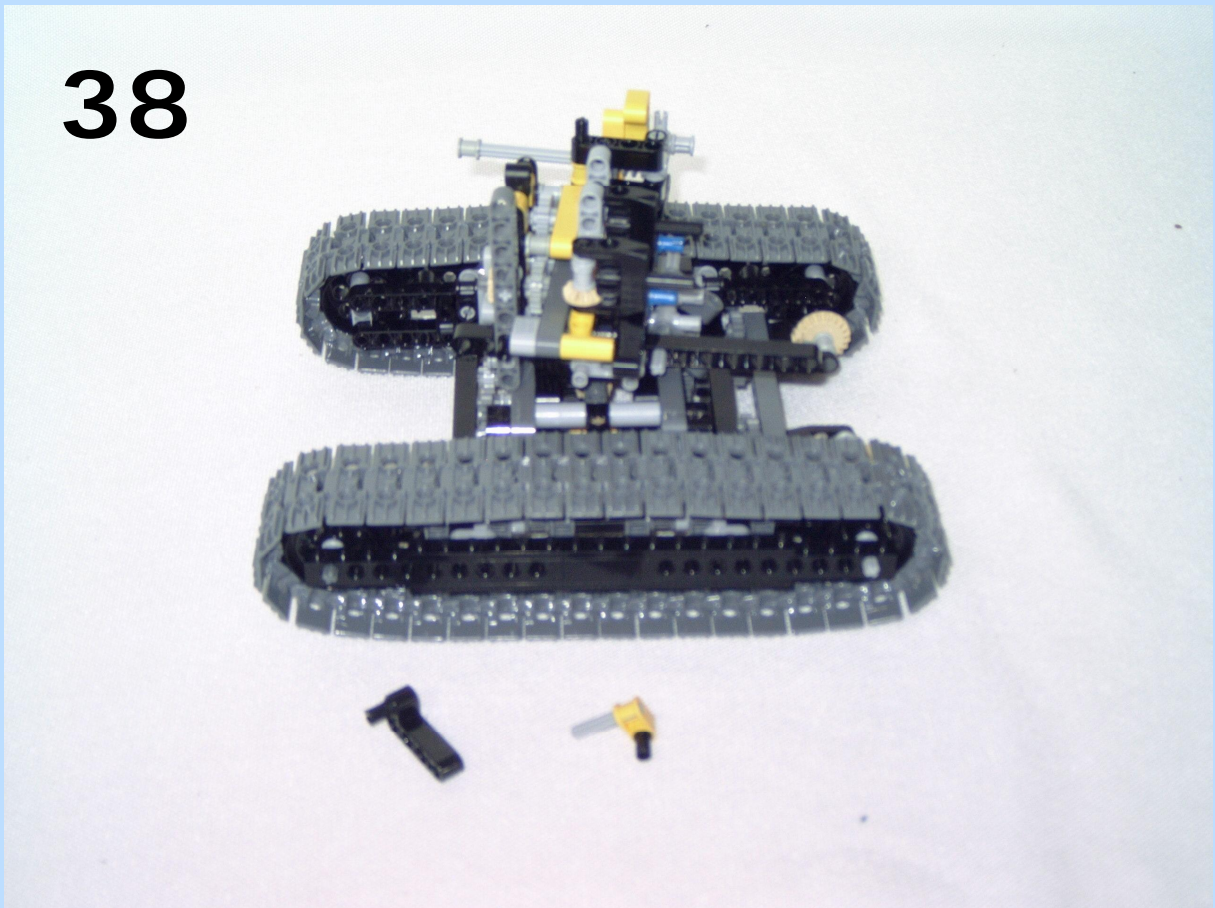
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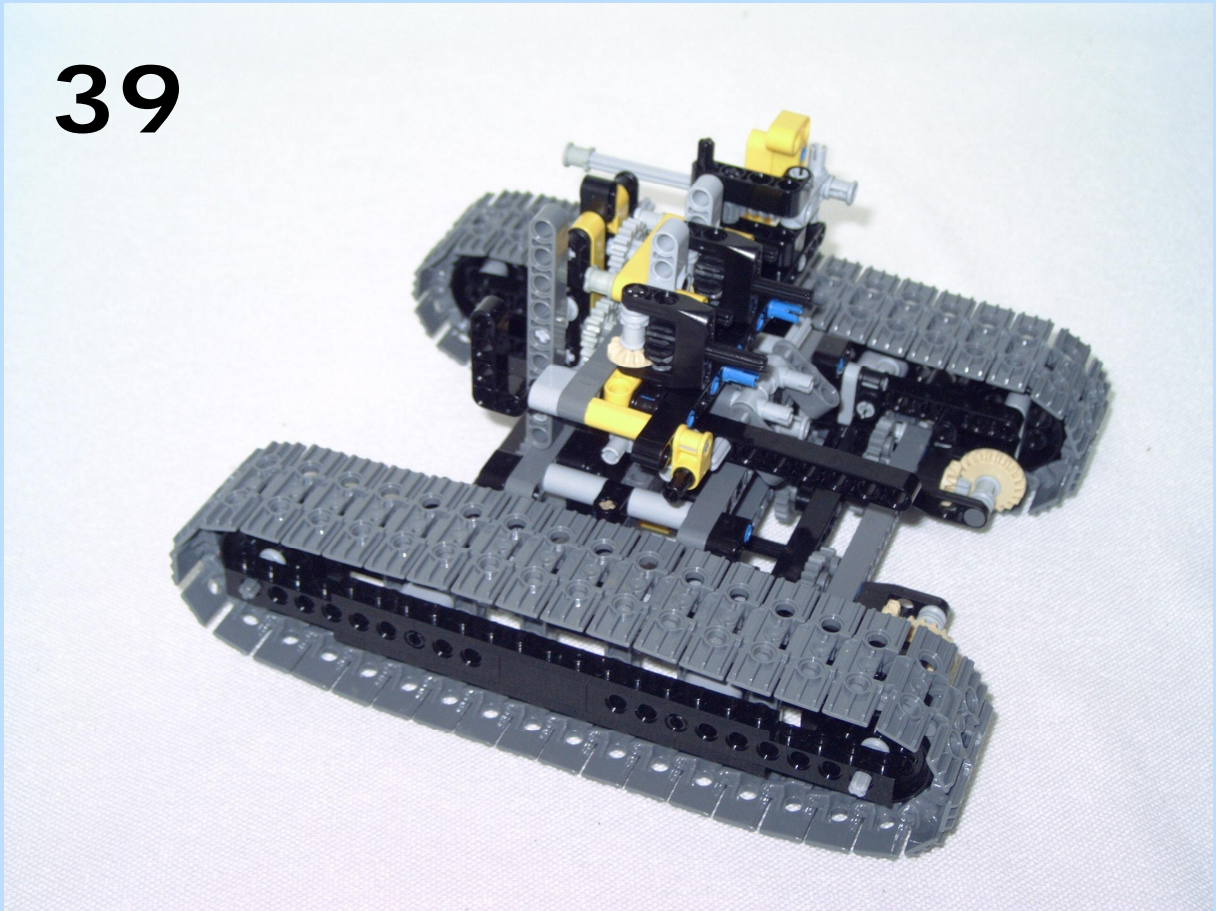
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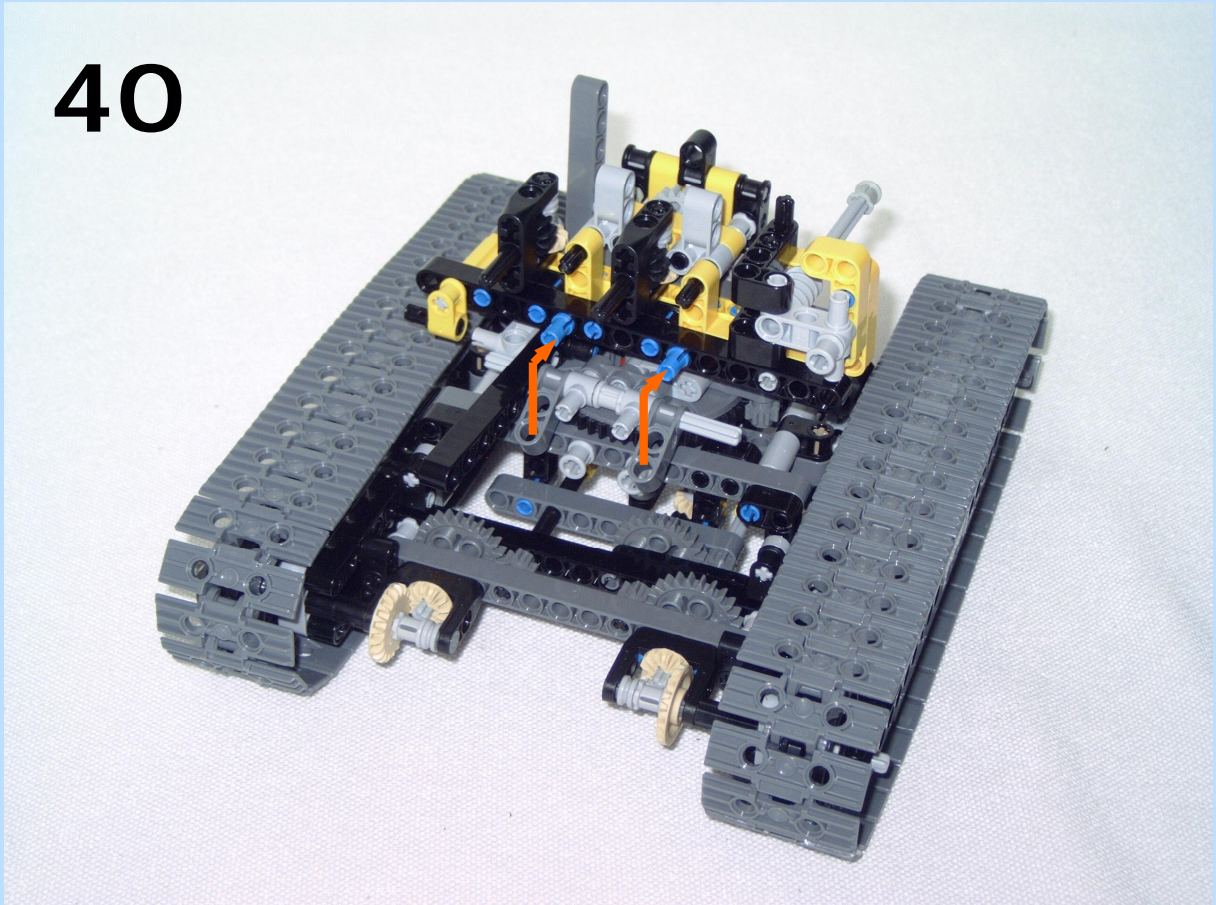
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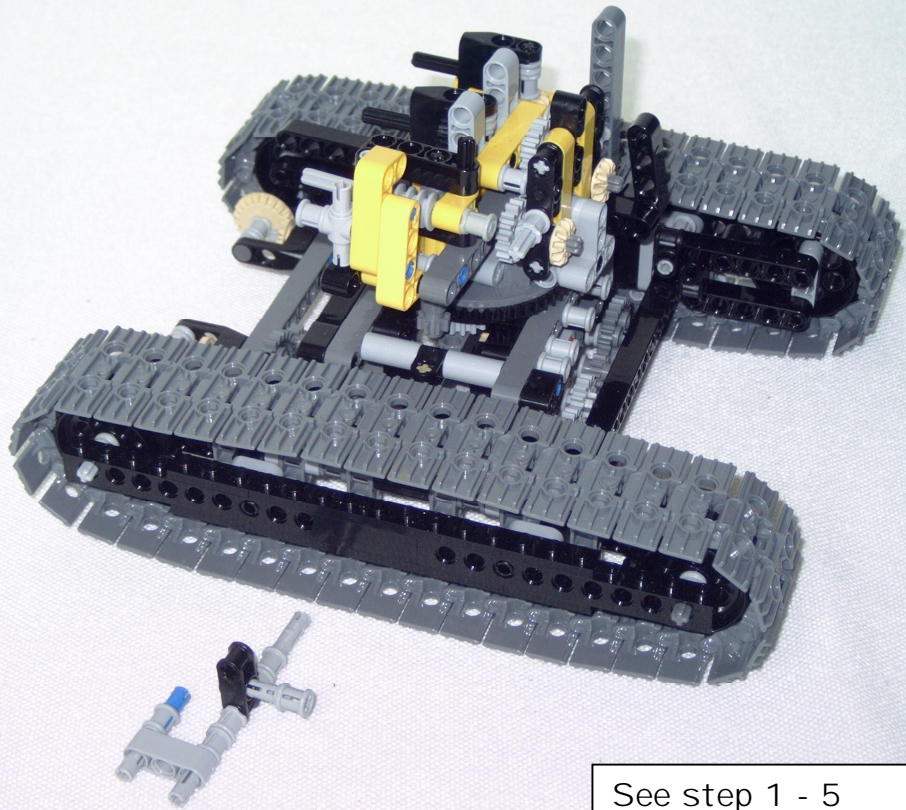
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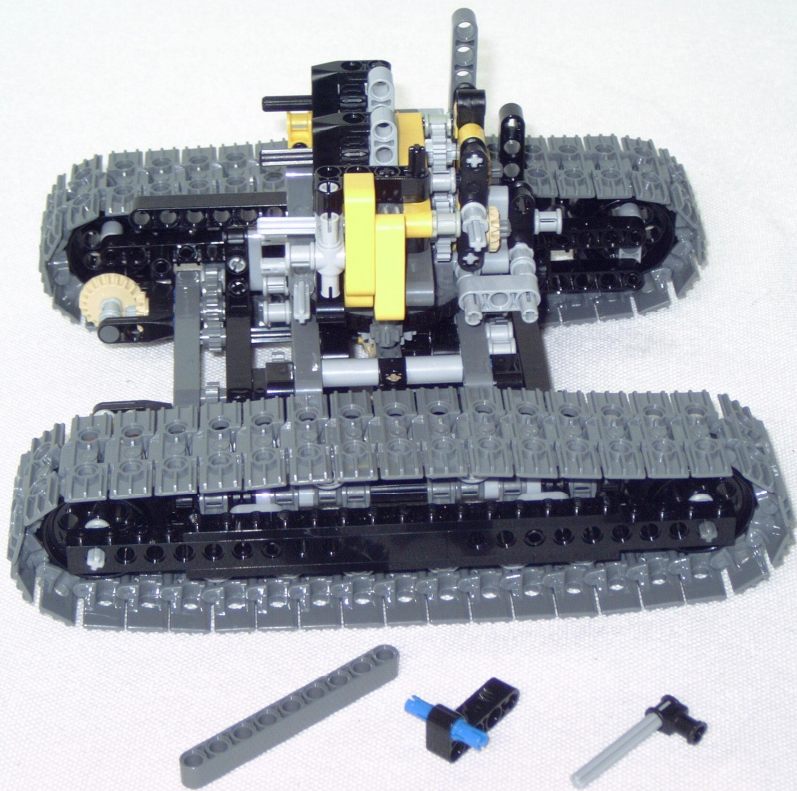


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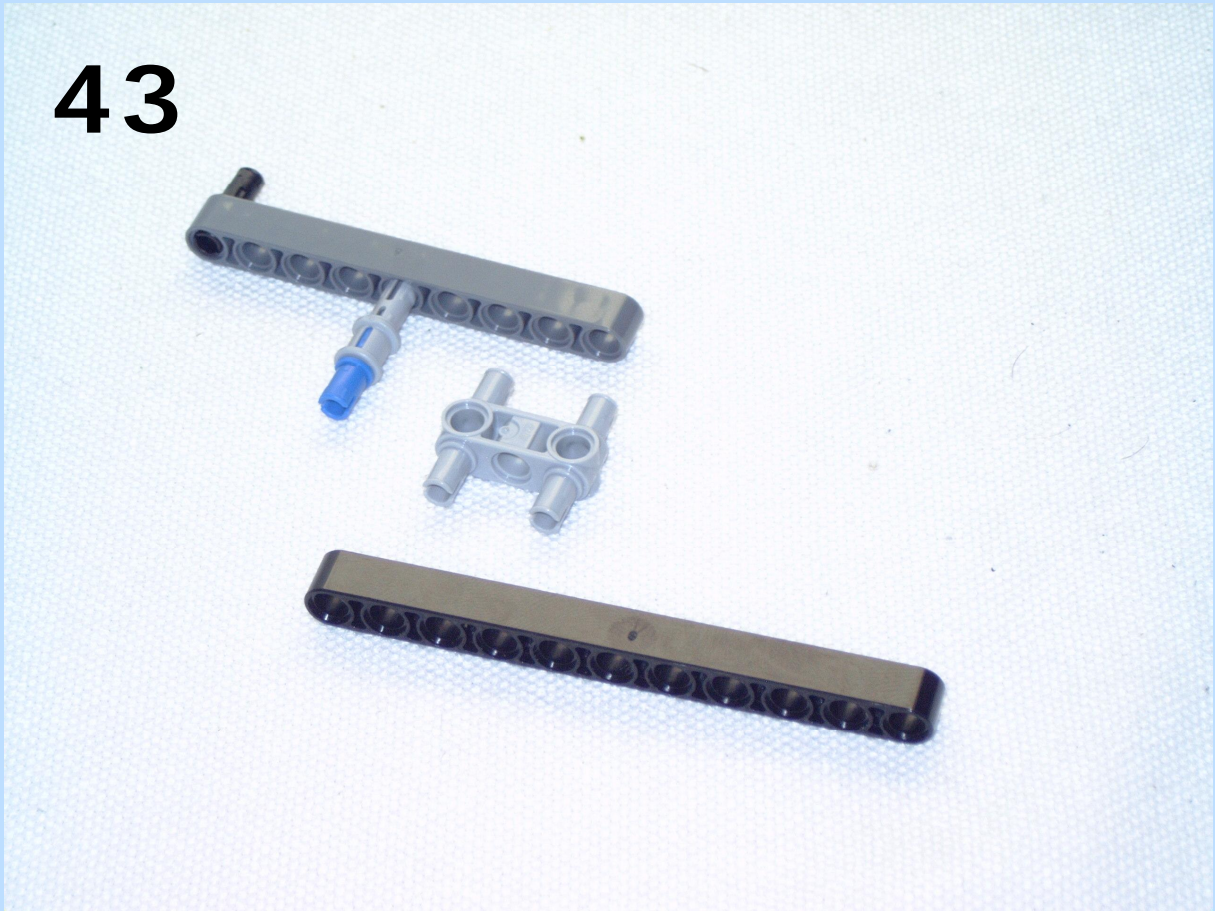


See step 1 - 5
(Book 2, page 28 - 29)

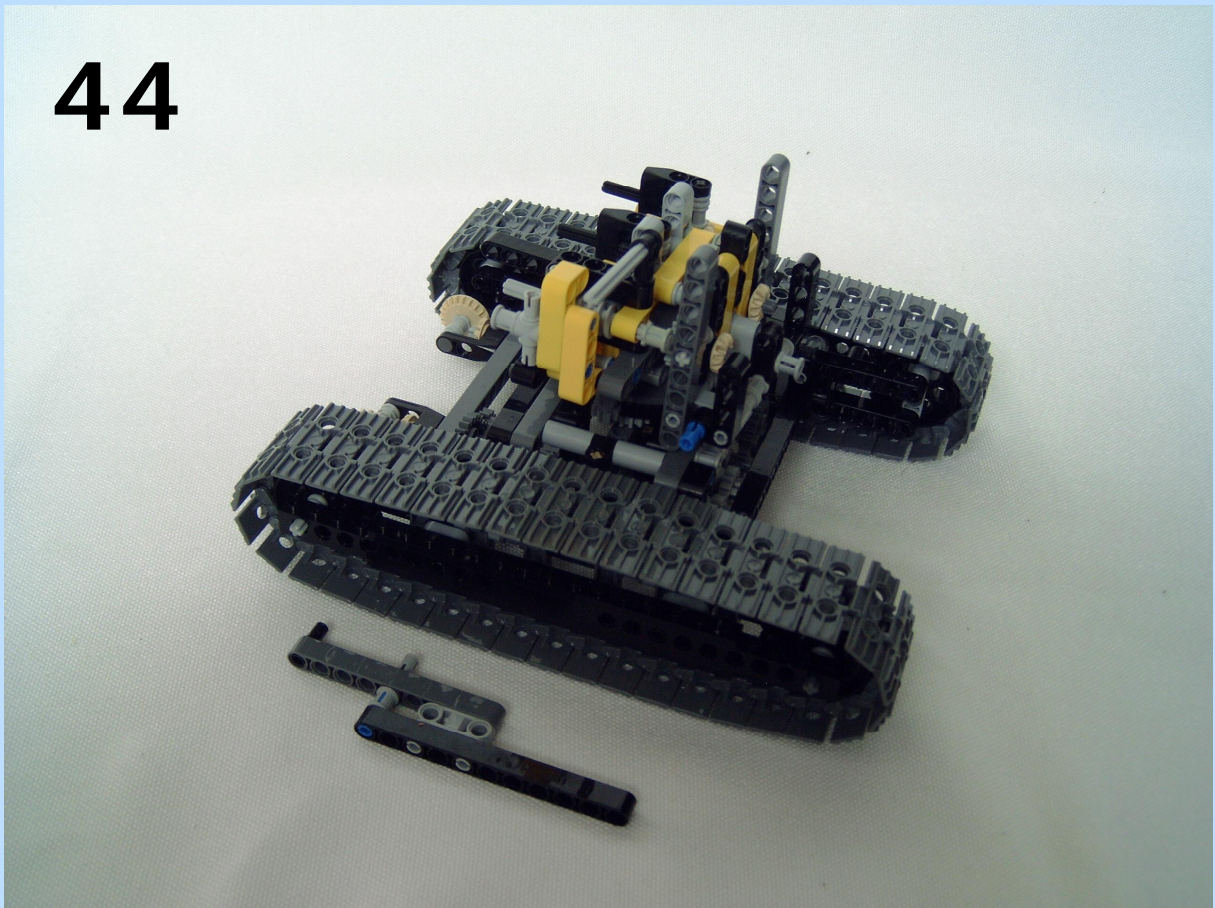
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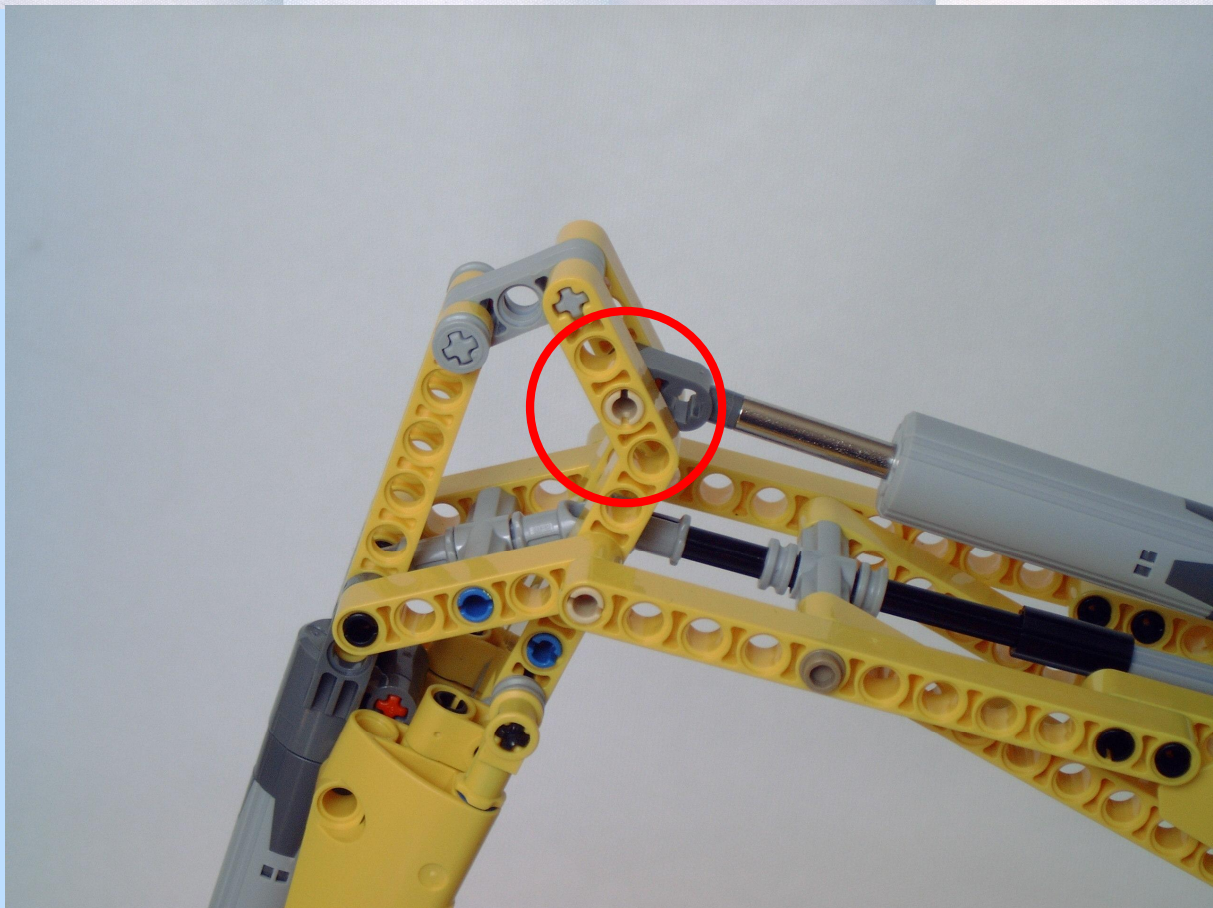
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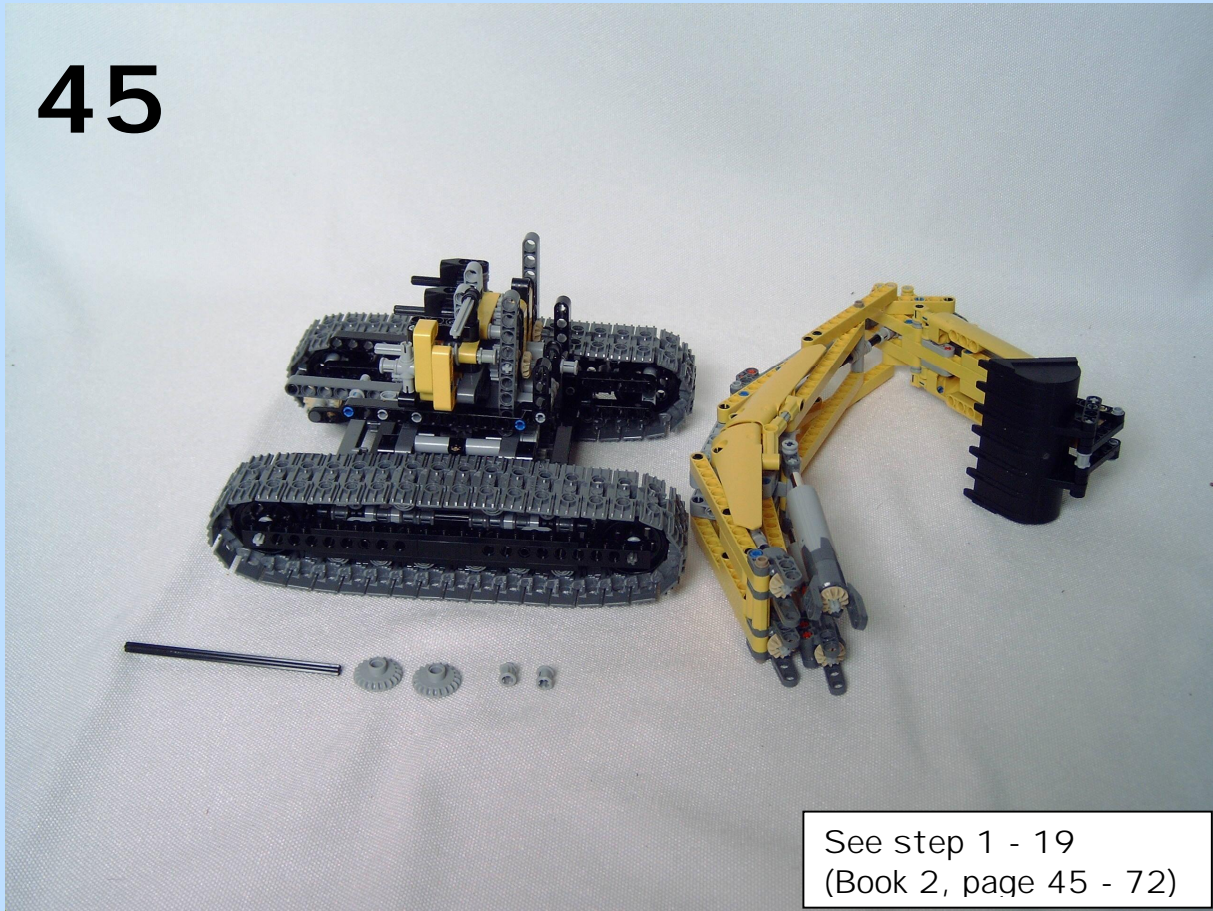
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Replace step 1 - 15, book 2, pag.59 - 68 with this assembly

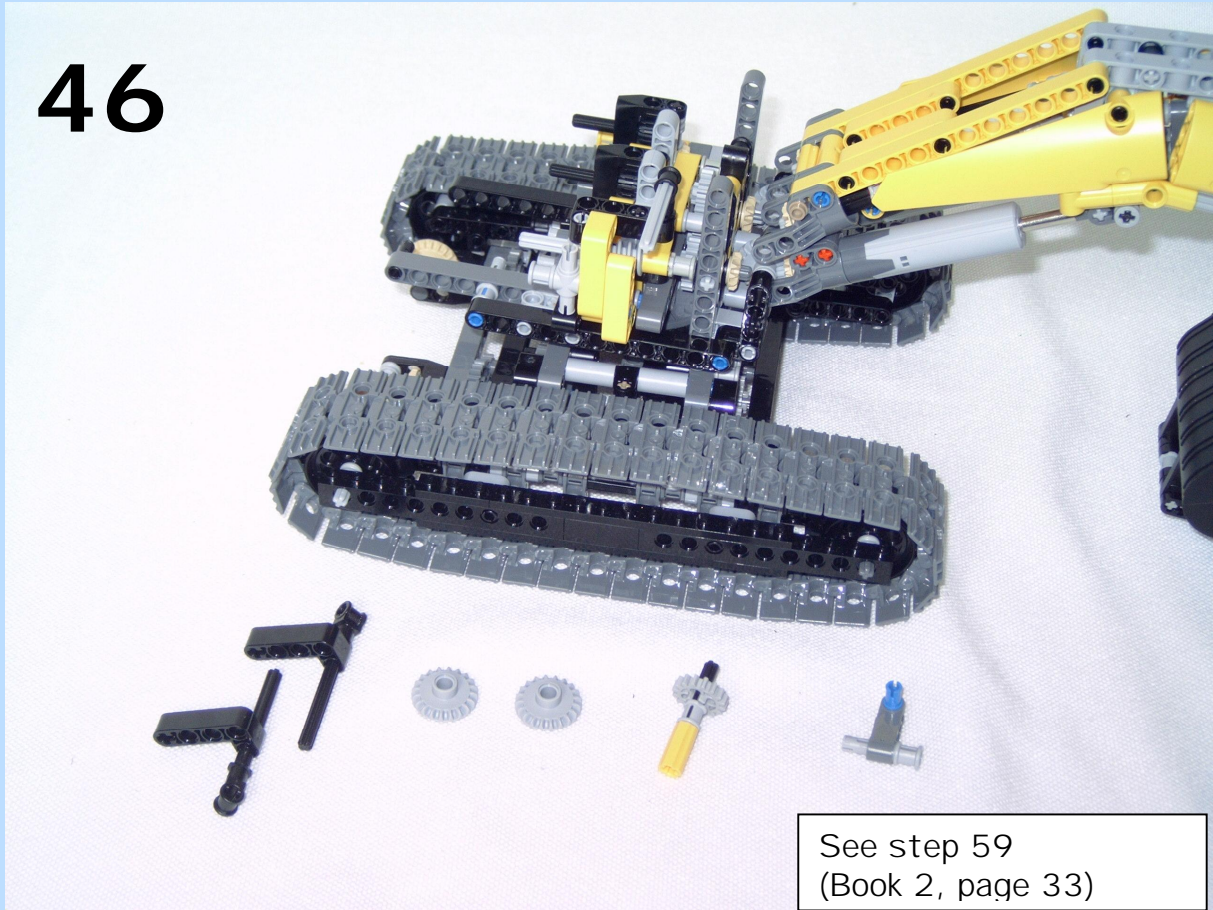


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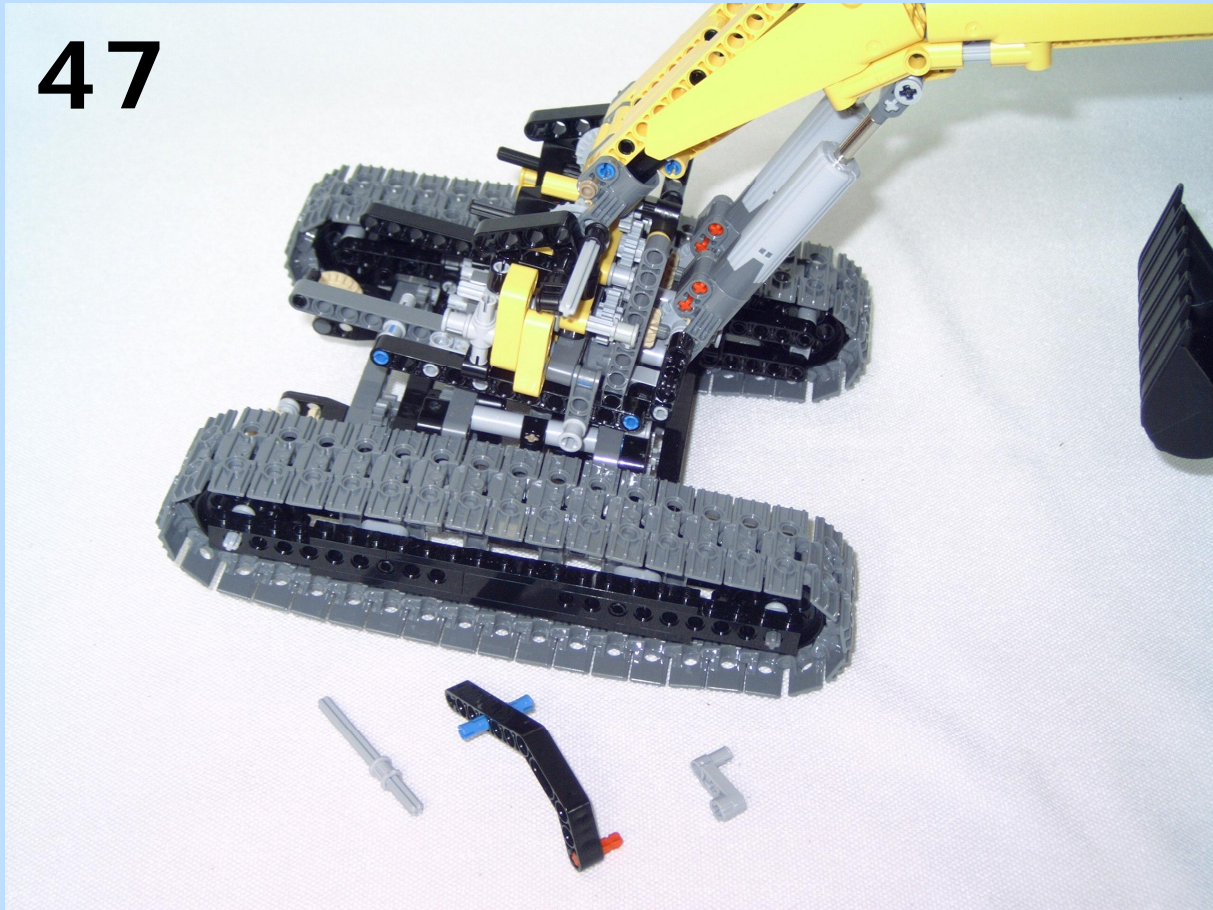
See step 1 - 19
(Book 2, page 45 - 72)

46

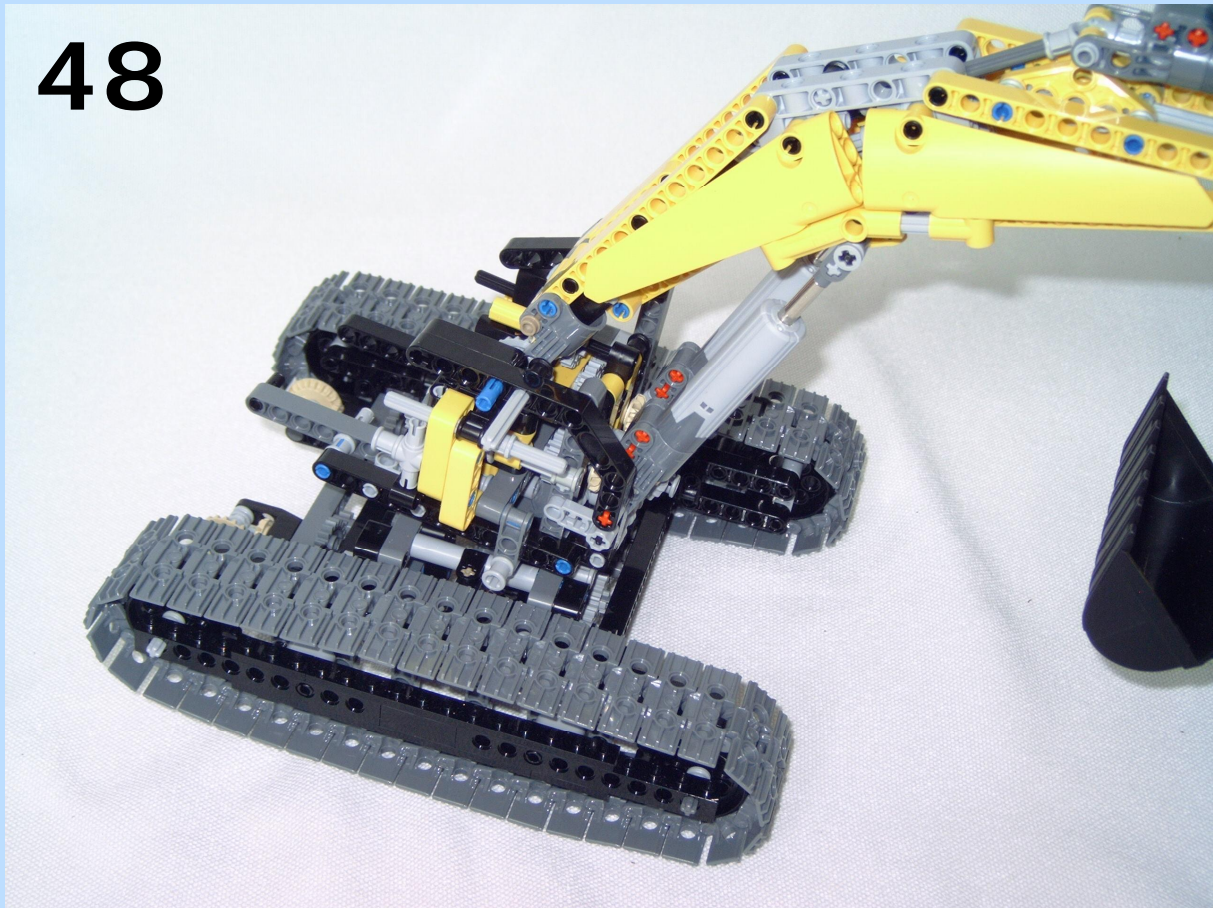


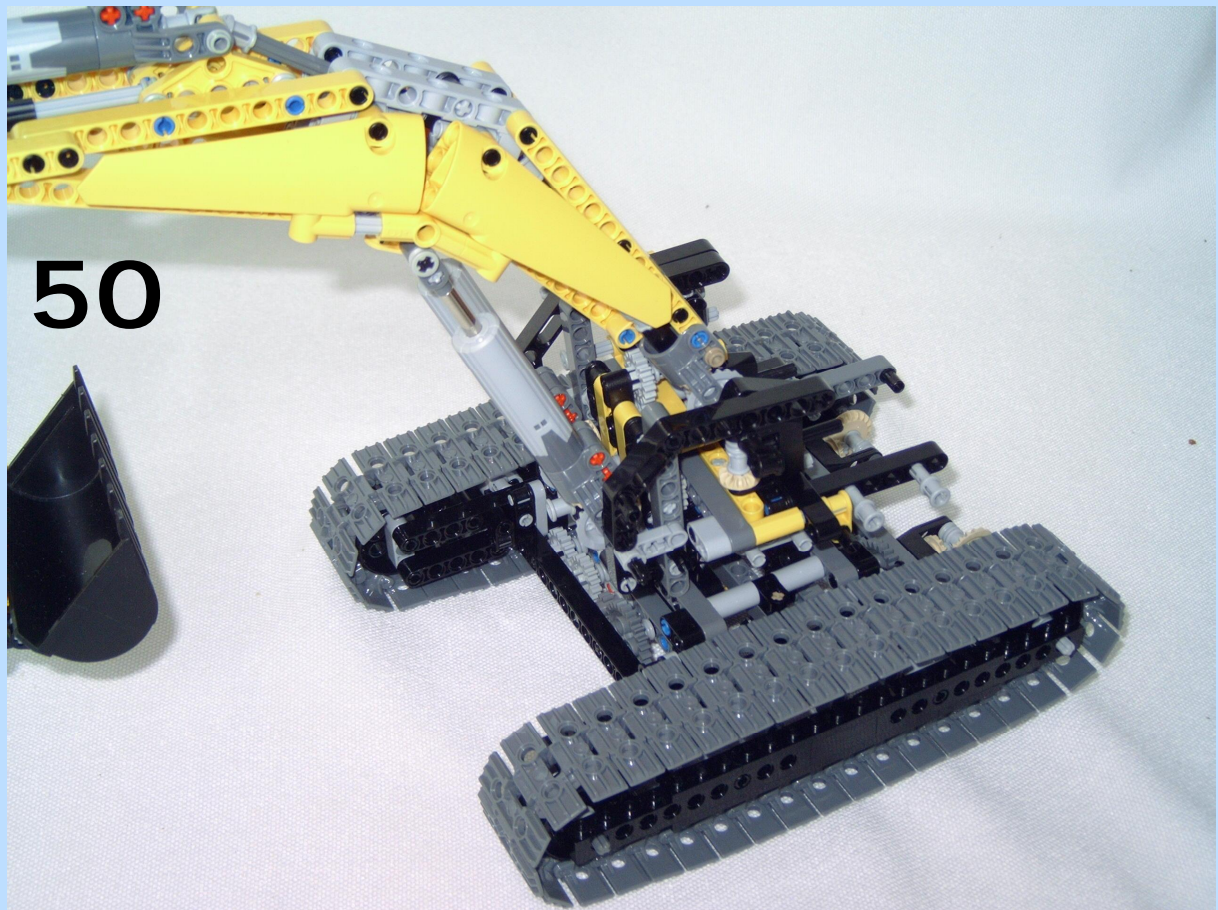
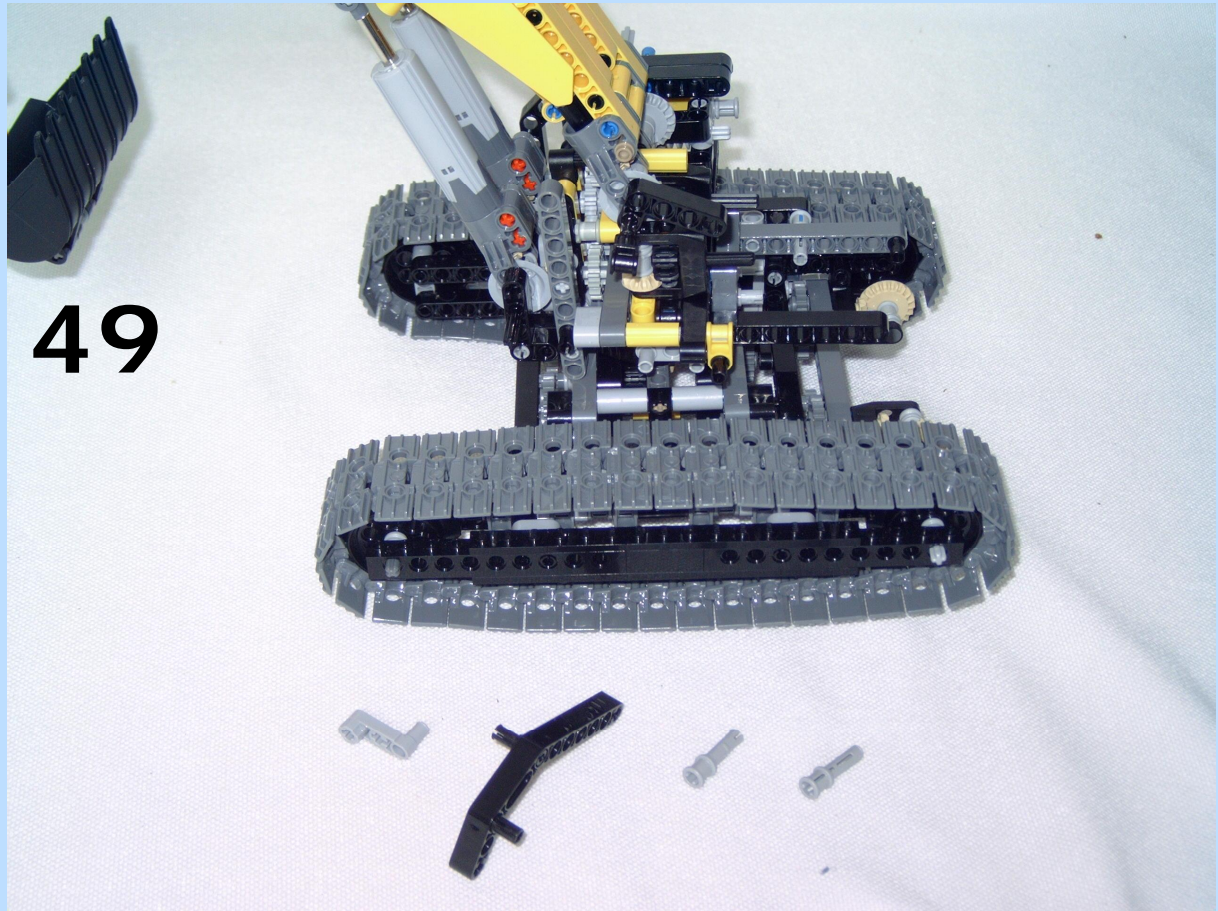
See step 59
(Book 2, page 33)

47

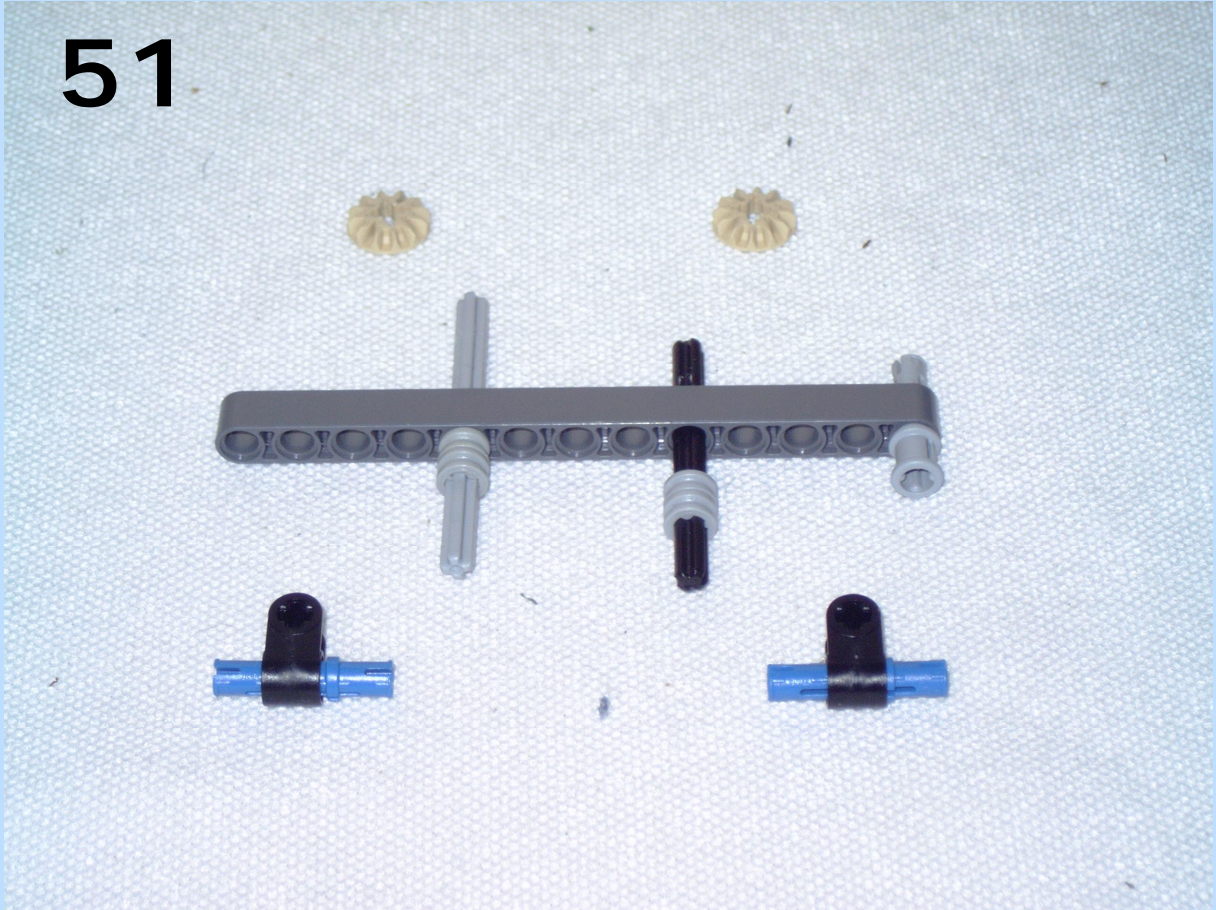


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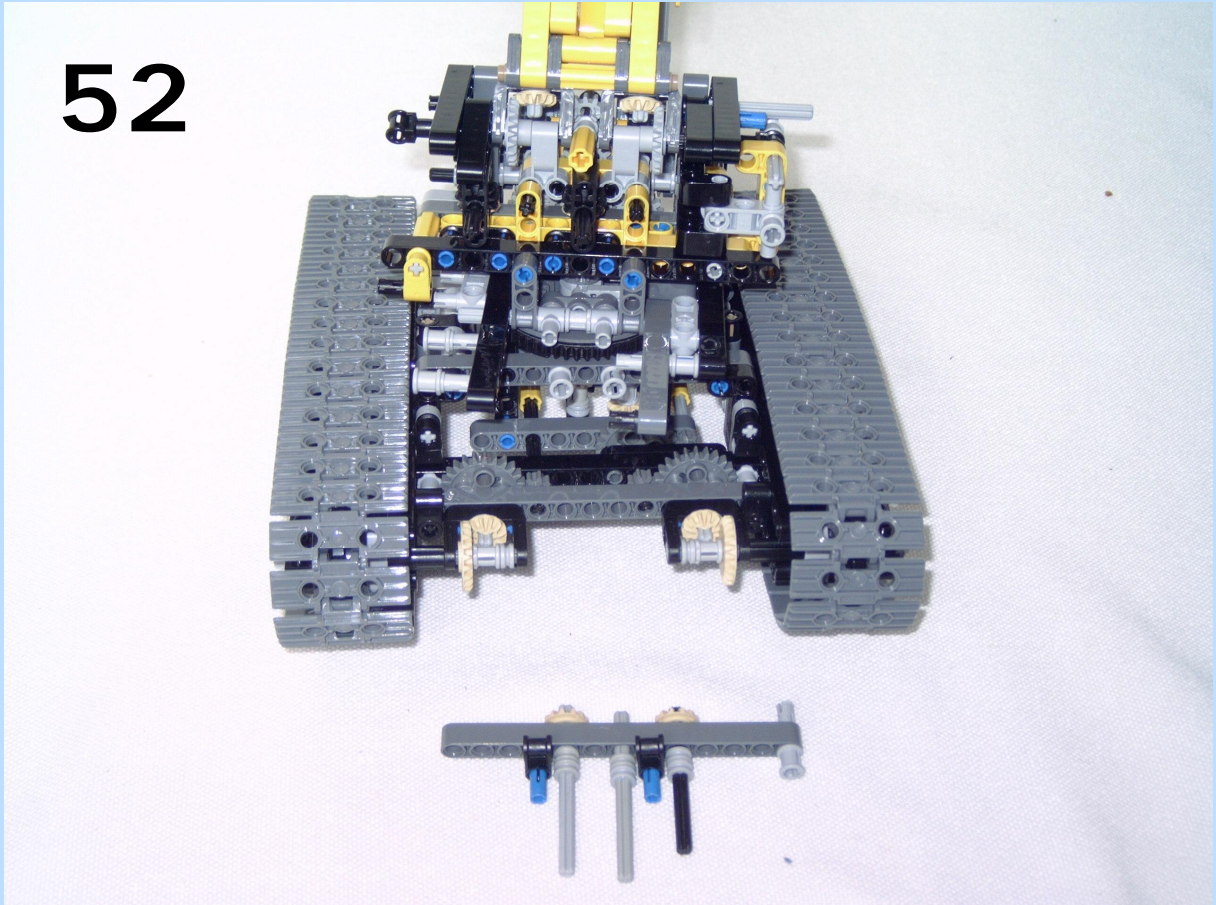




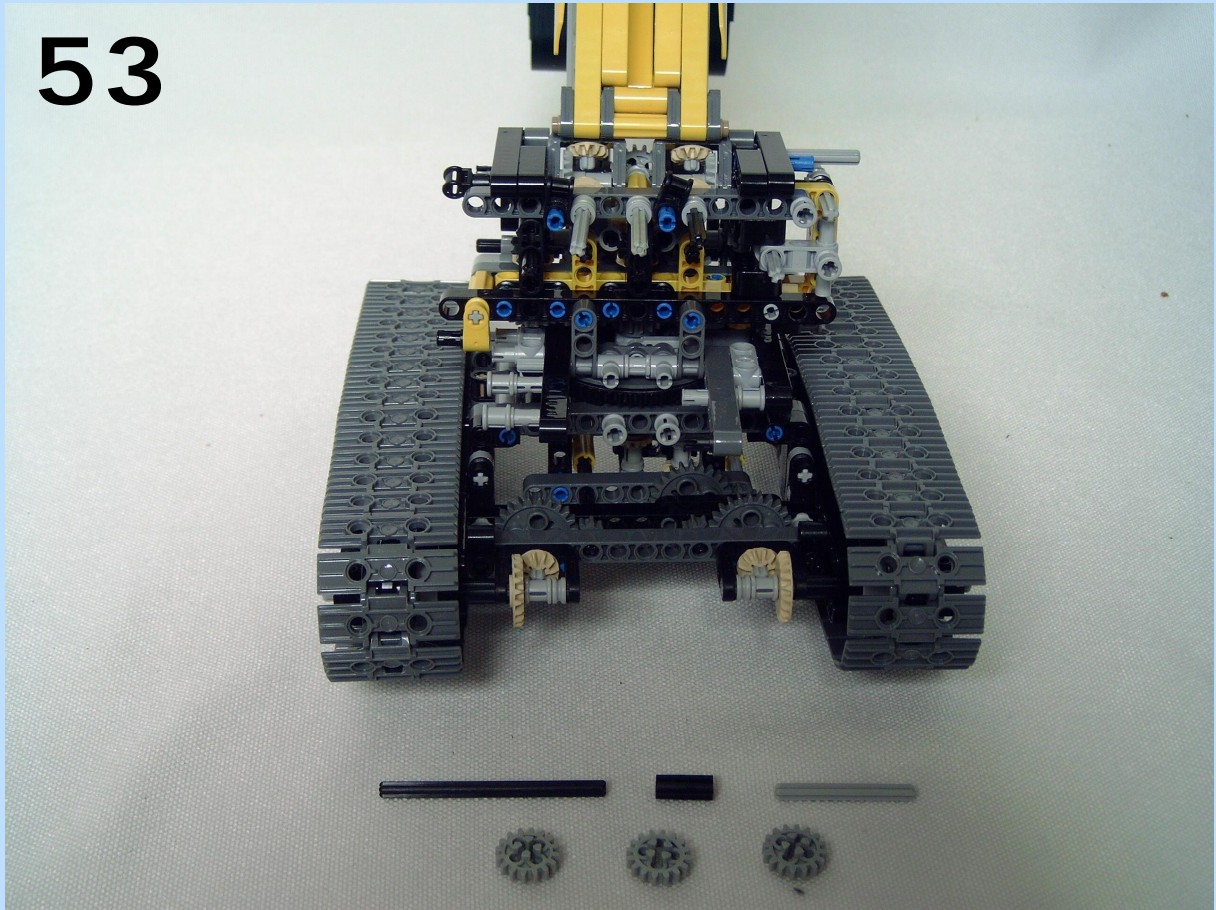
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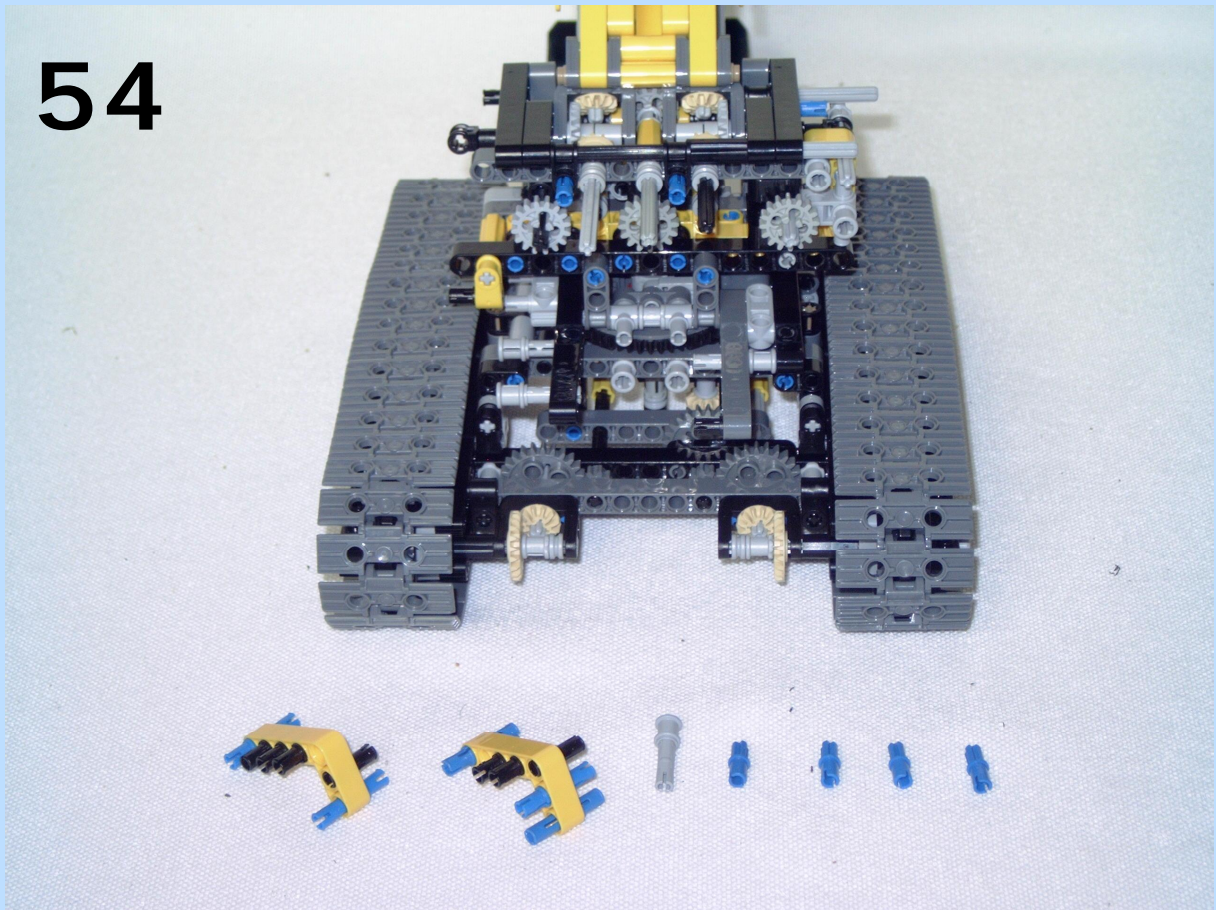
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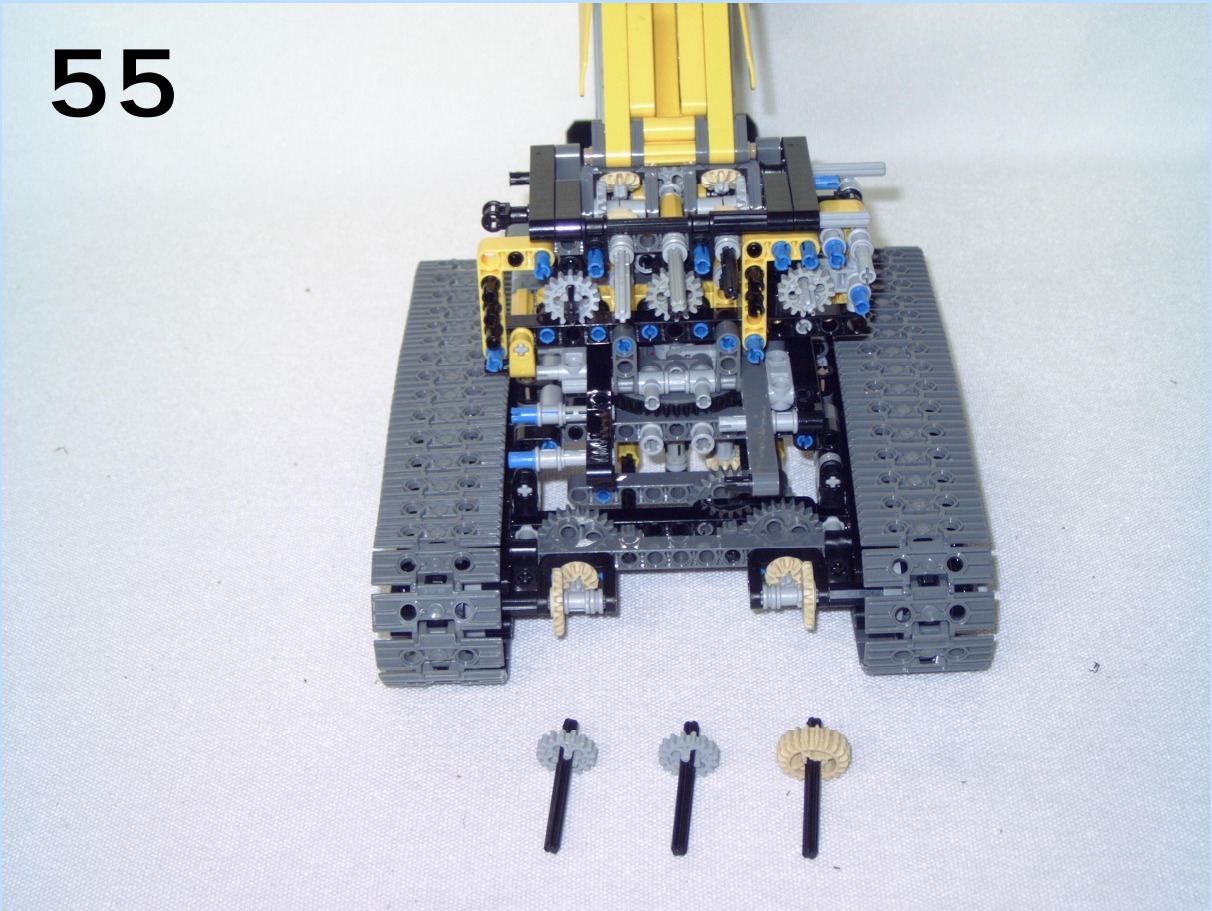
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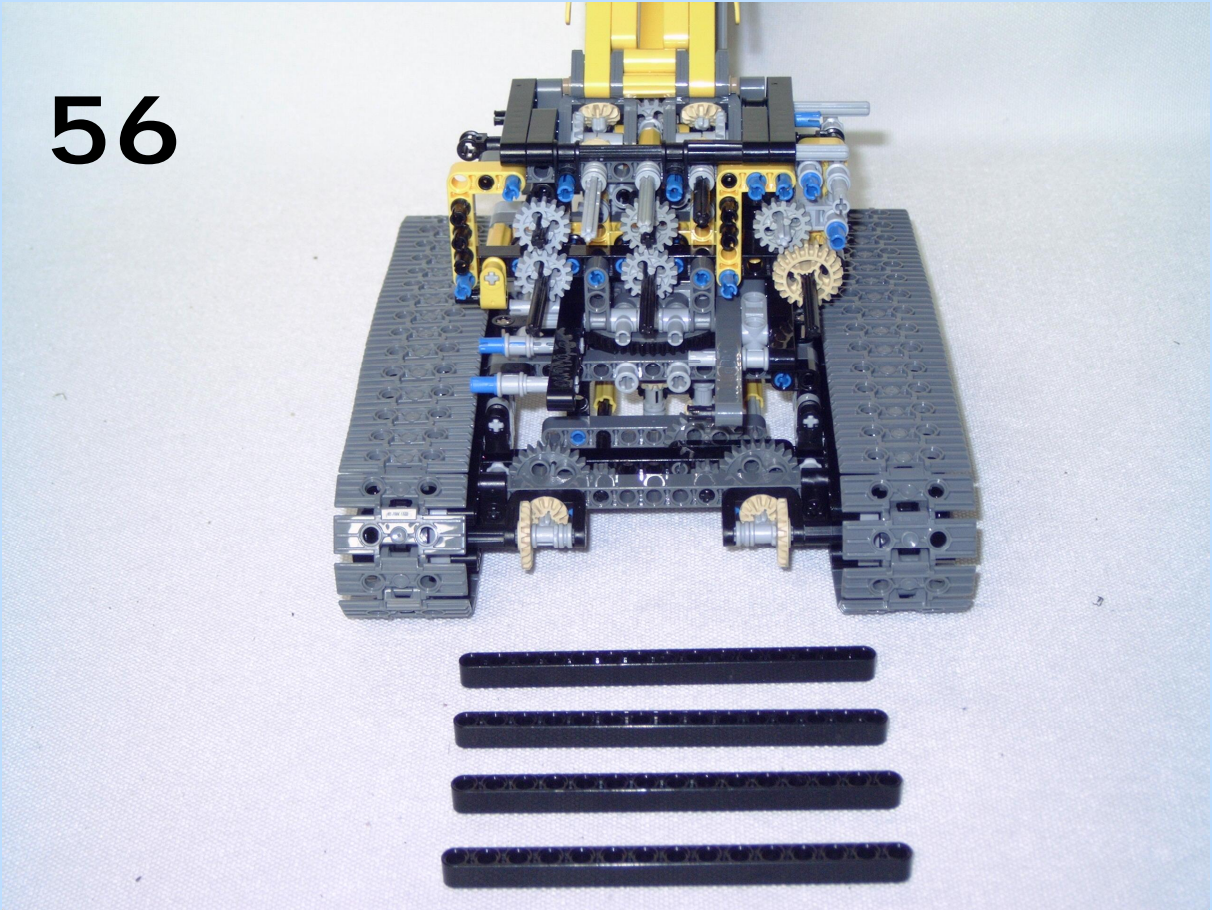
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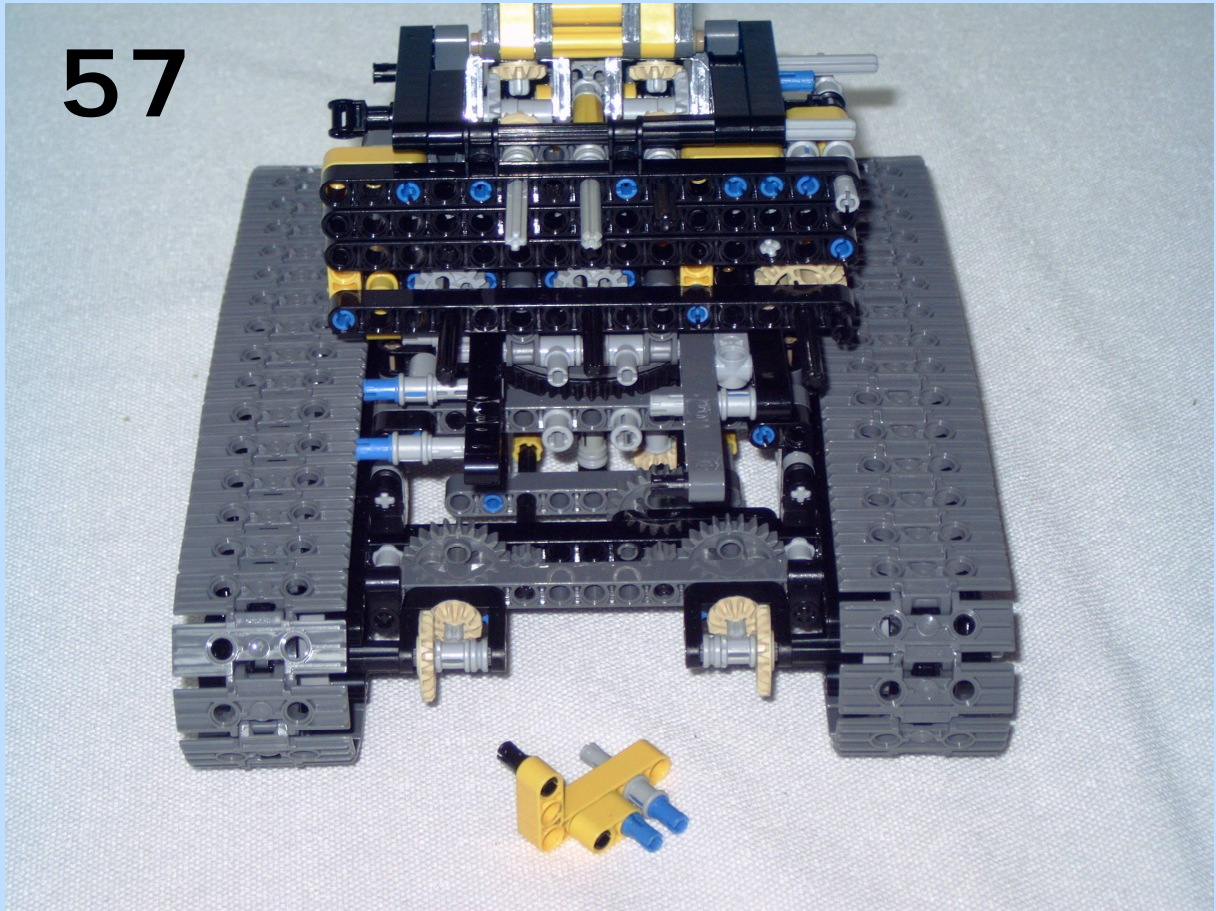
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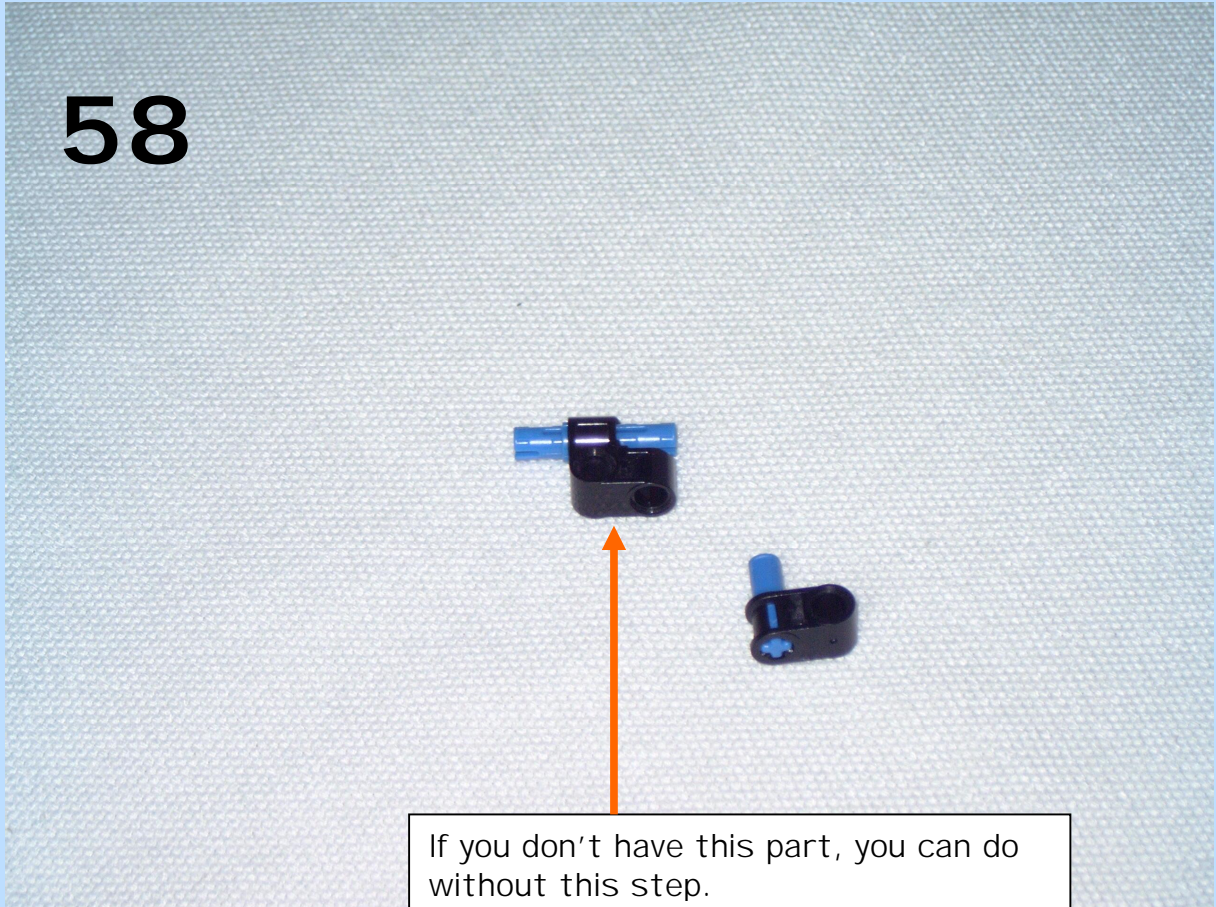
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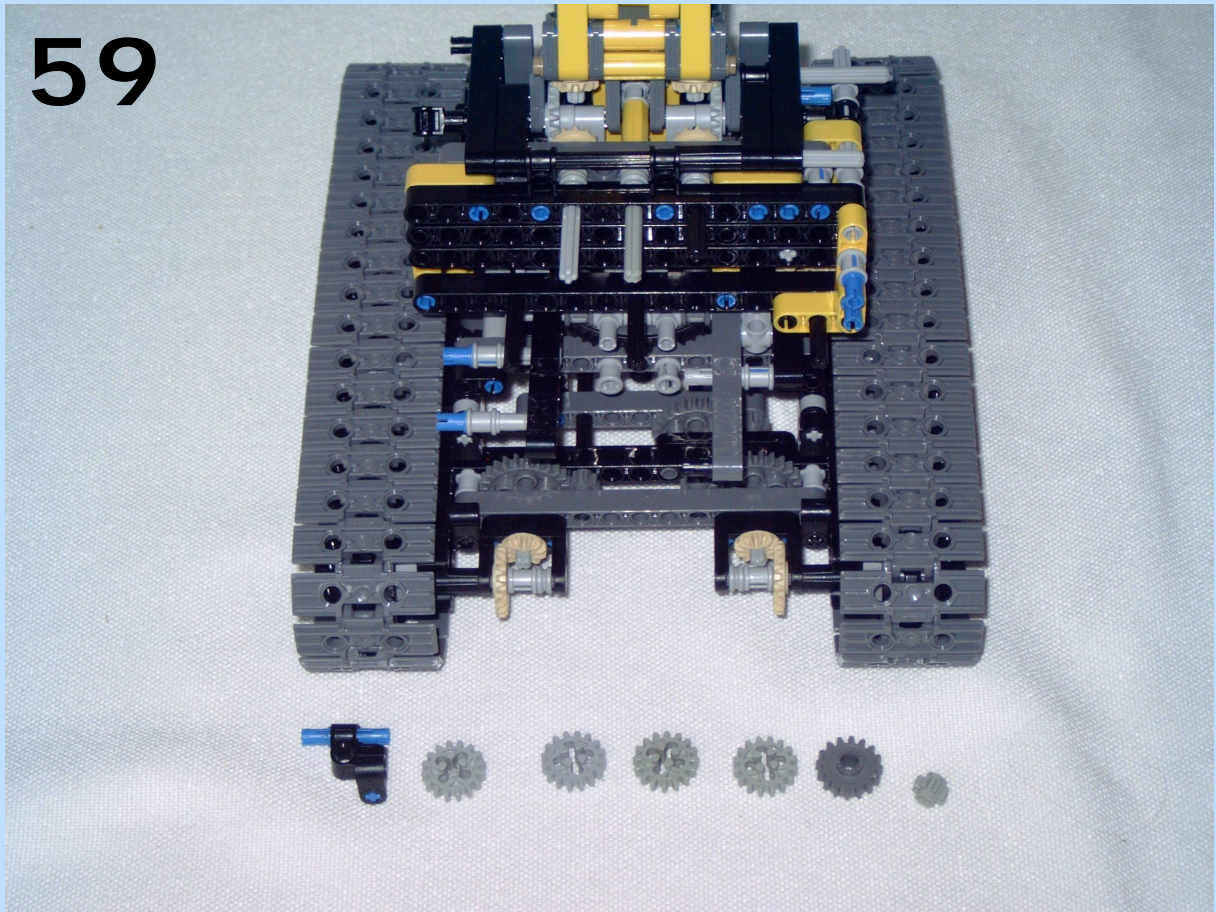


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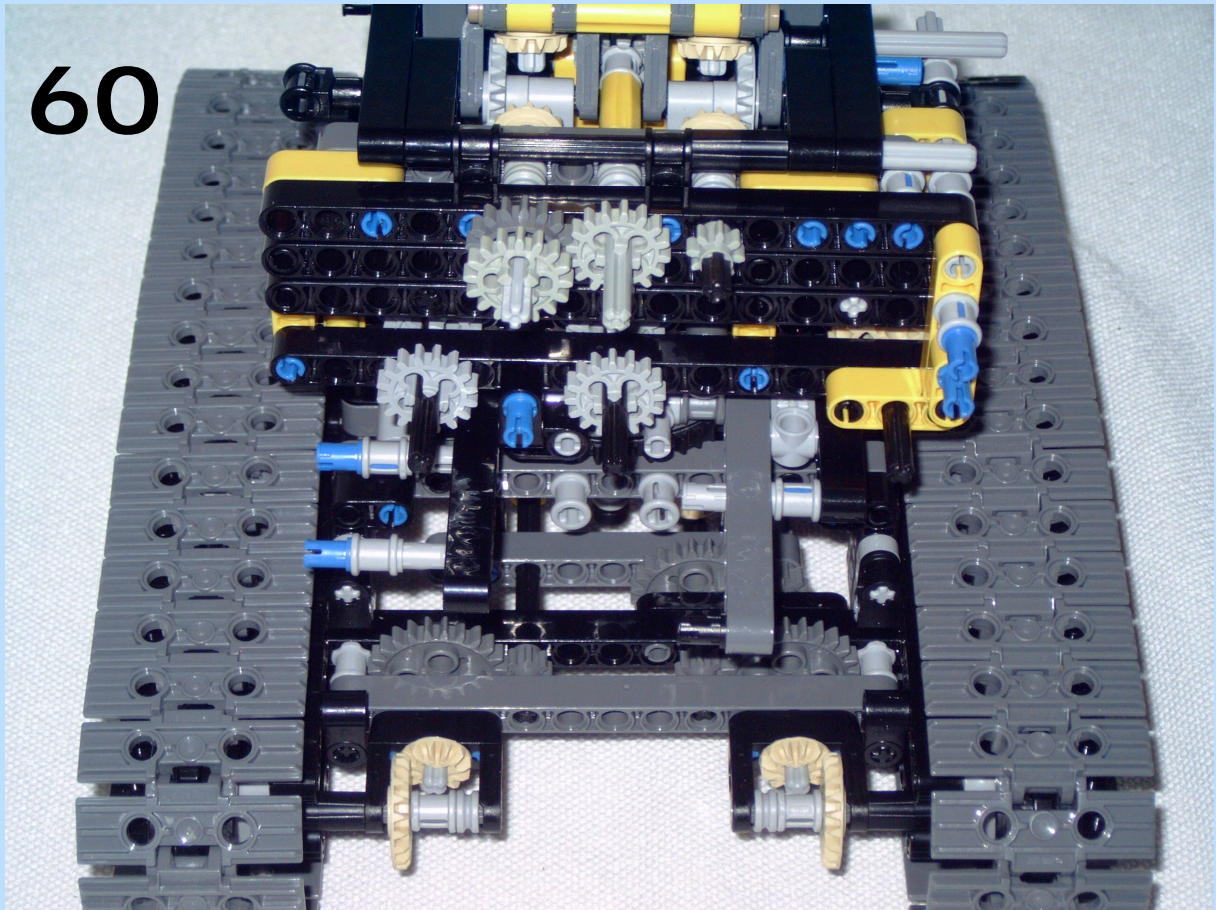


If you don't have this part, you can do without this step.

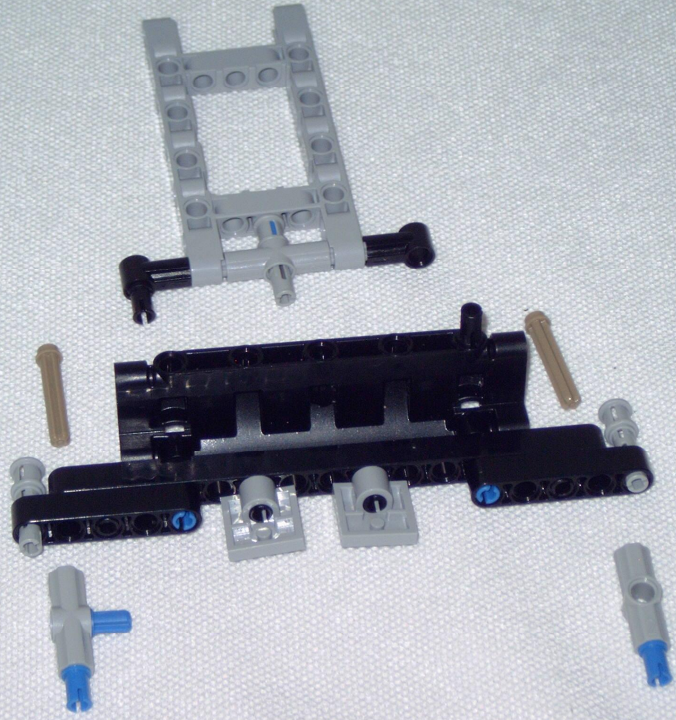
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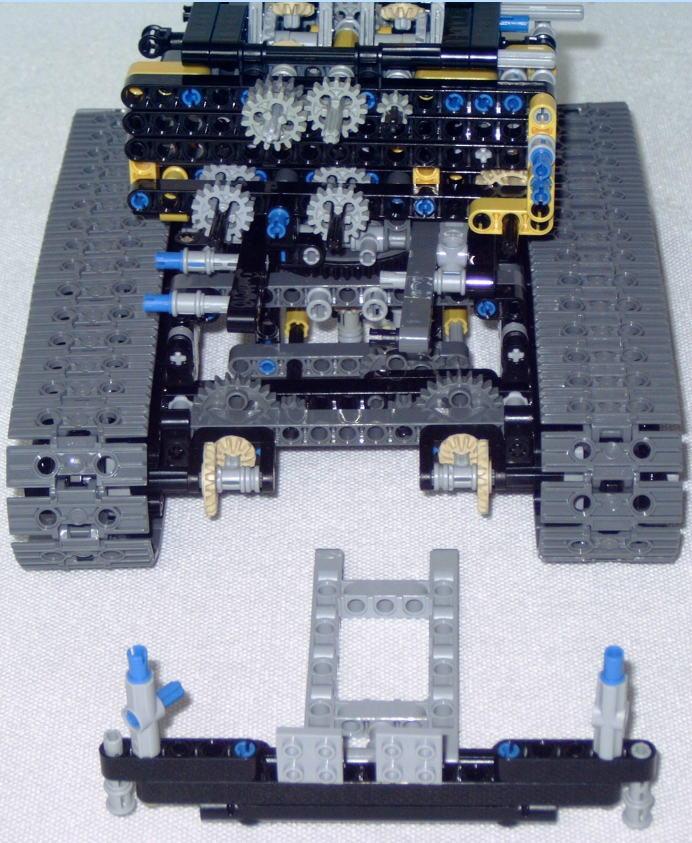


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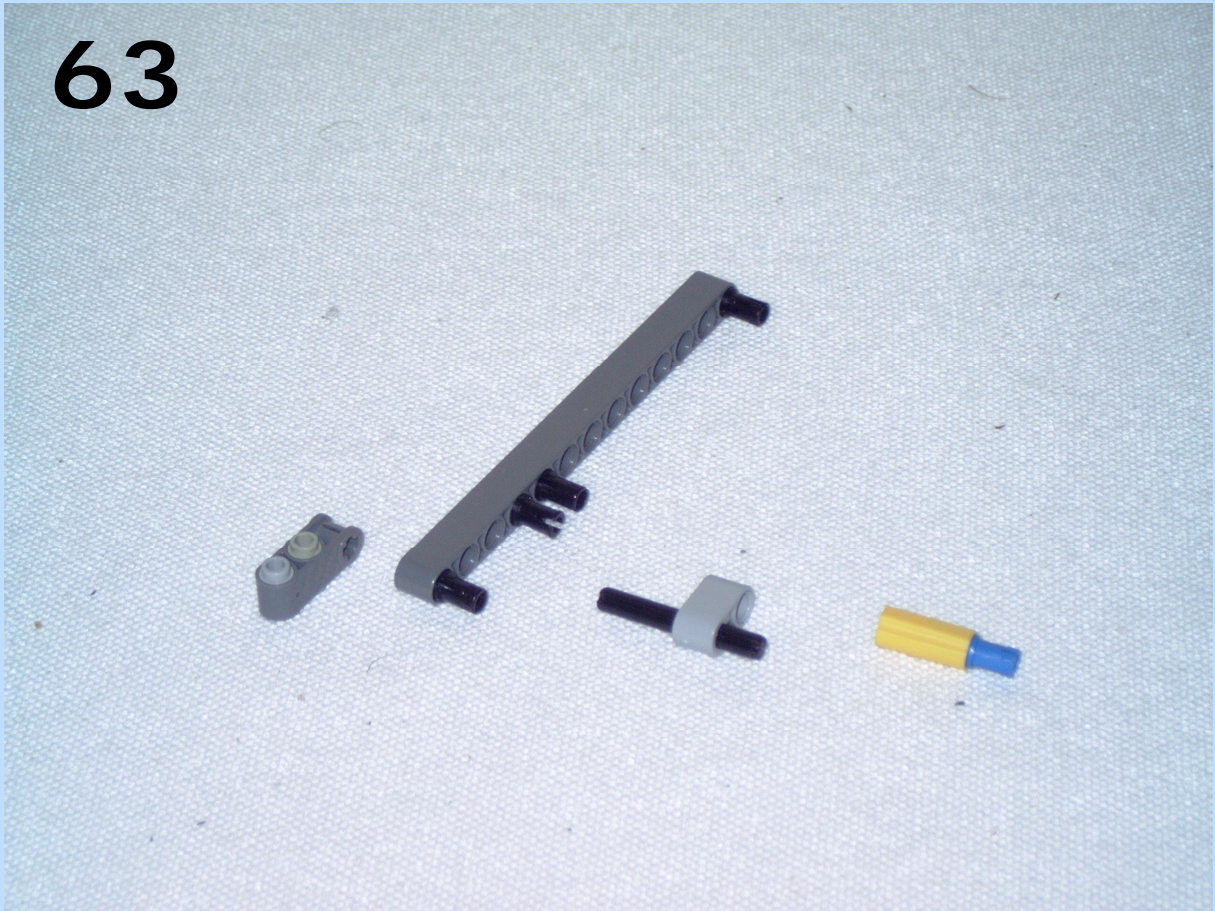


See step 1 - 8
(Book 1, page 53 - 55)

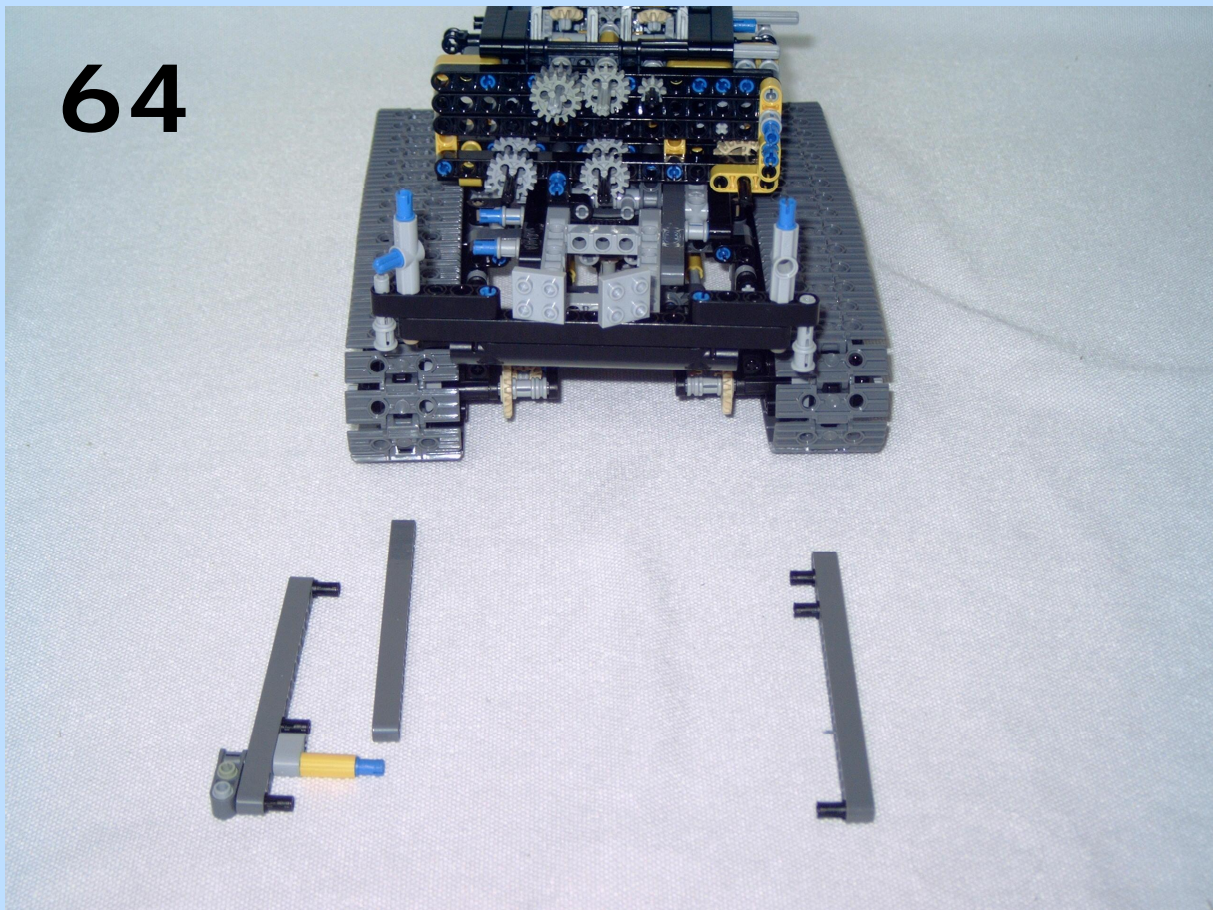
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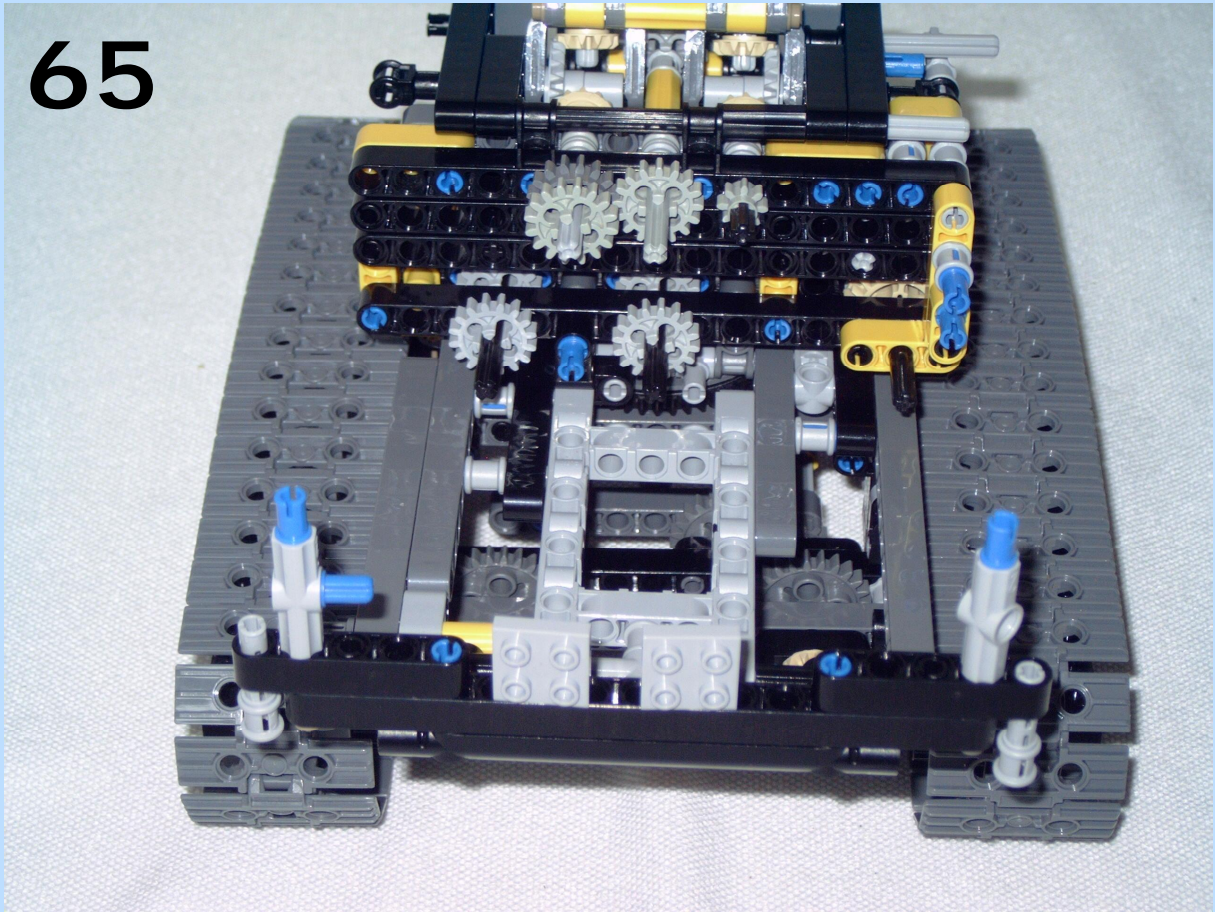
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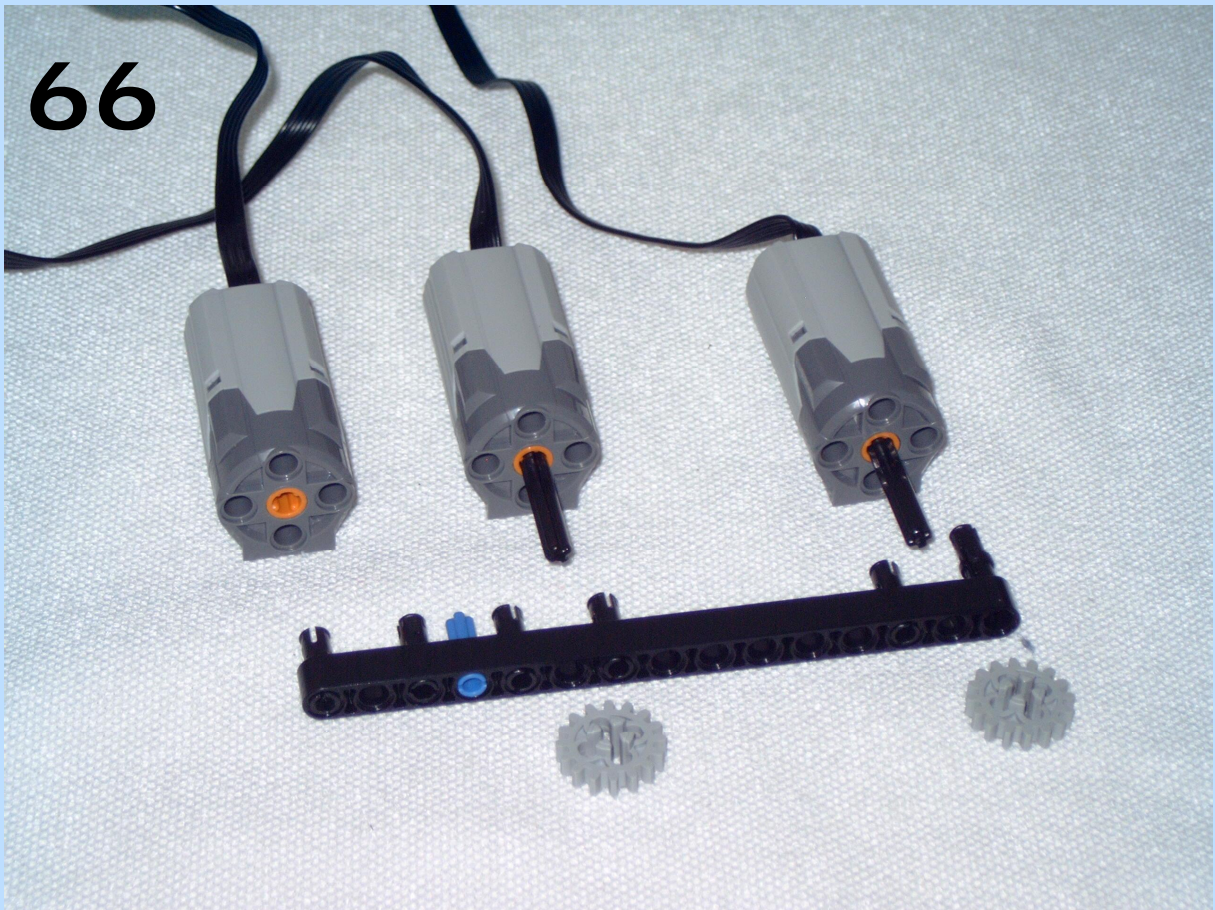
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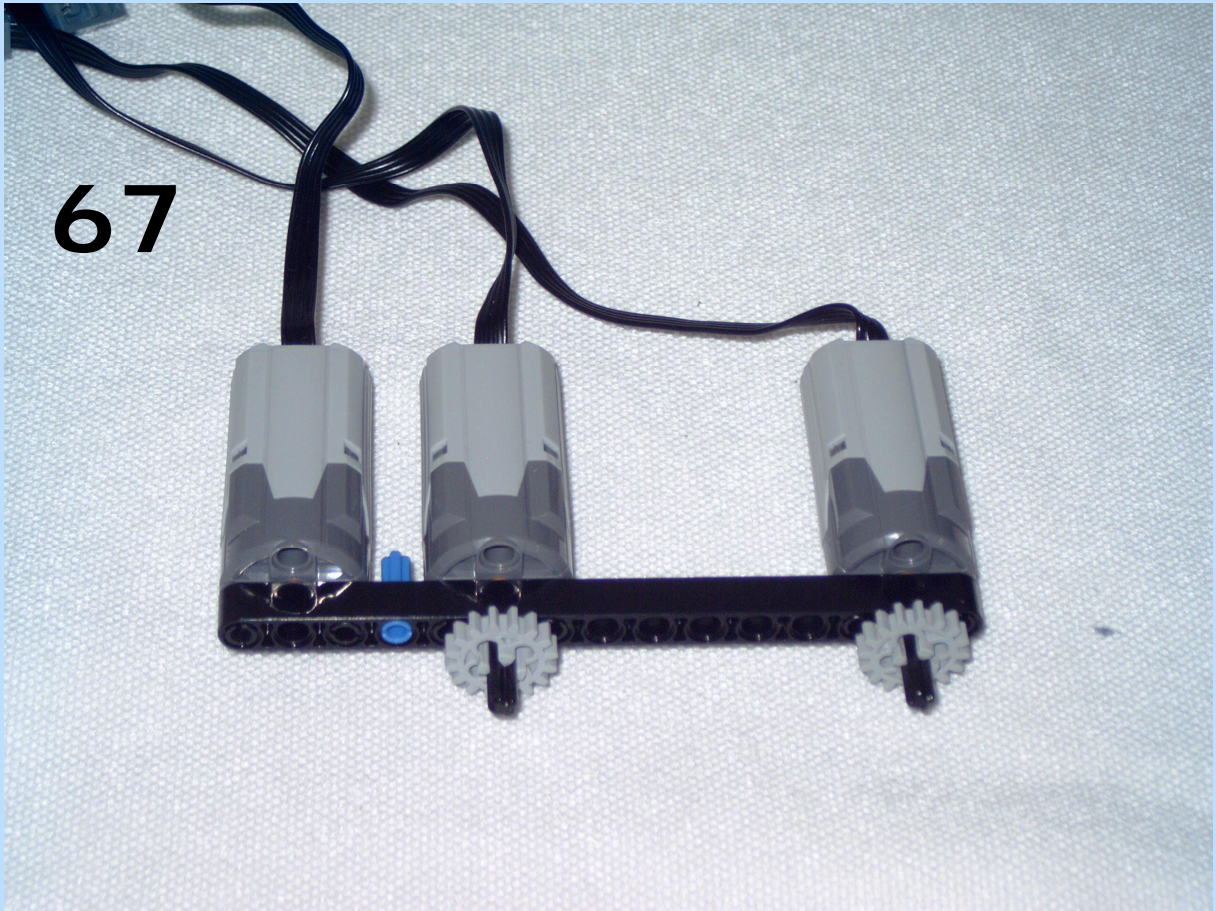
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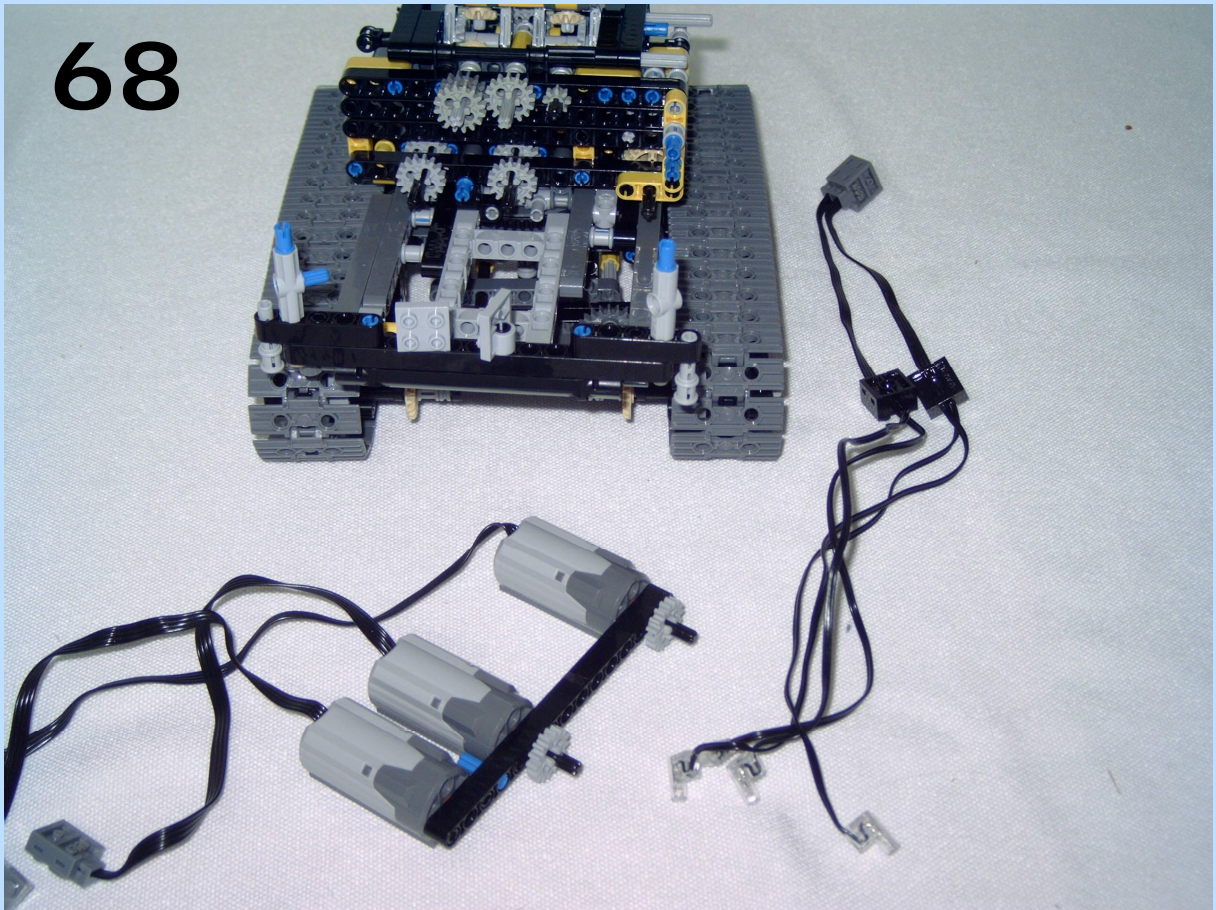
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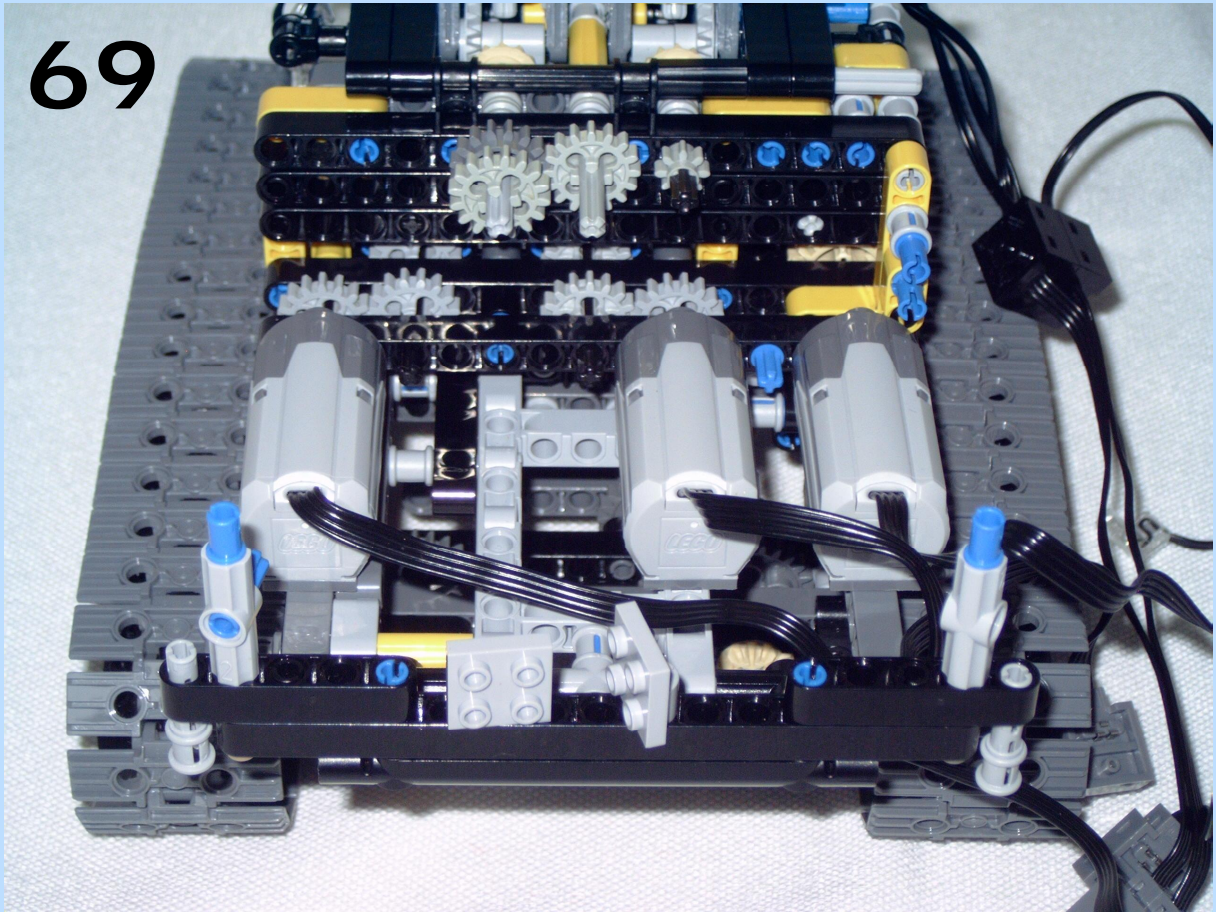
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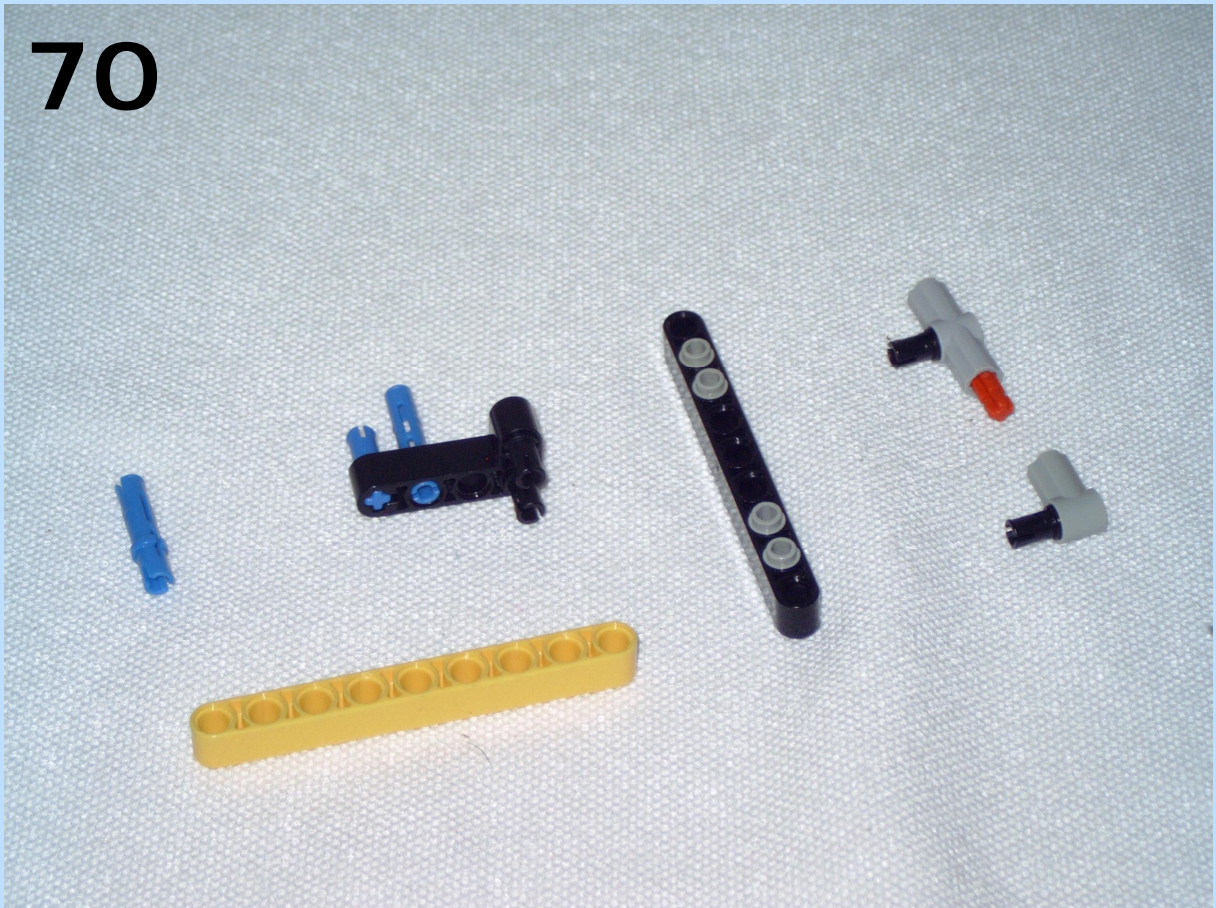
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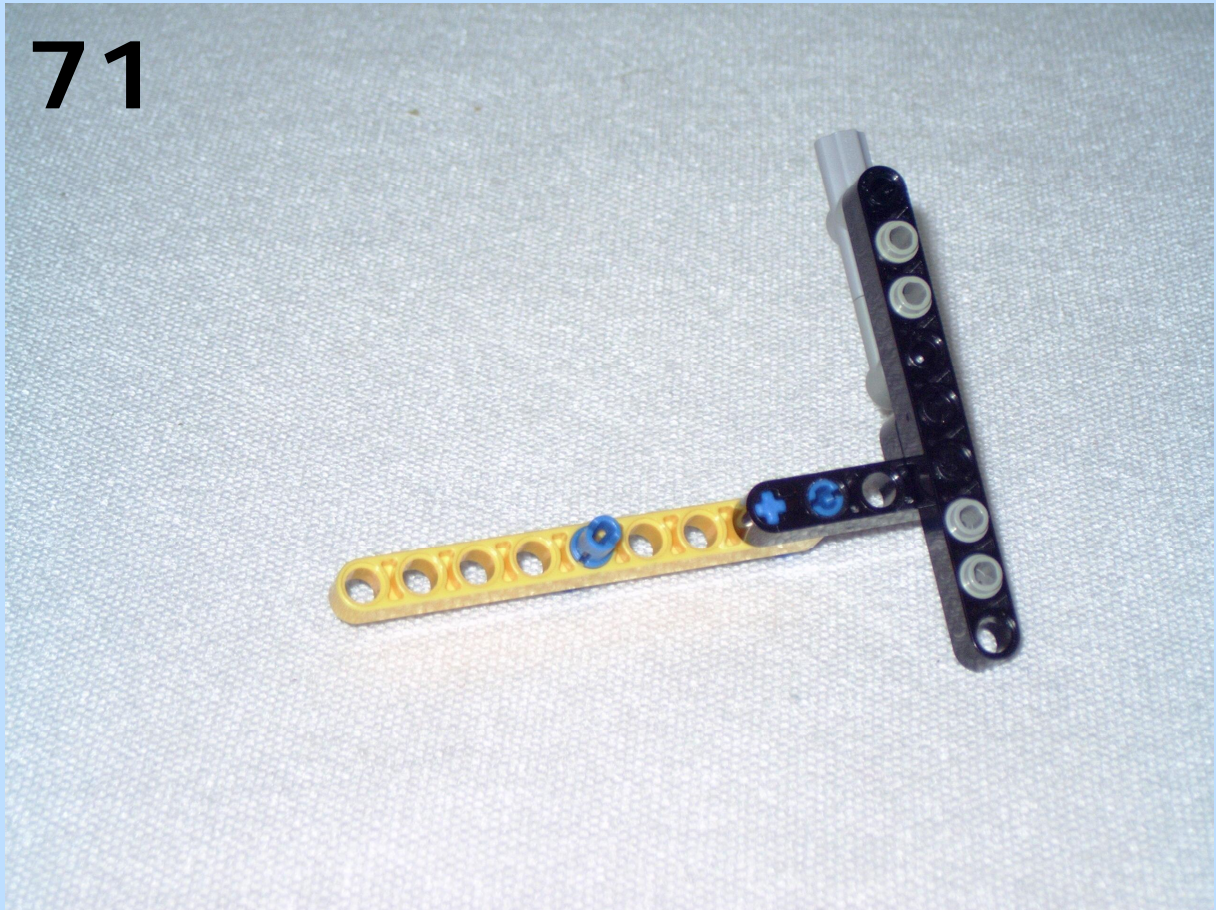
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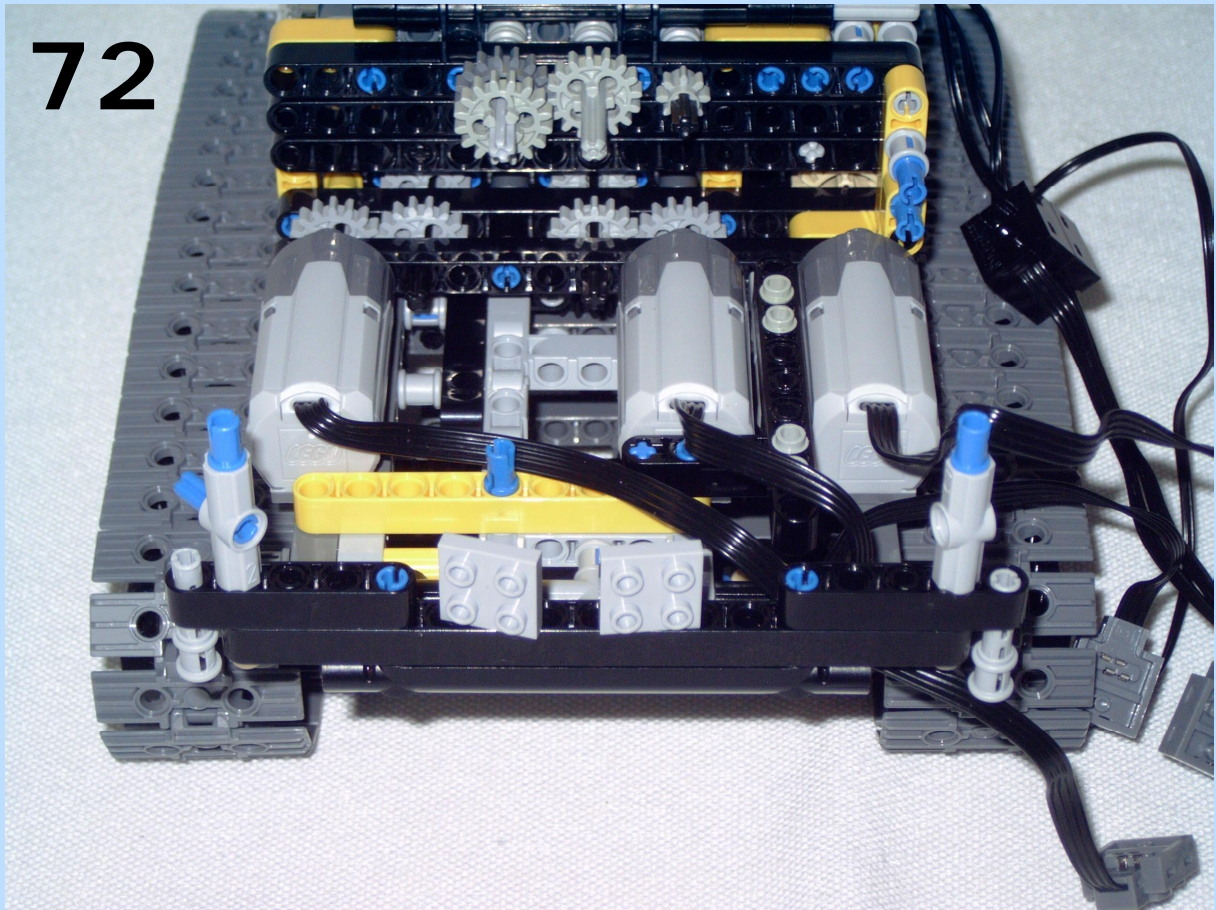
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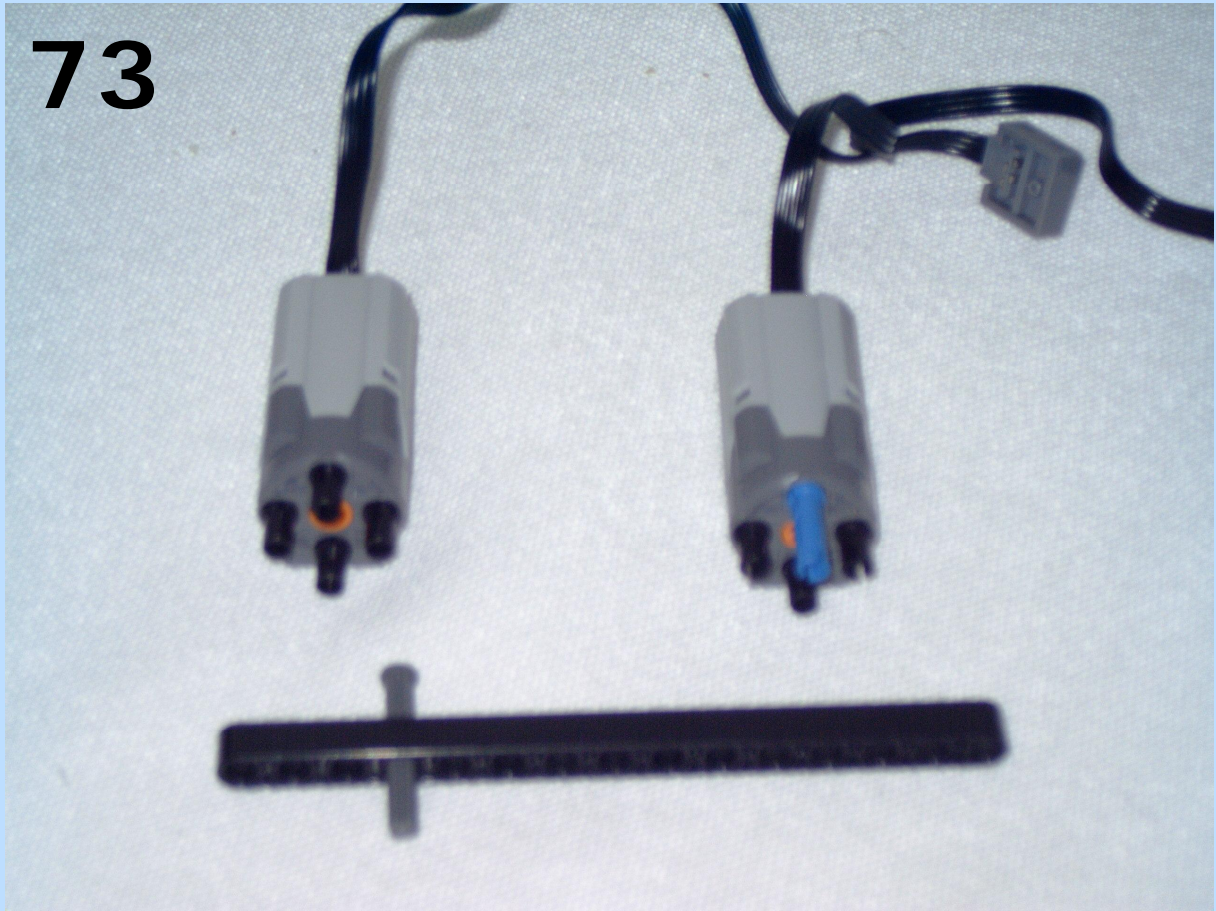
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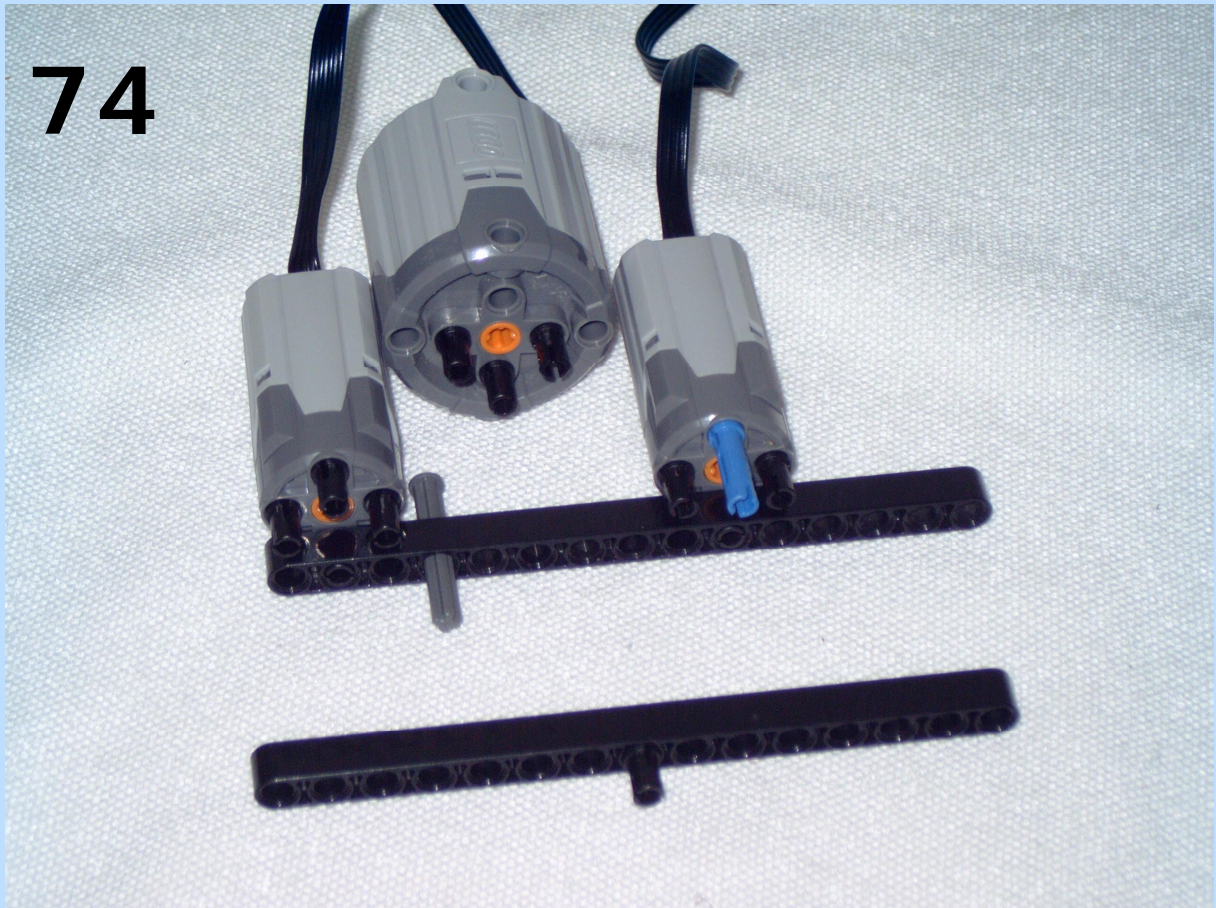
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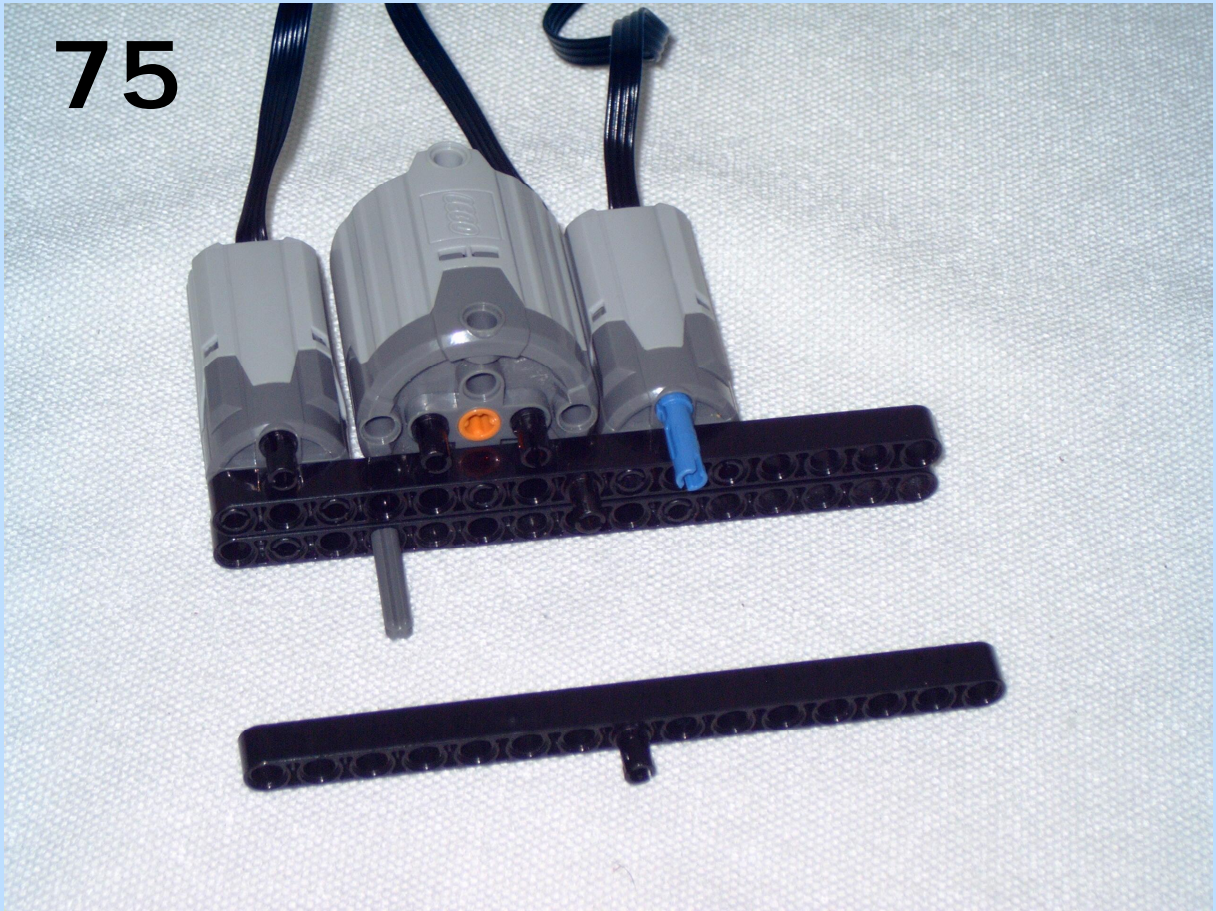
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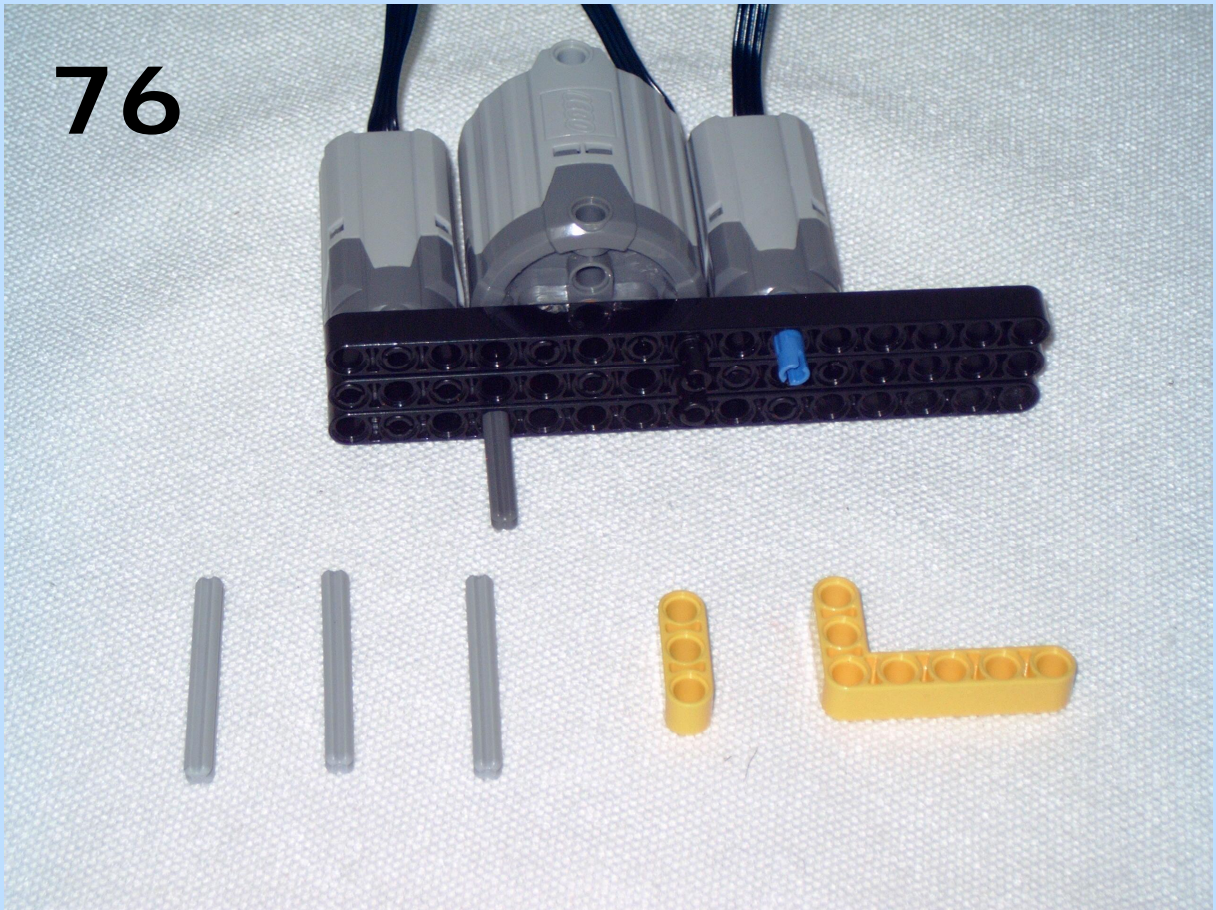
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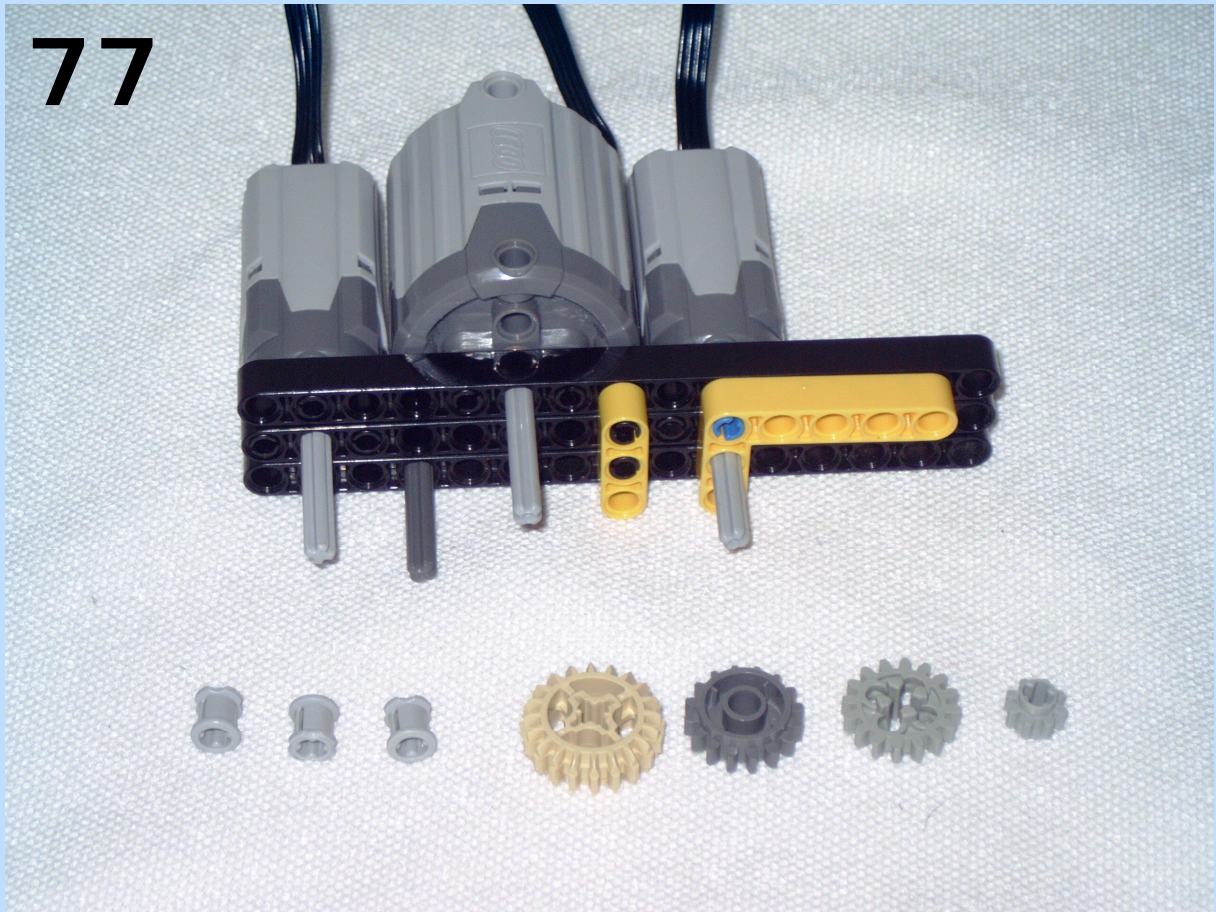
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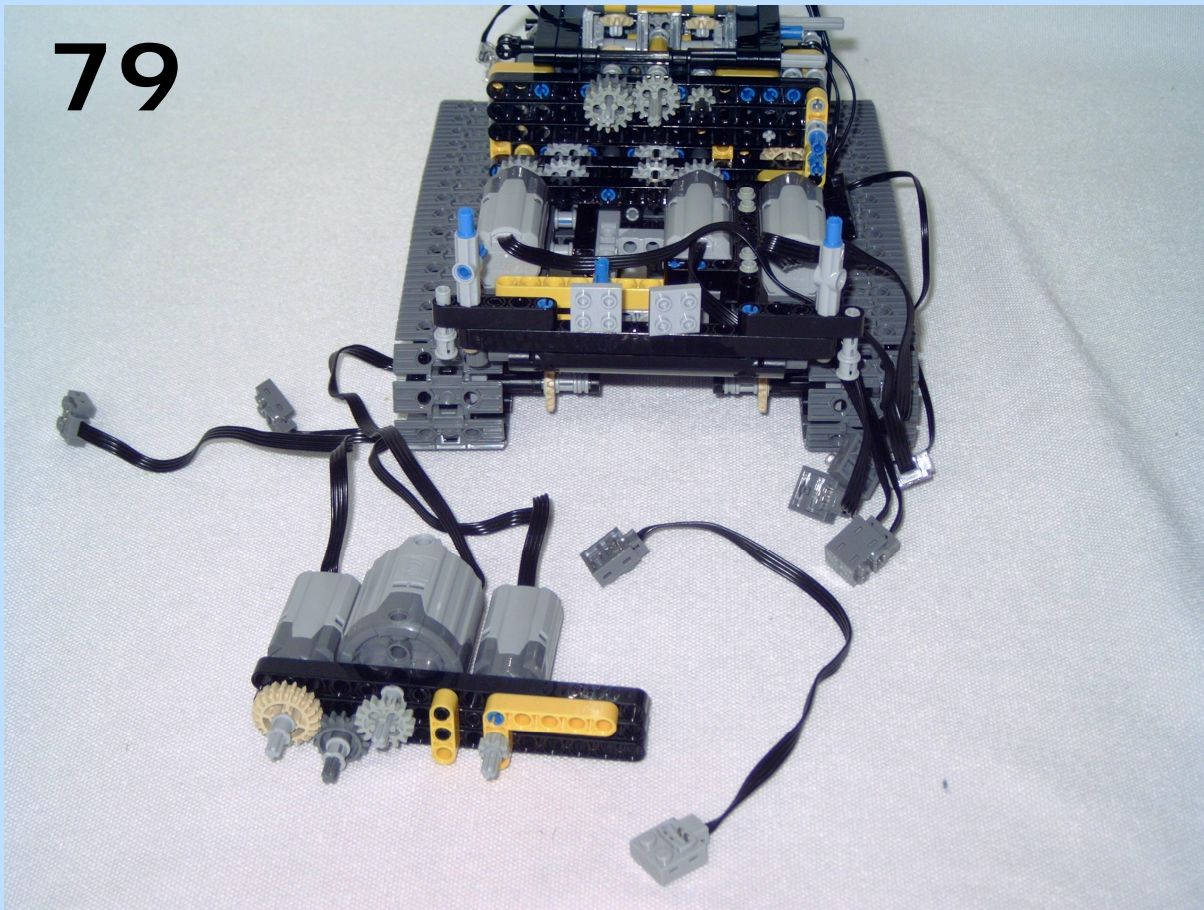
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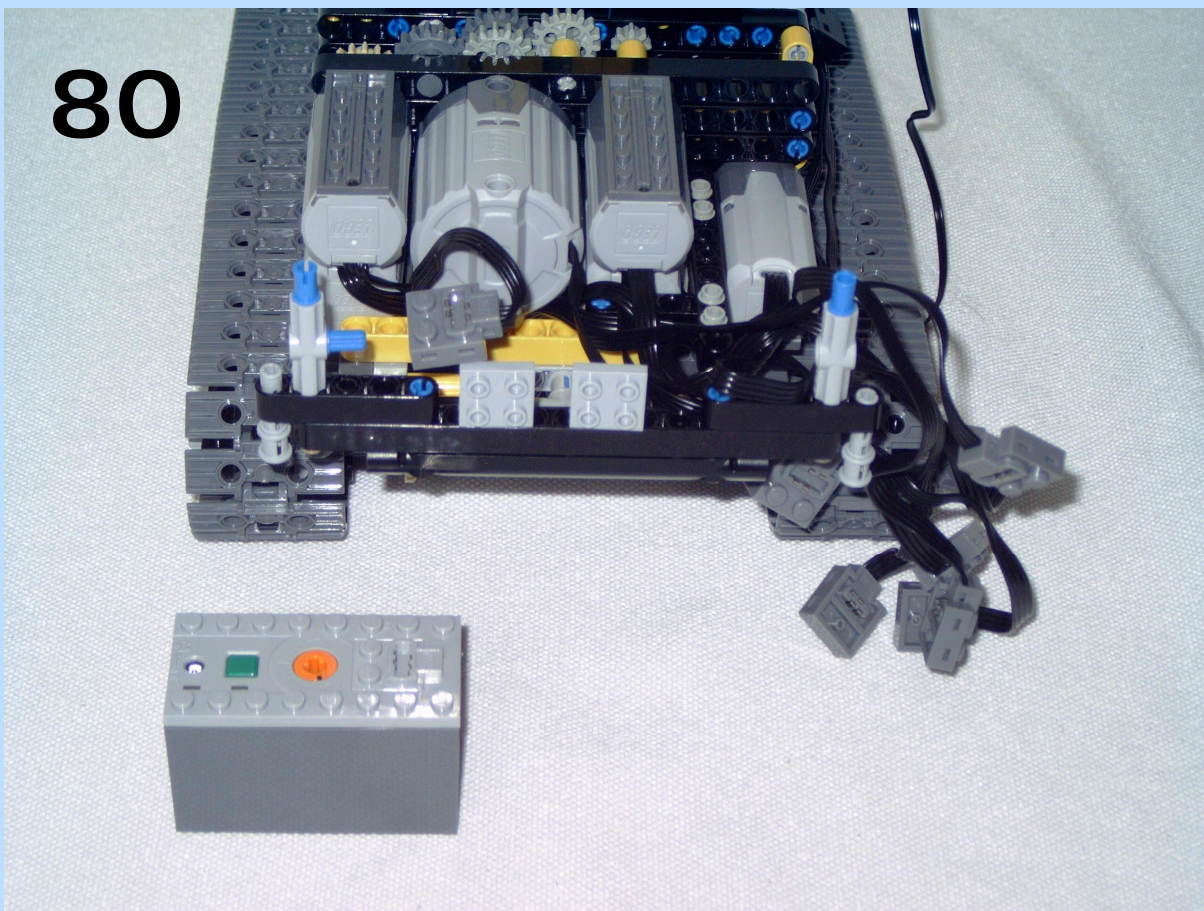
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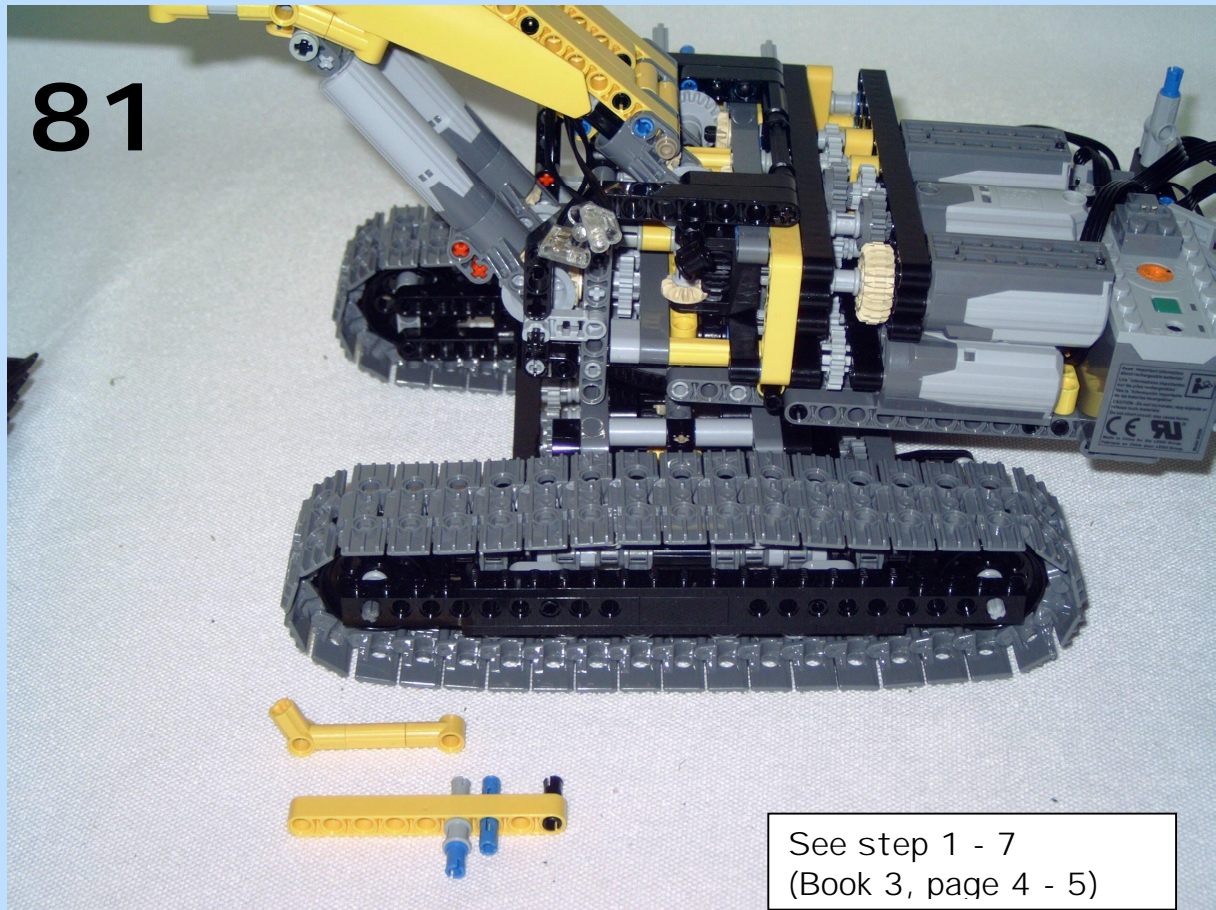
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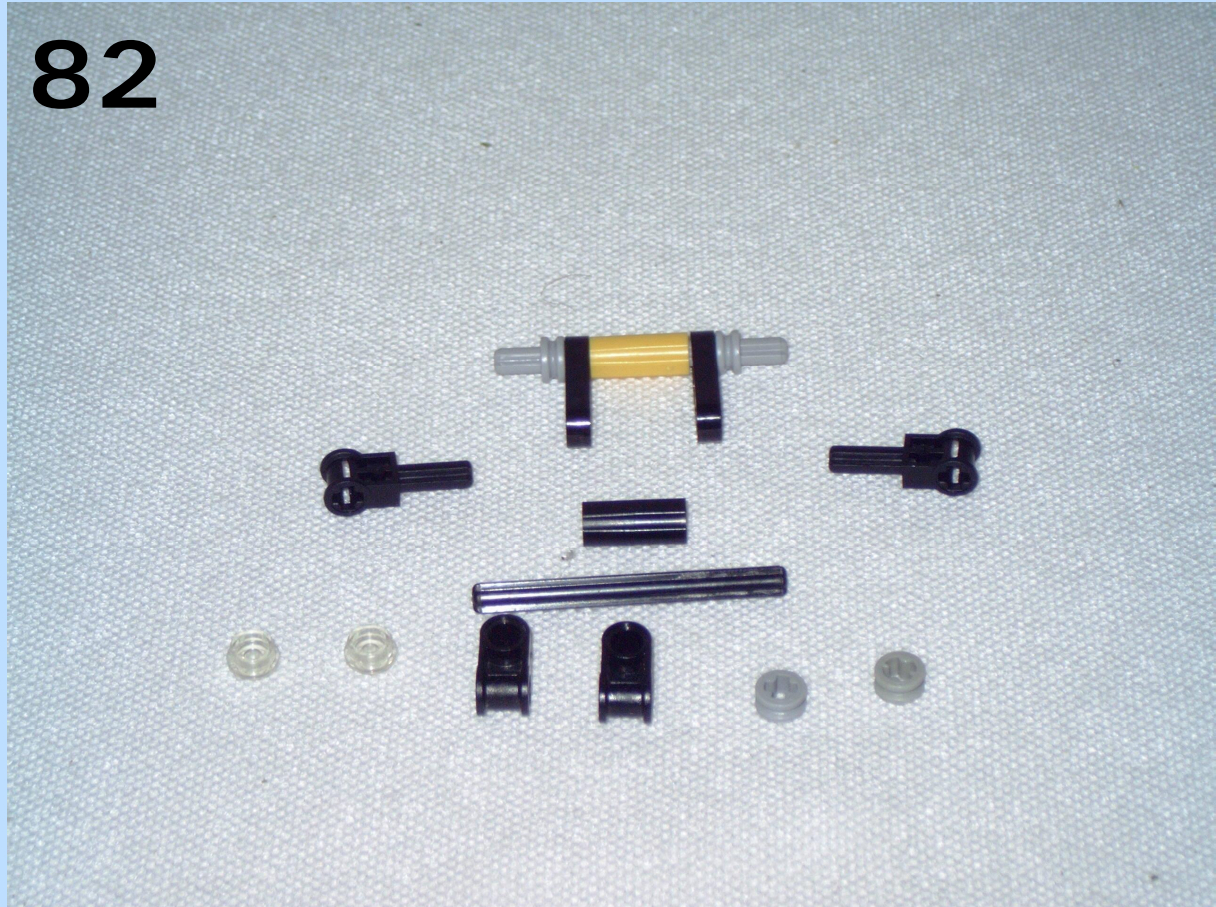


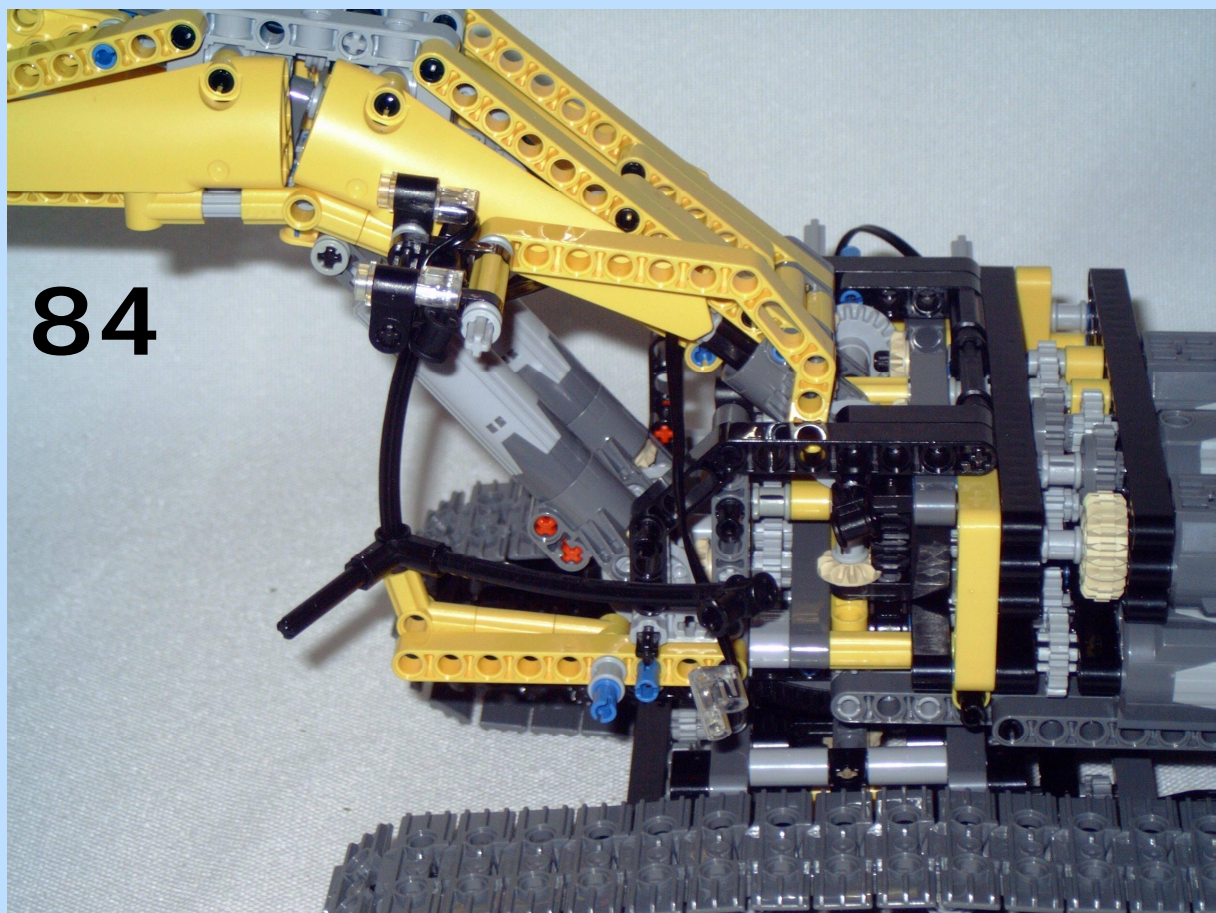
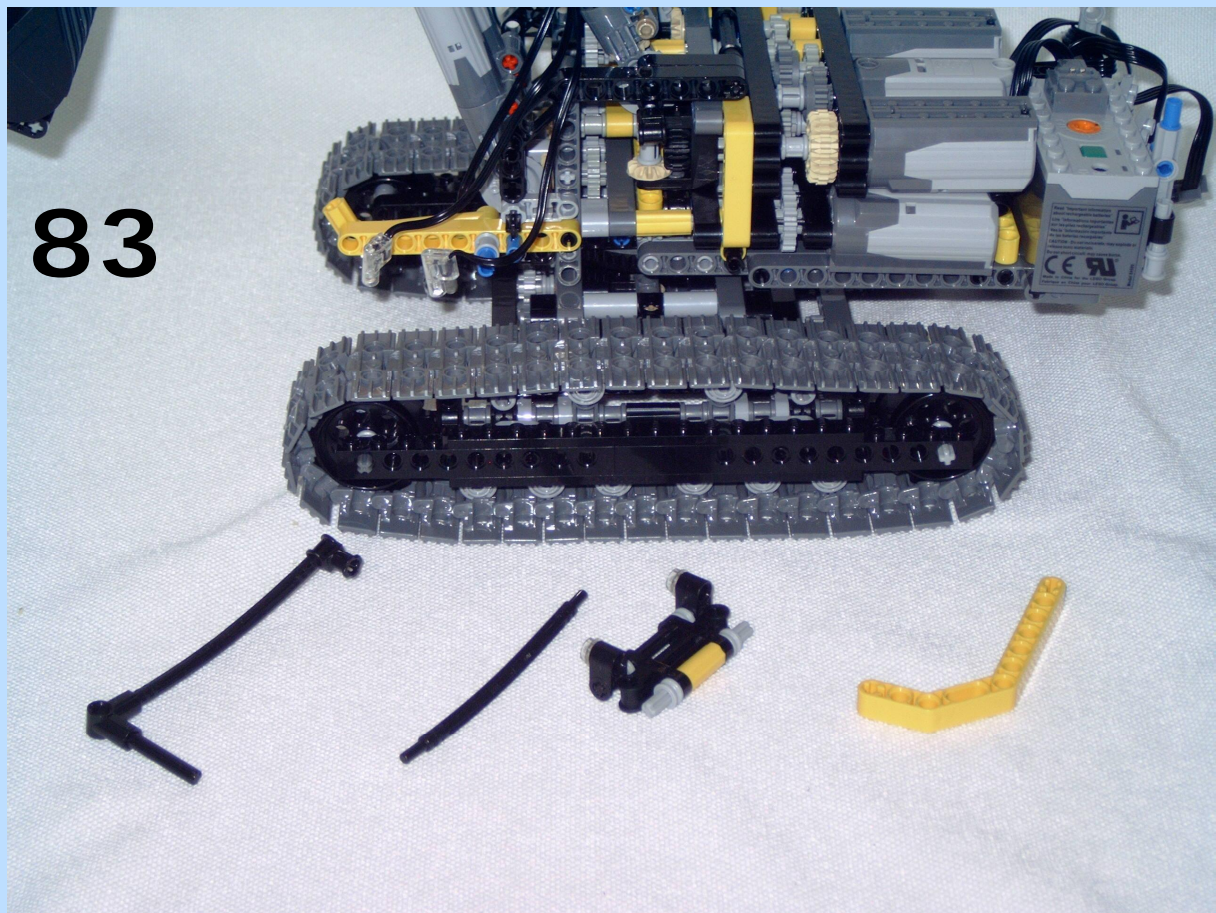
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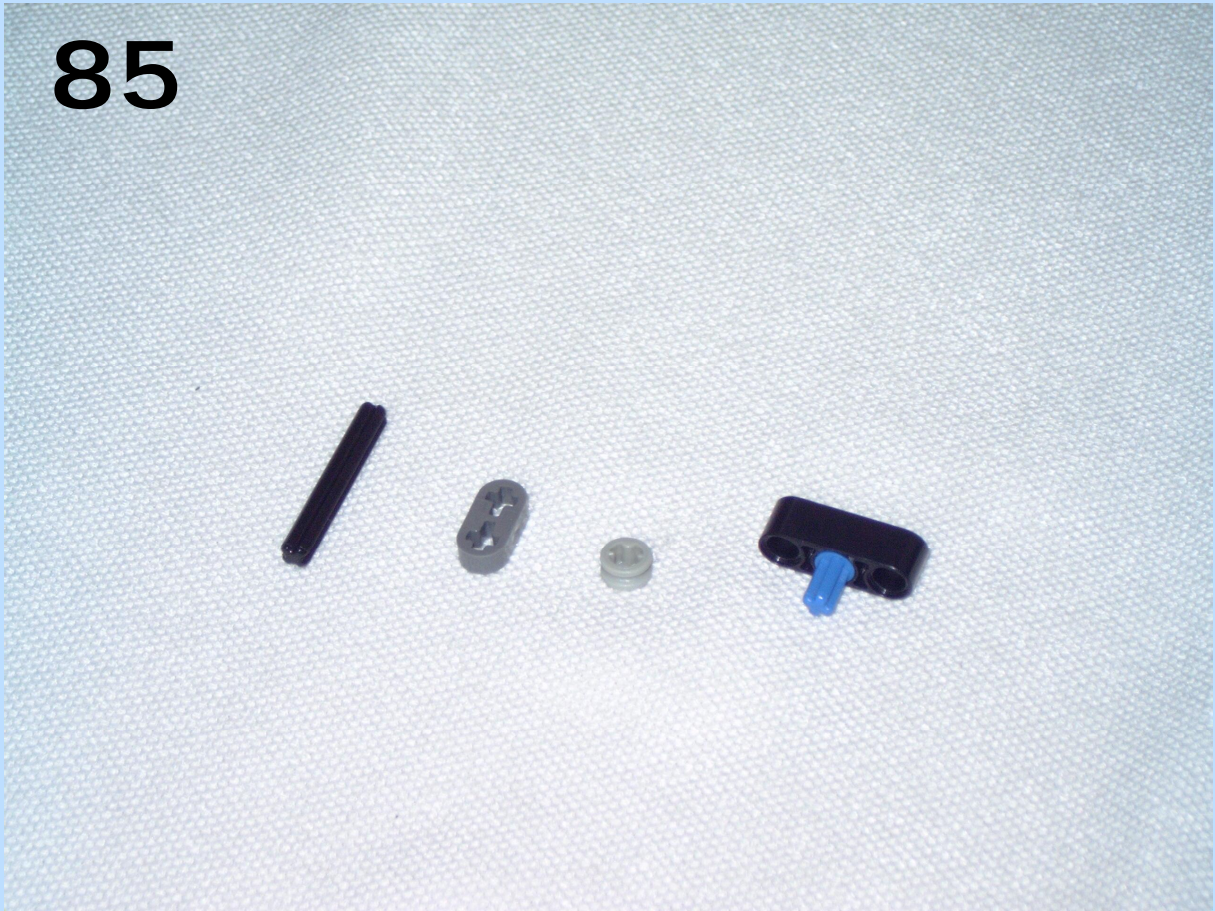
See step 1 - 7
(Book 3, page 4 - 5)

82

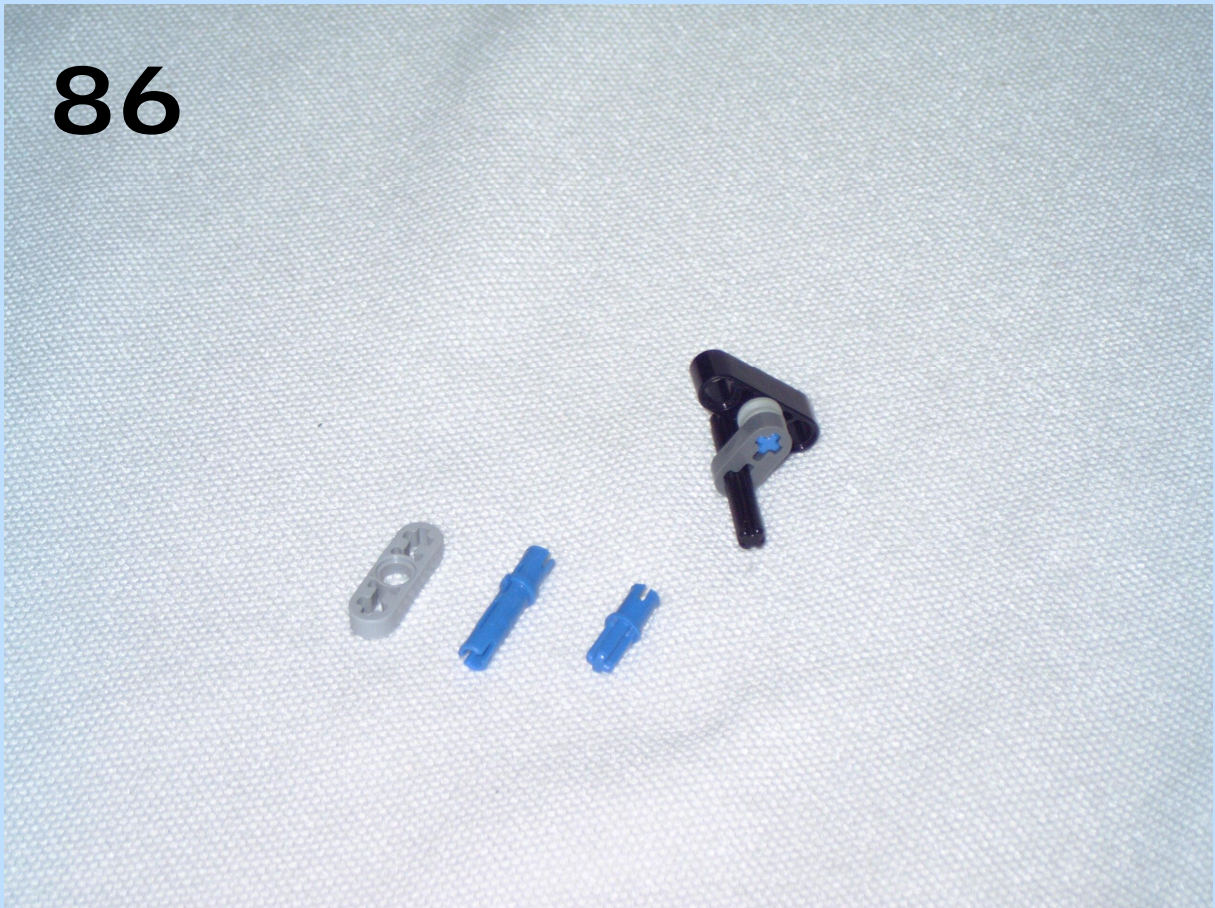




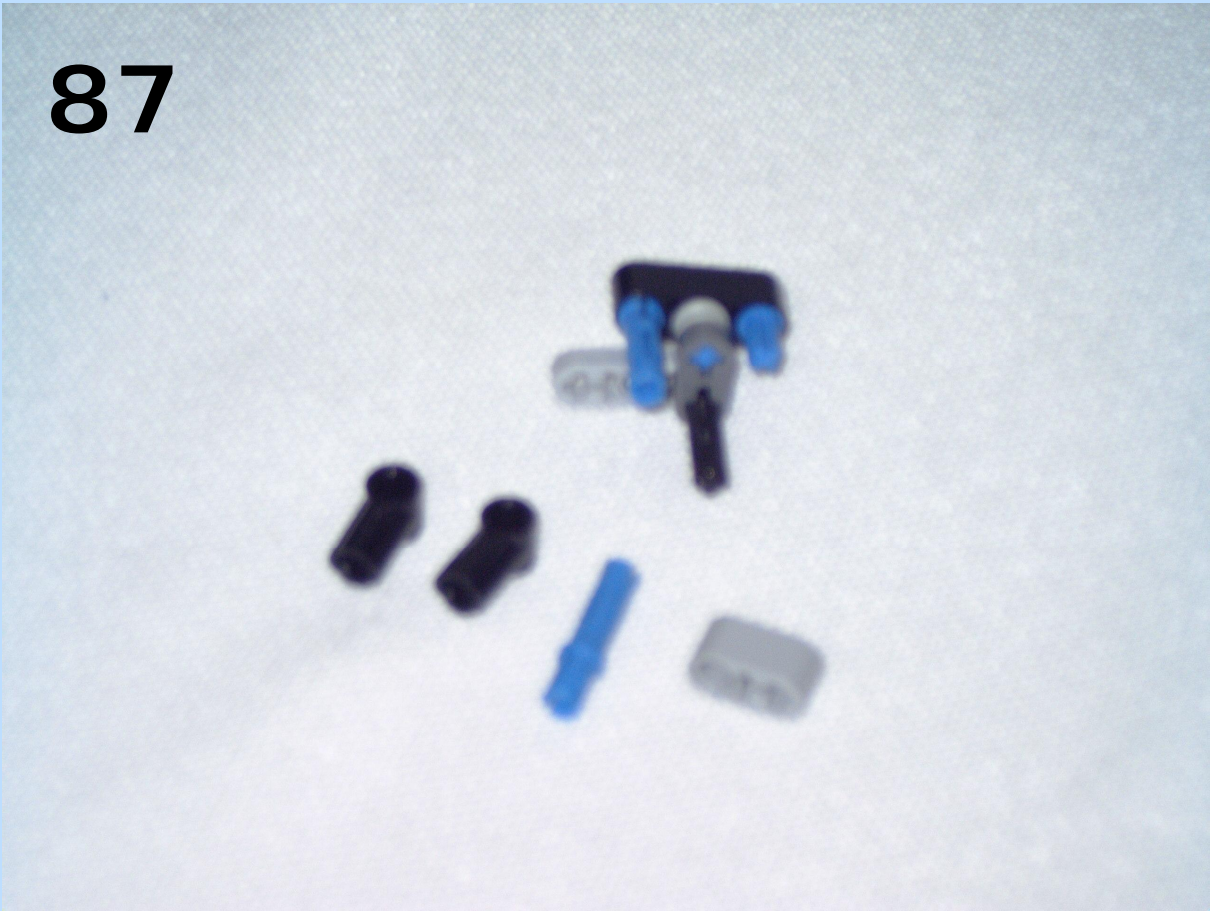
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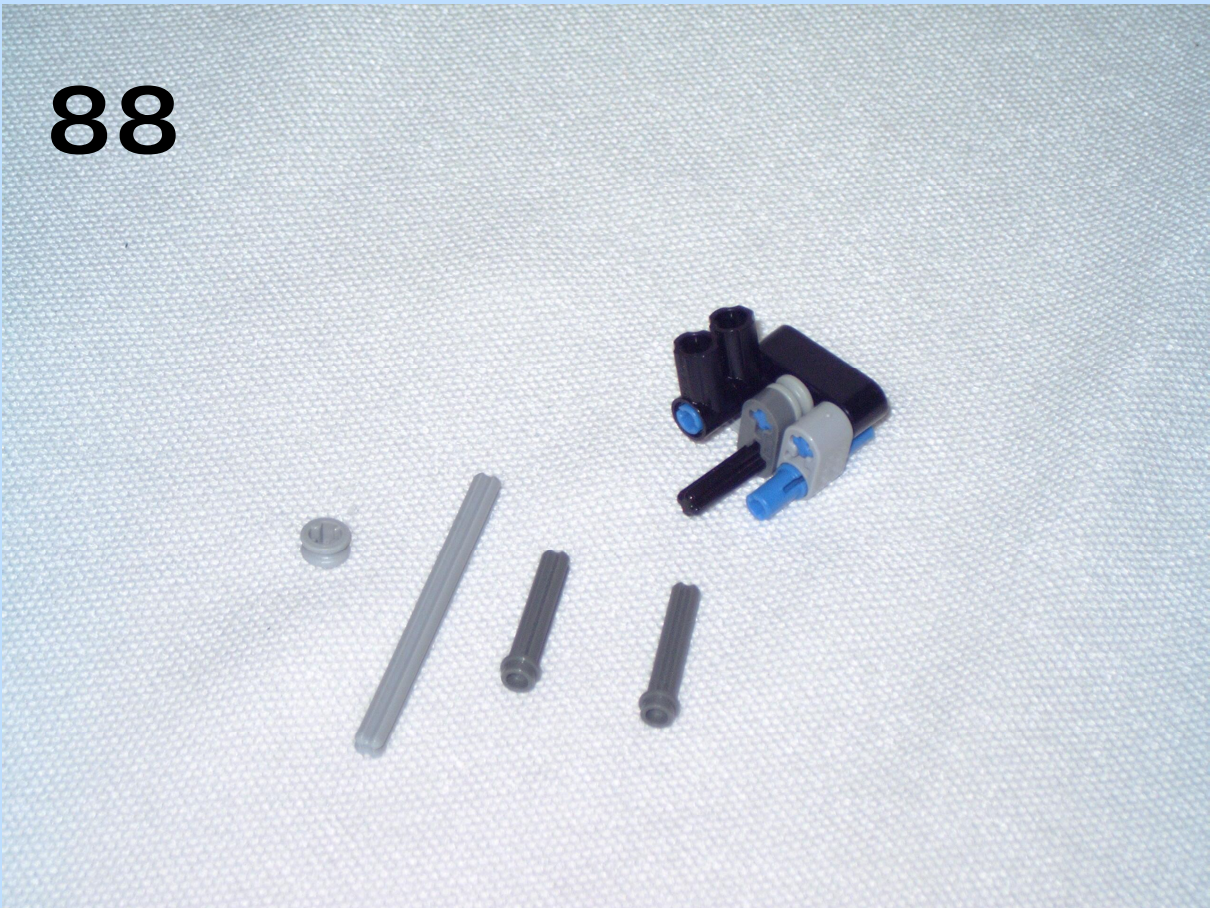
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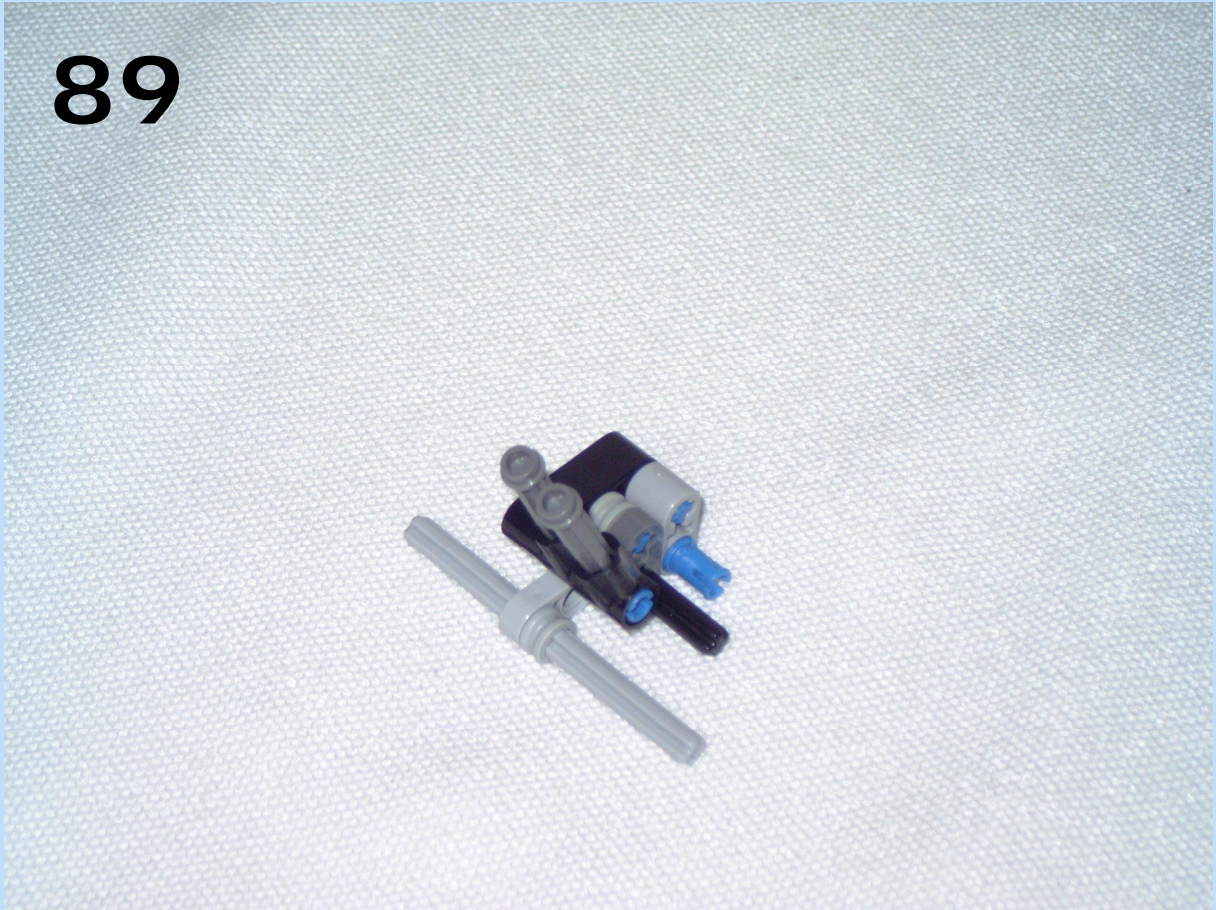
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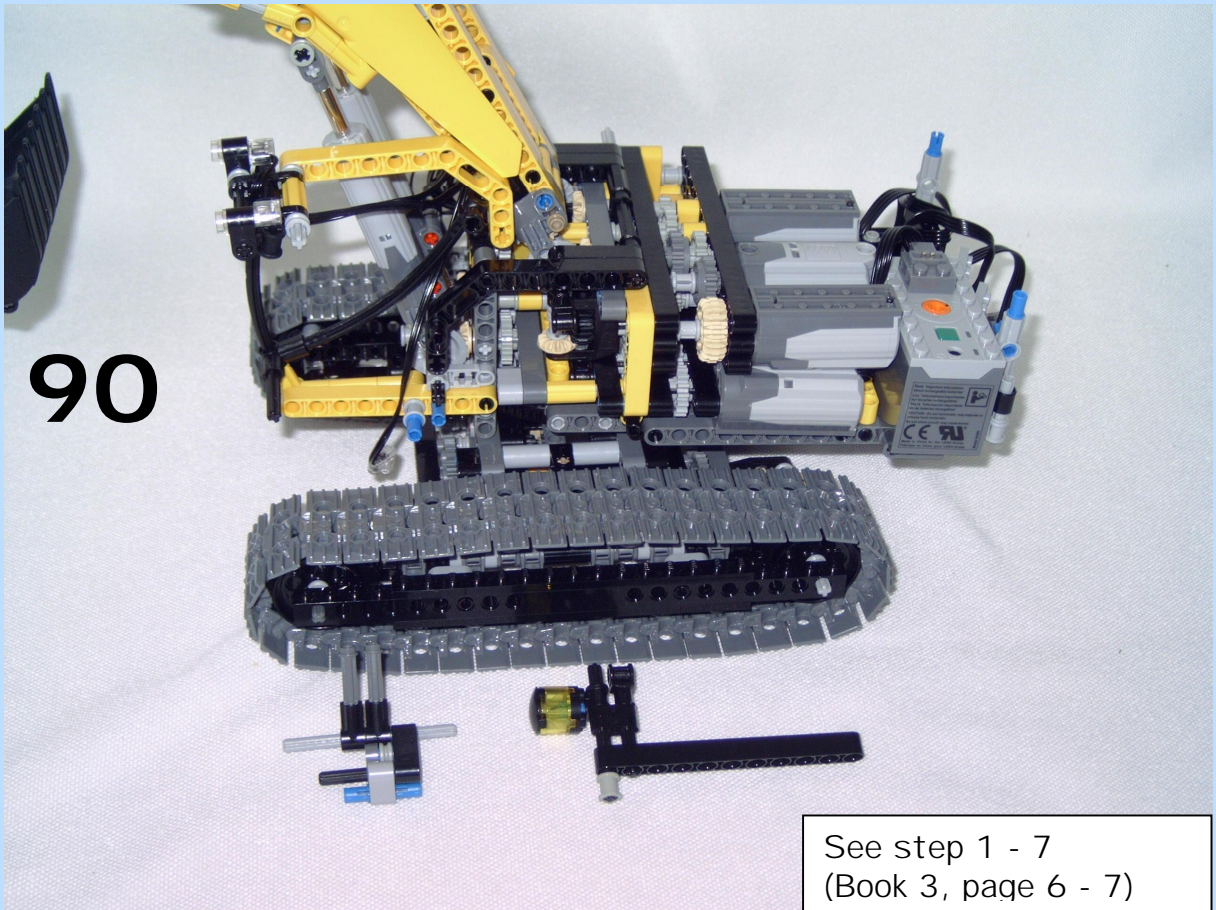
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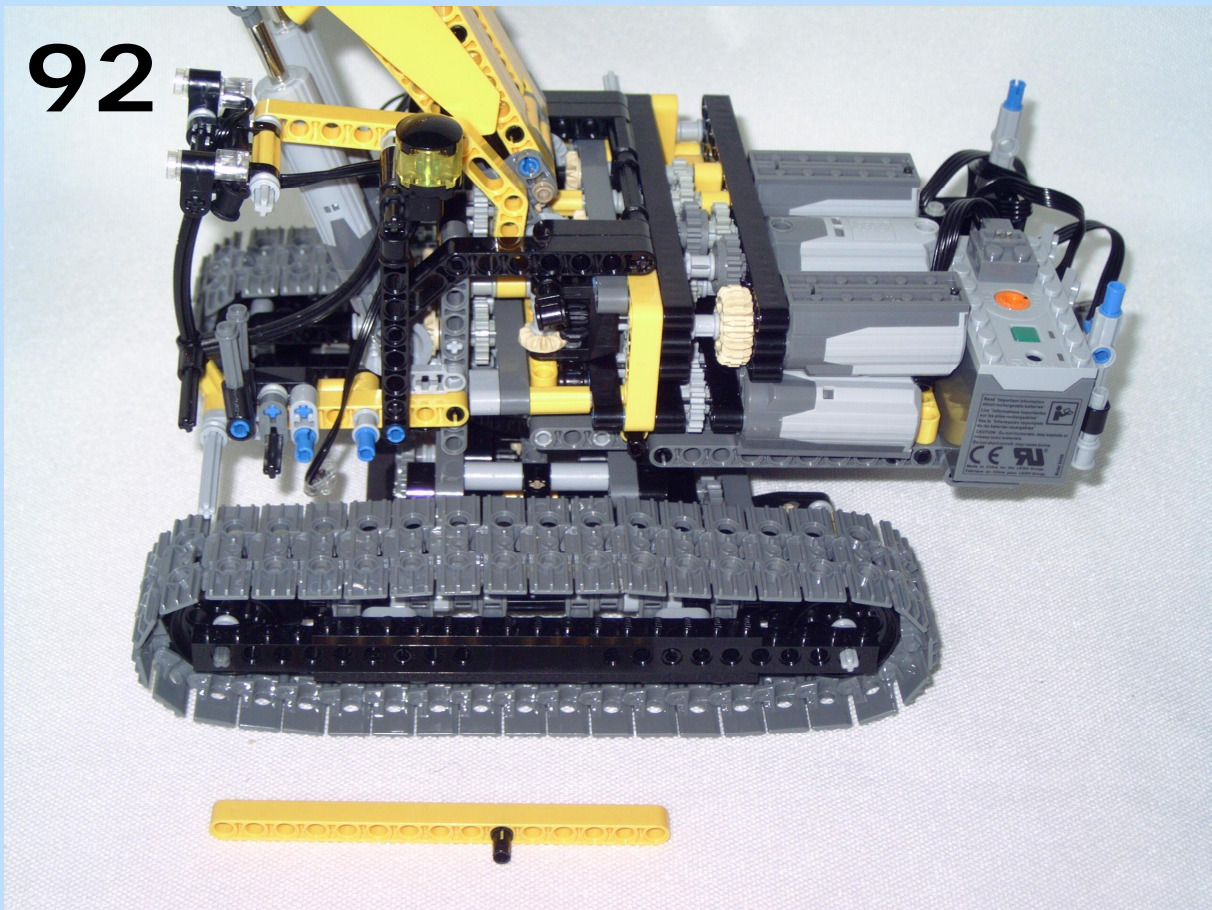
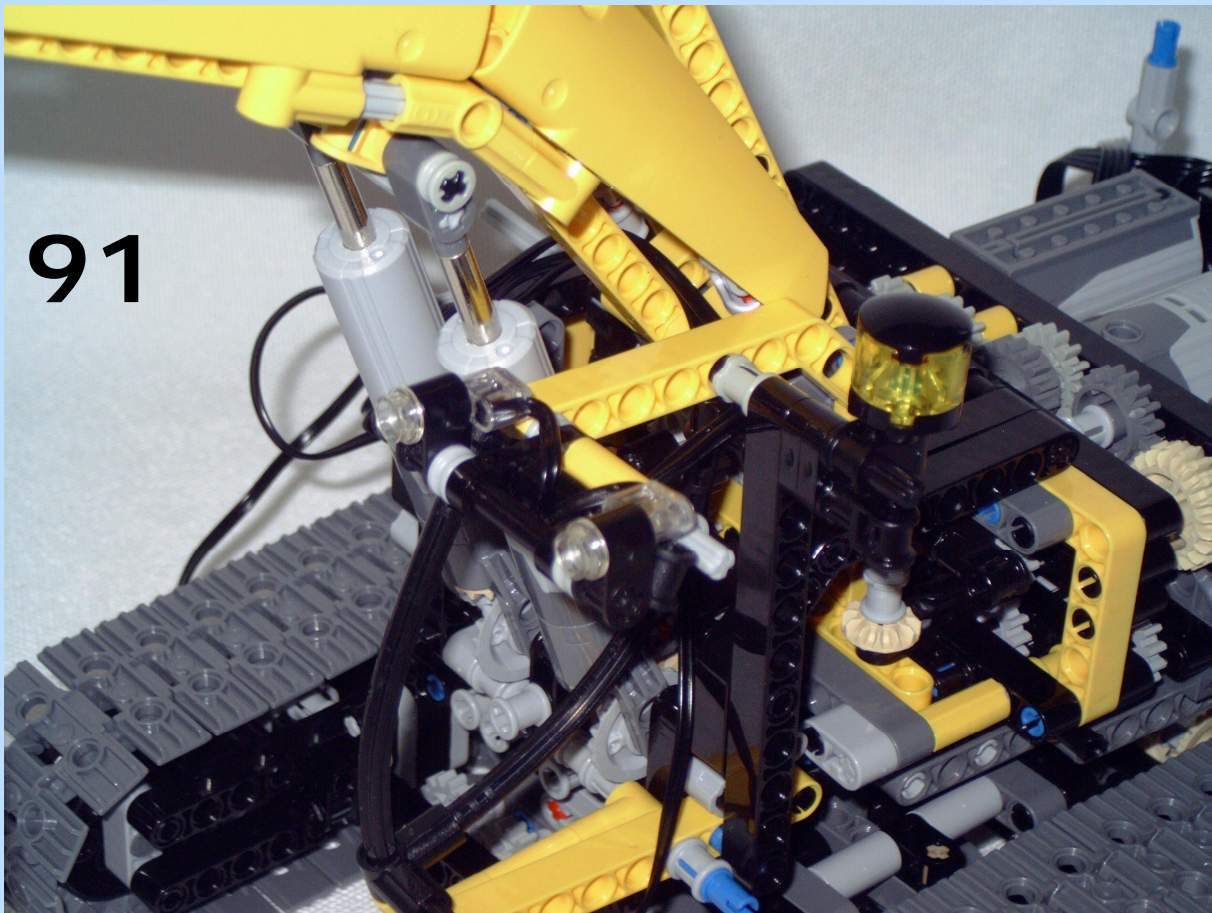
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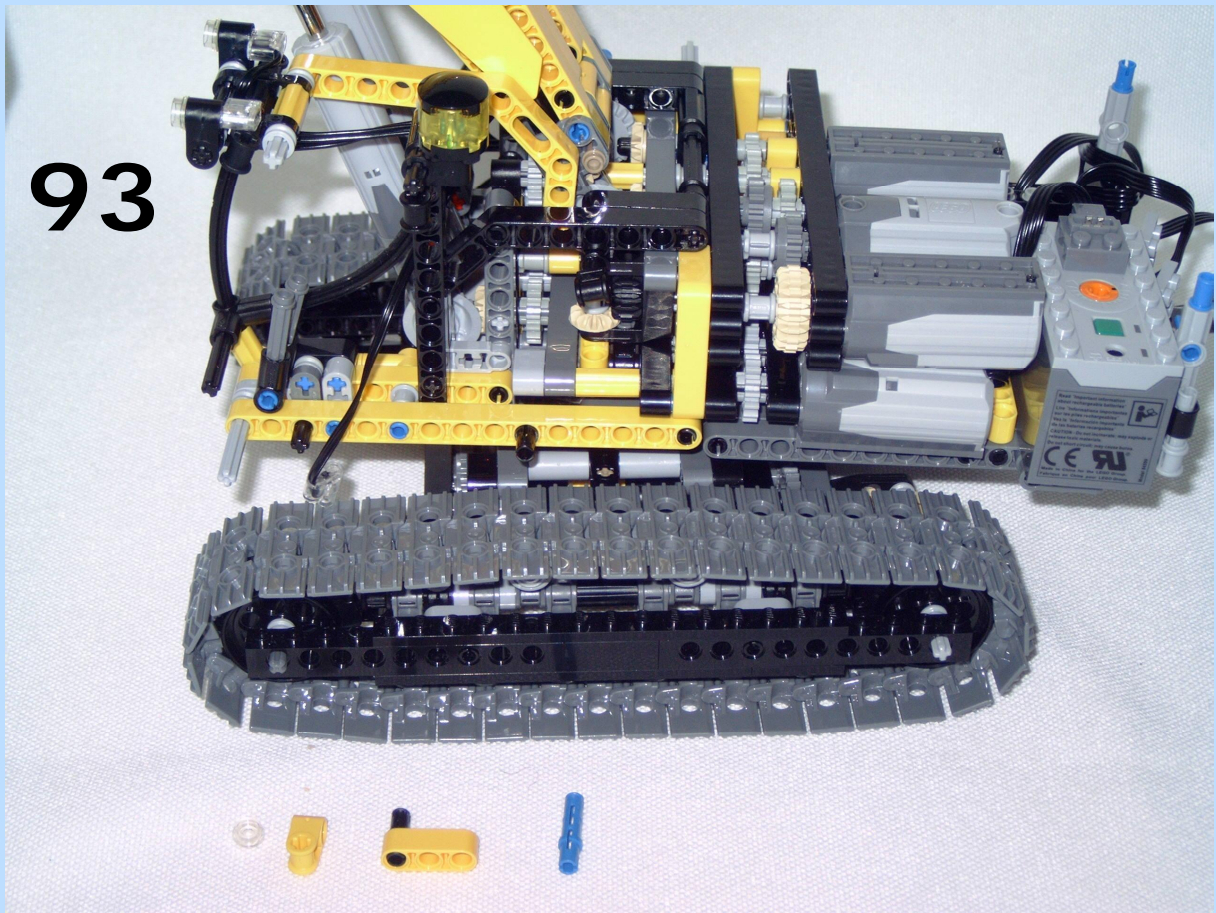
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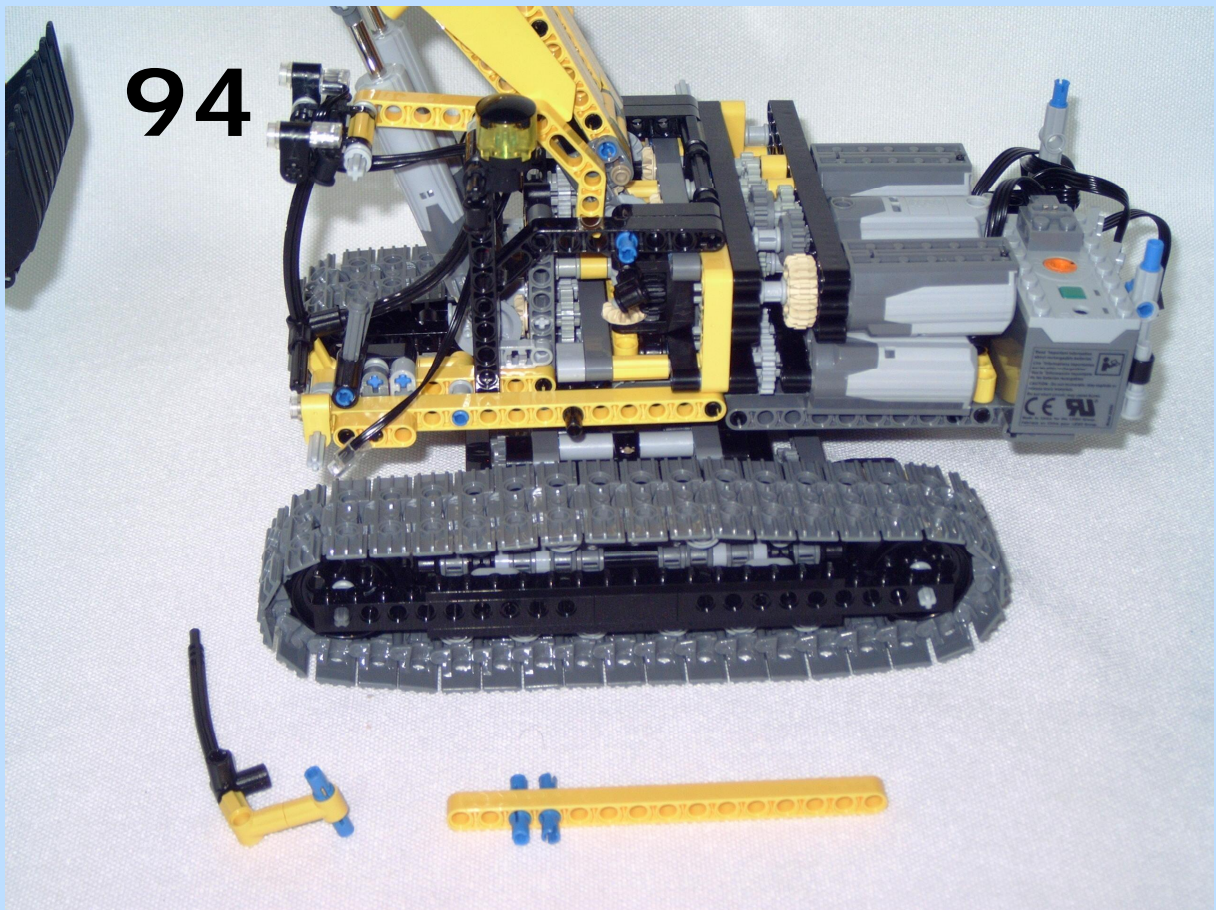
See step 1 - 7
(Book 3, page 6 - 7)



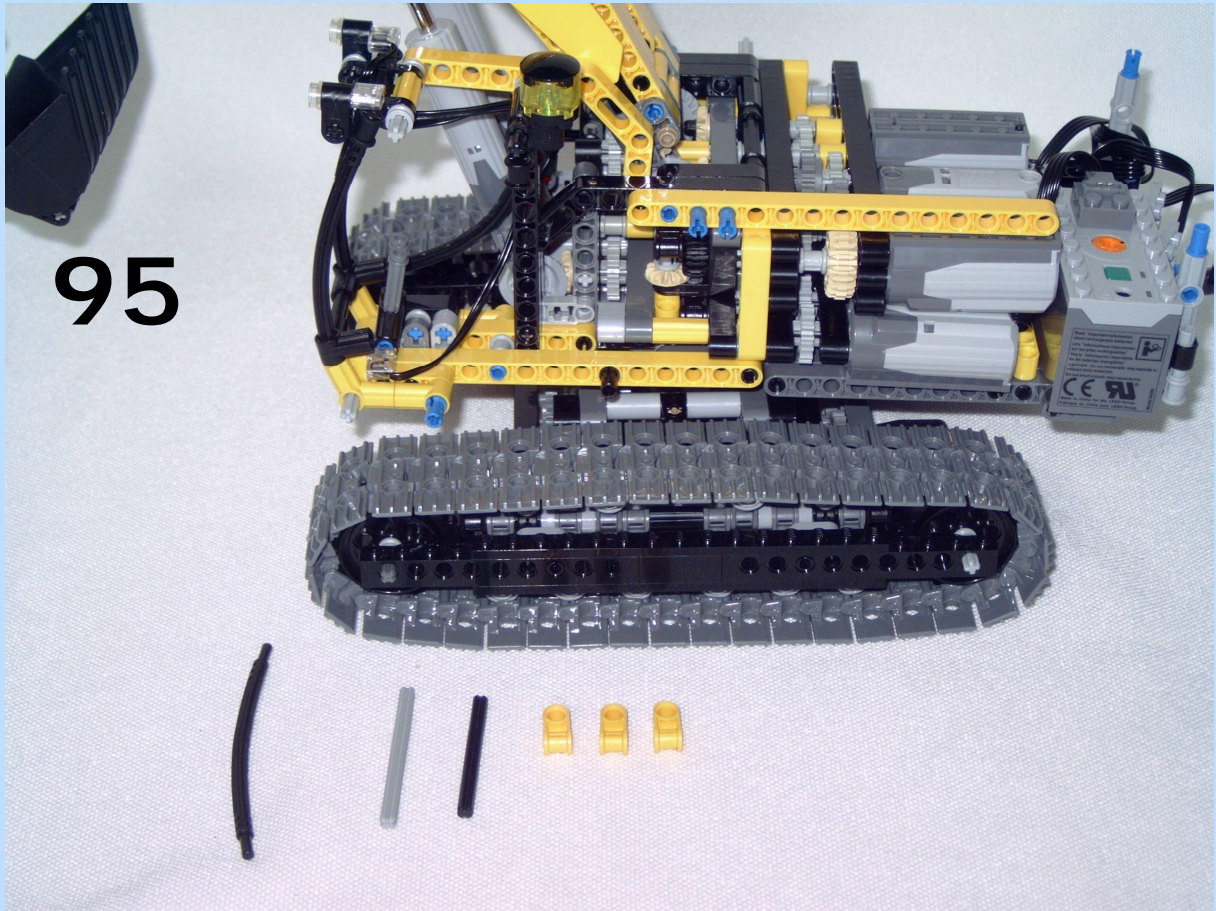
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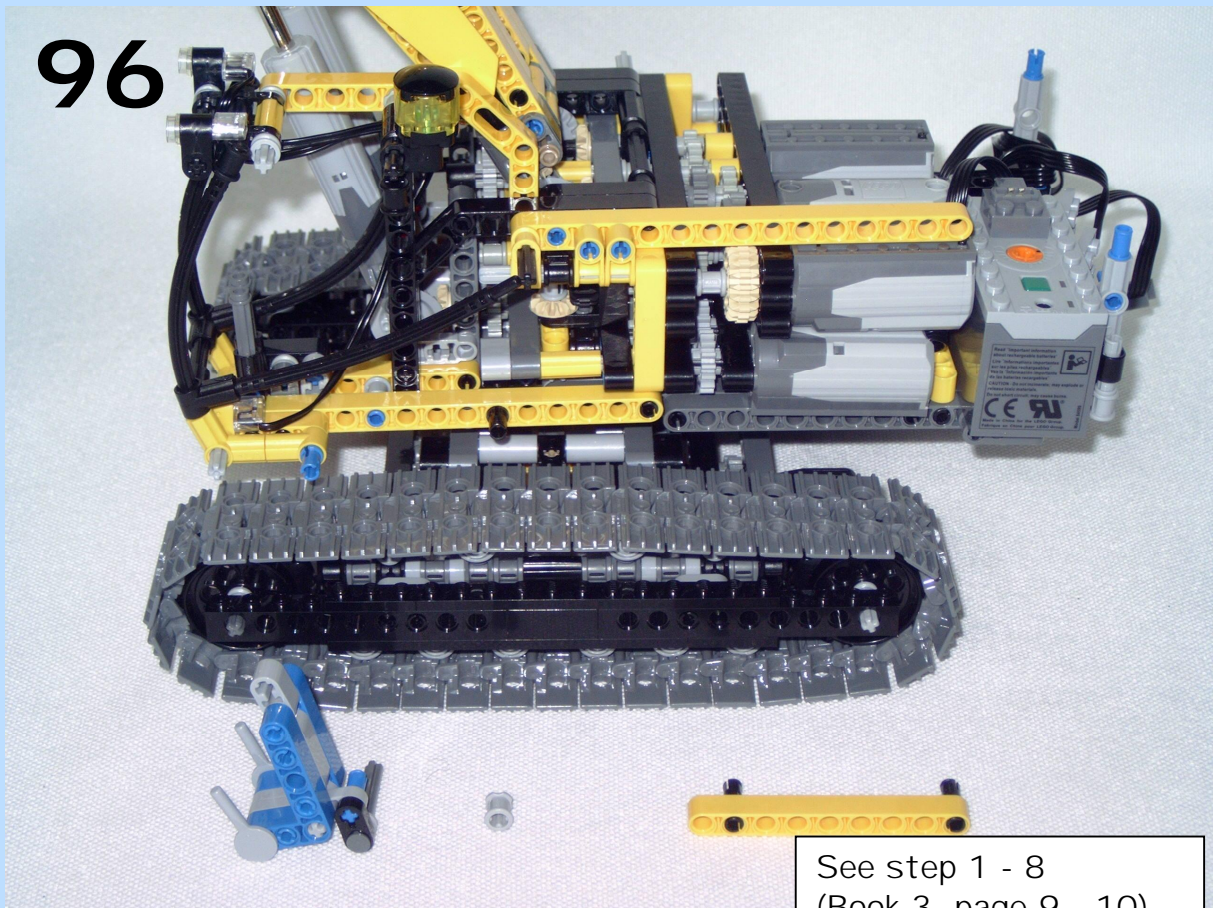
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95

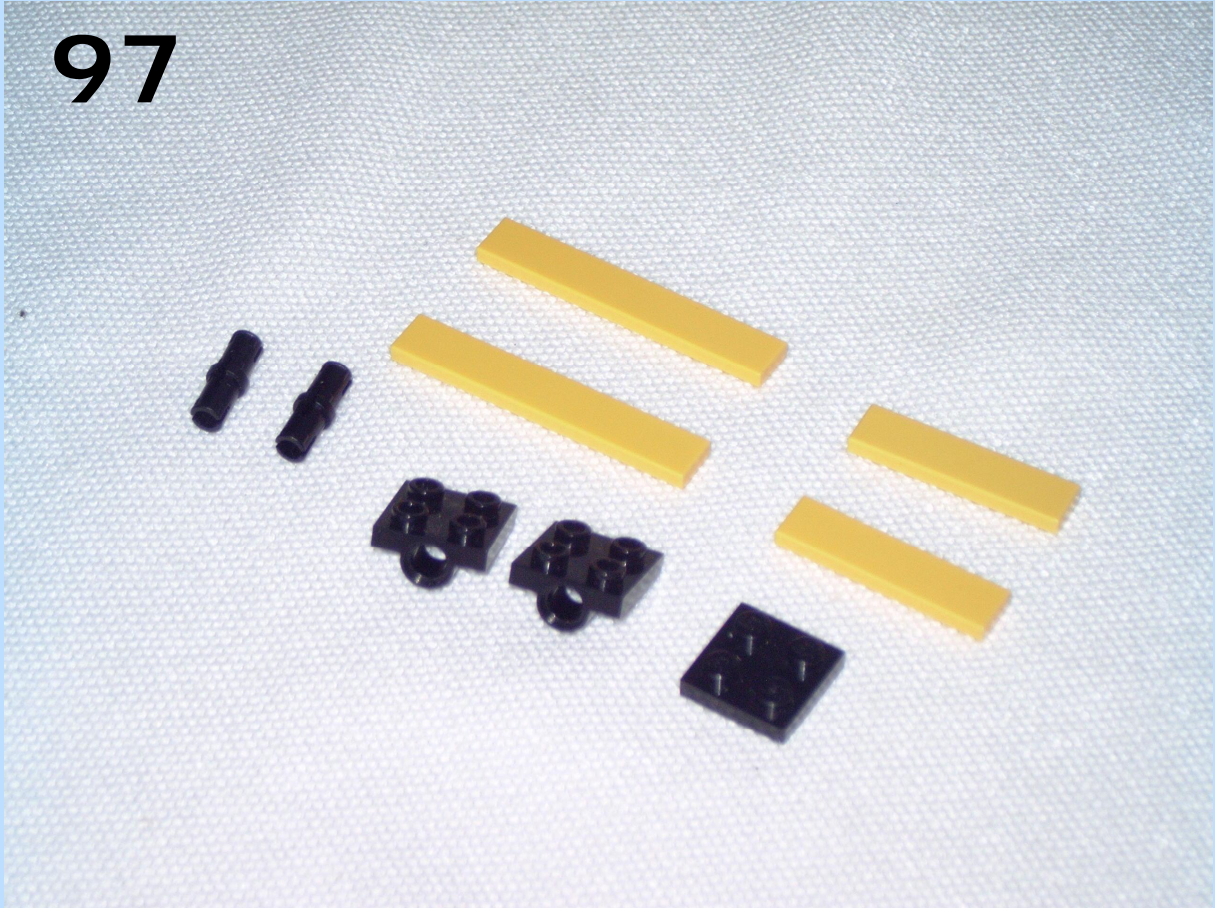


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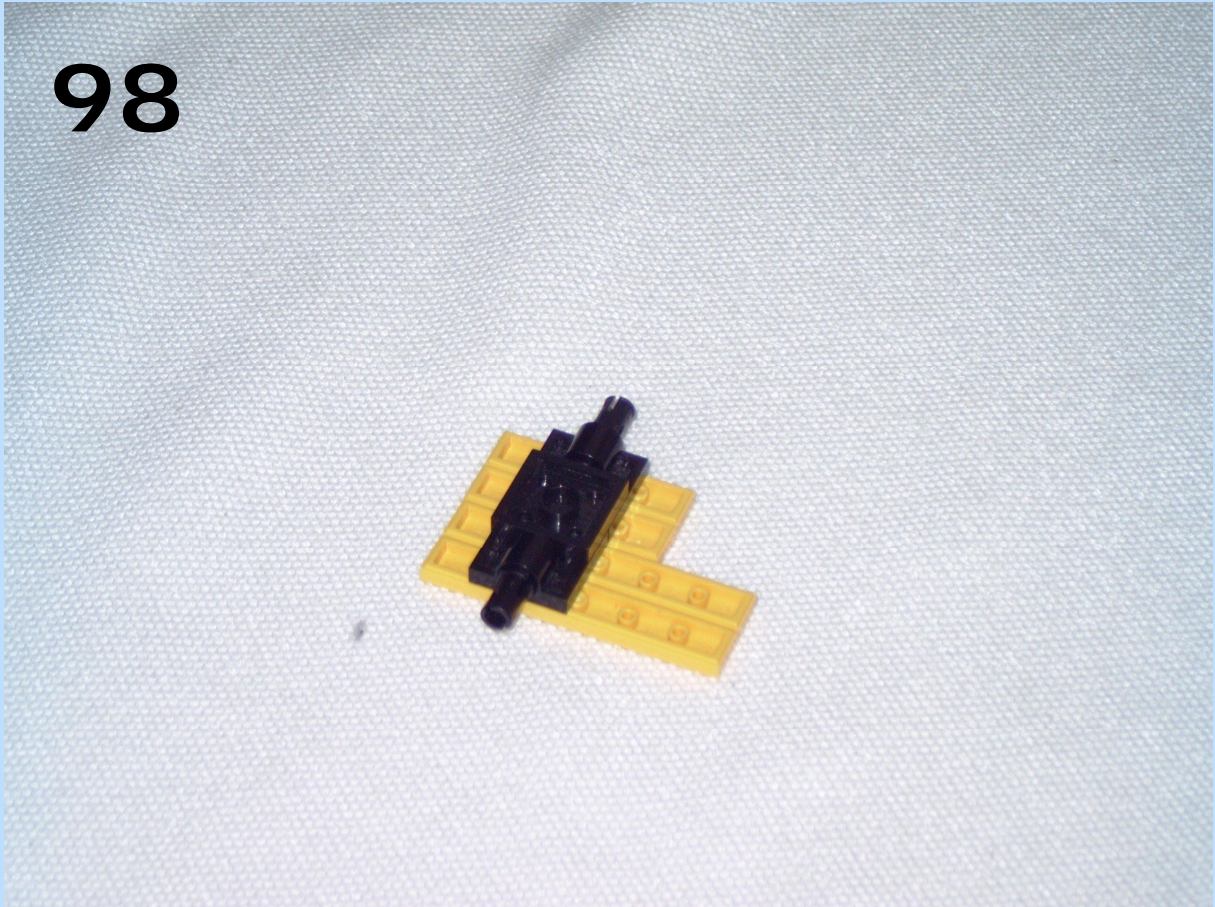


See step 1 - 8
(Book 3, page 9 - 10)

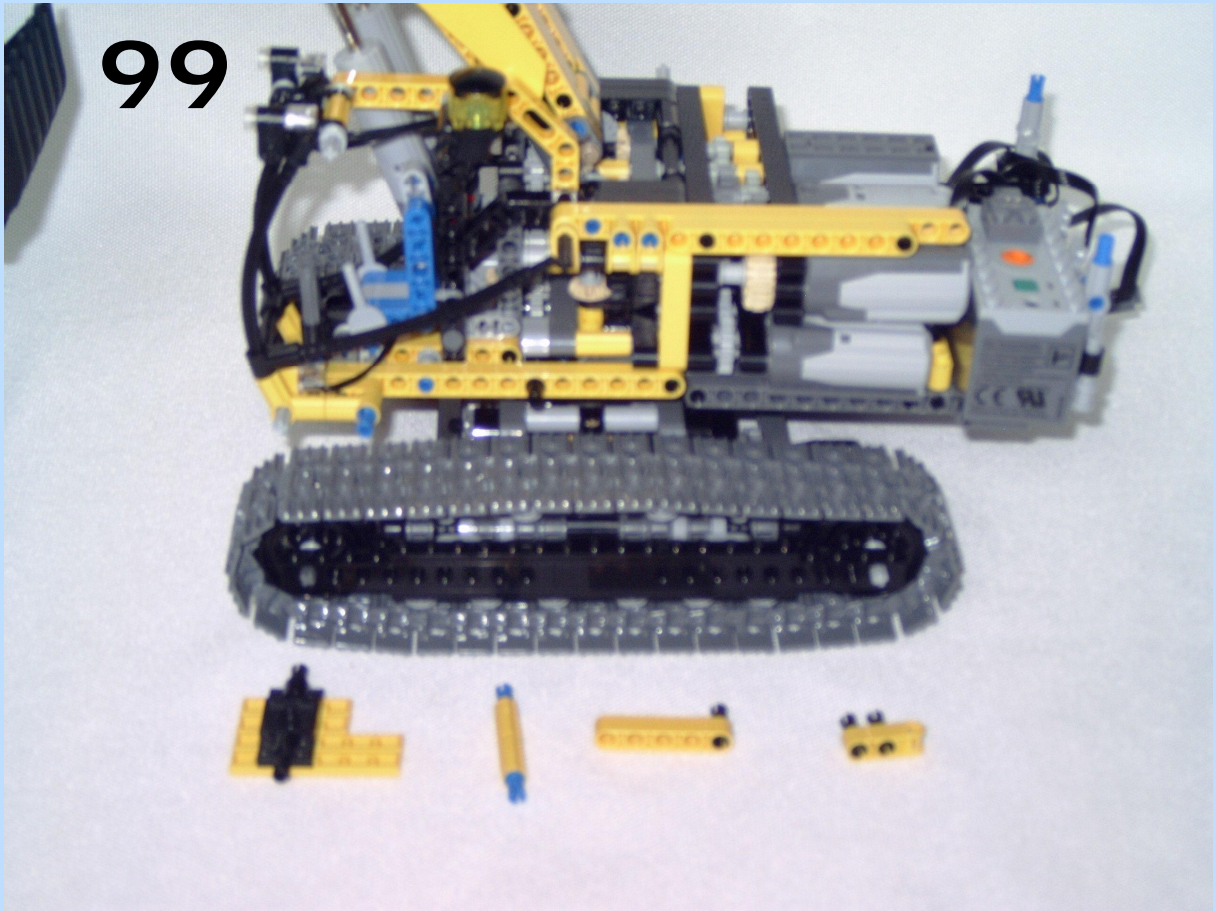
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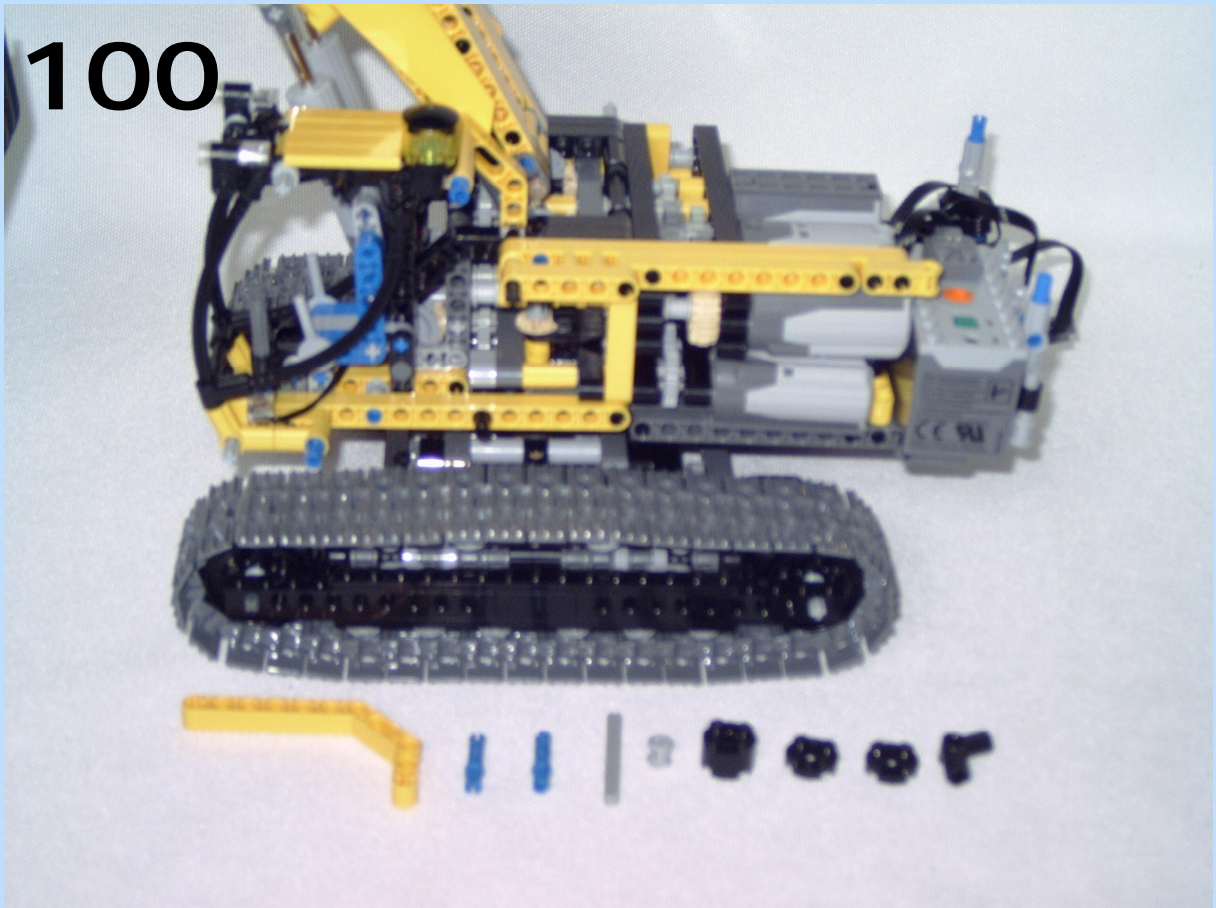
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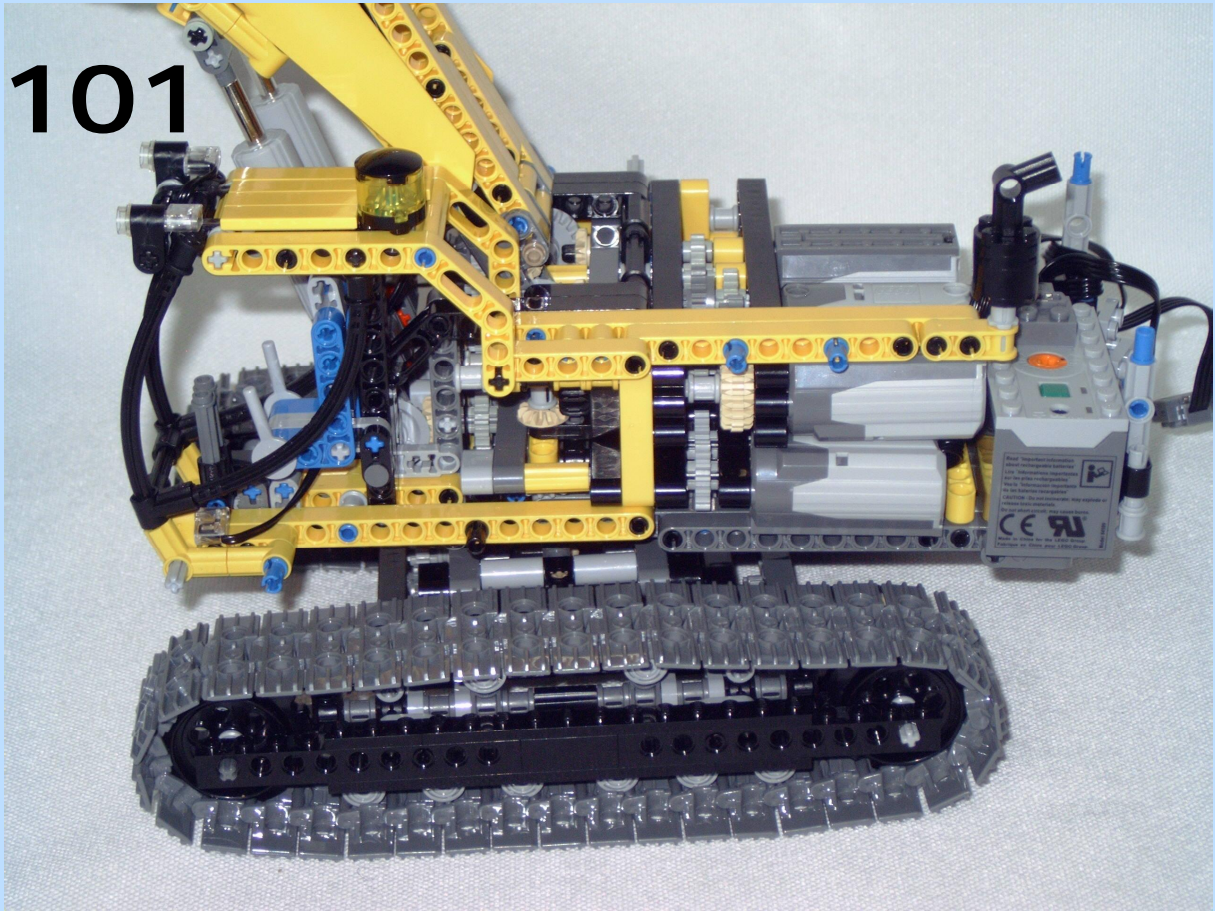
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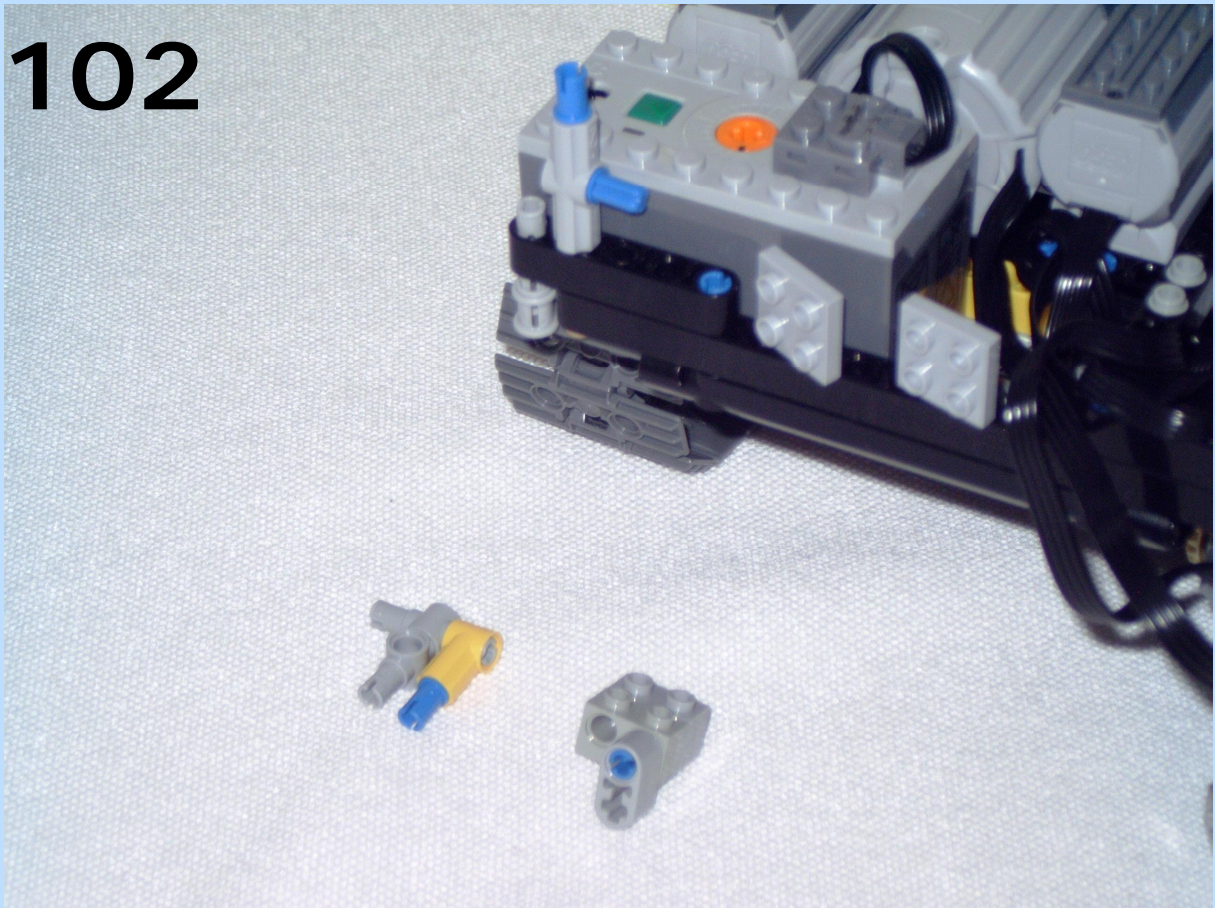
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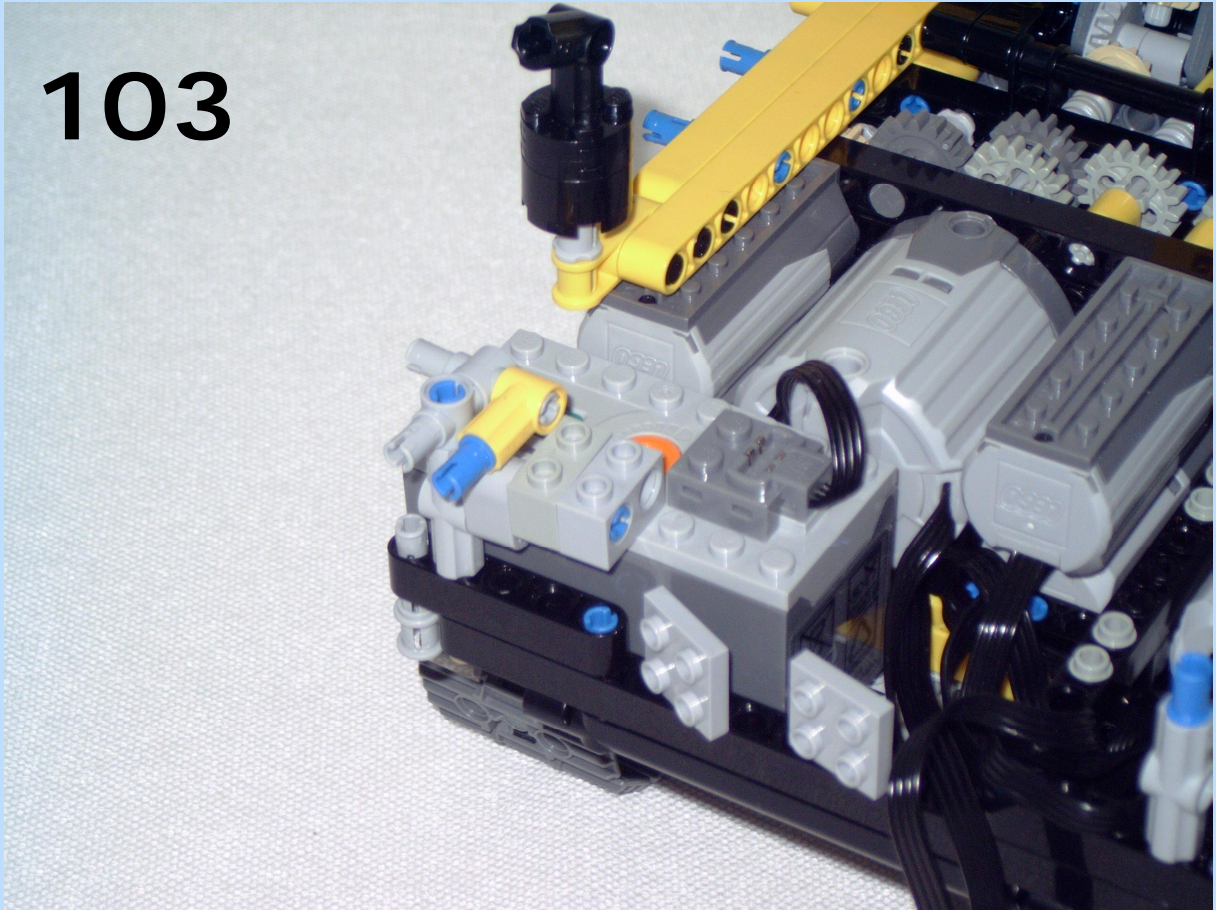
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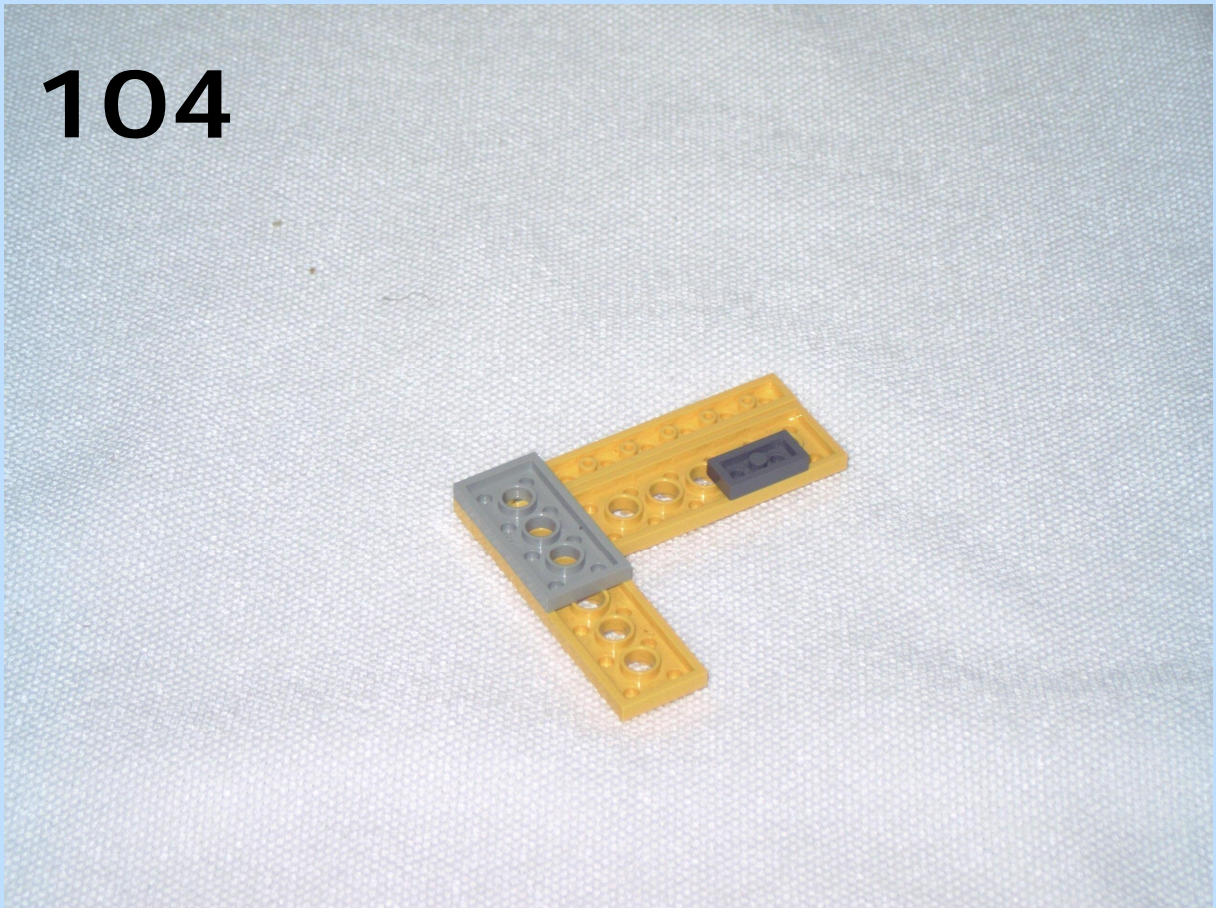
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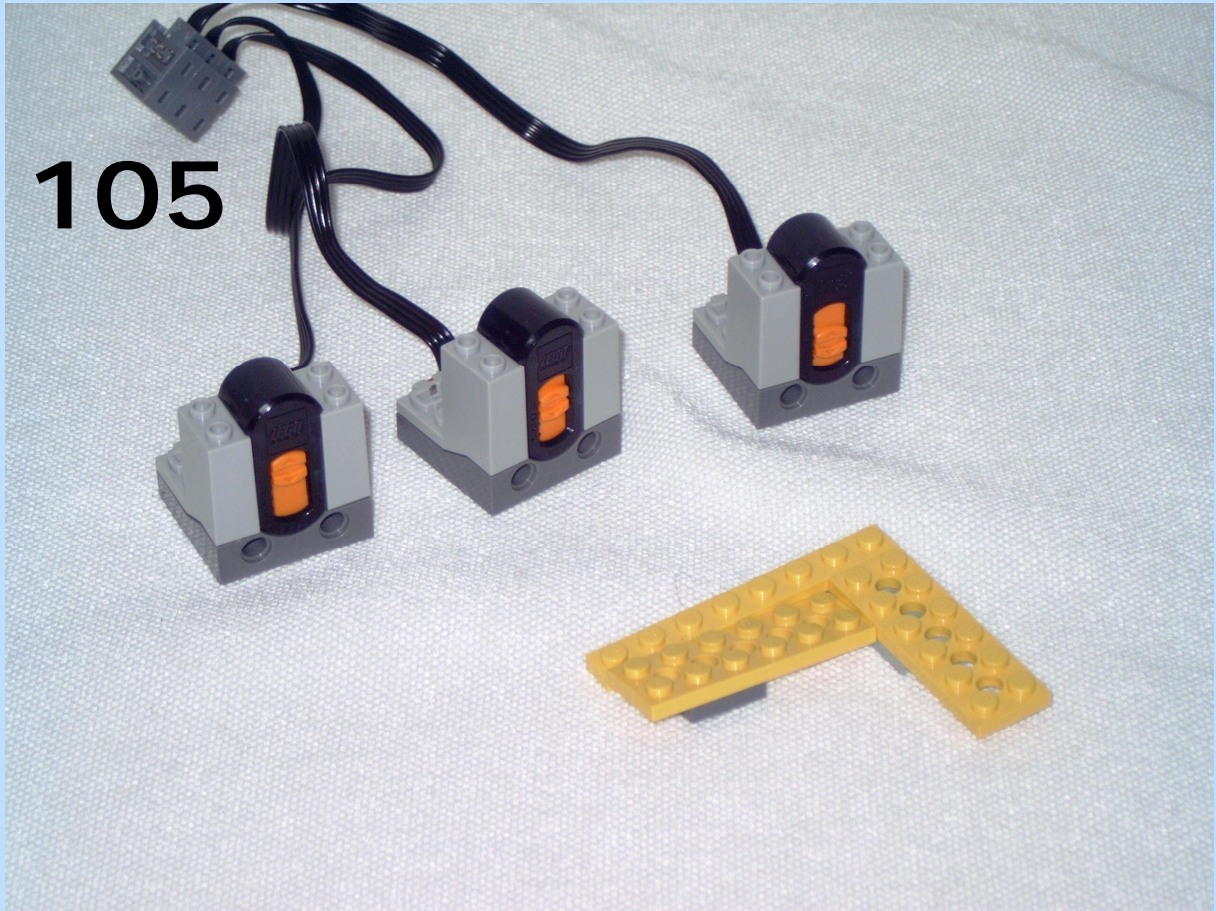
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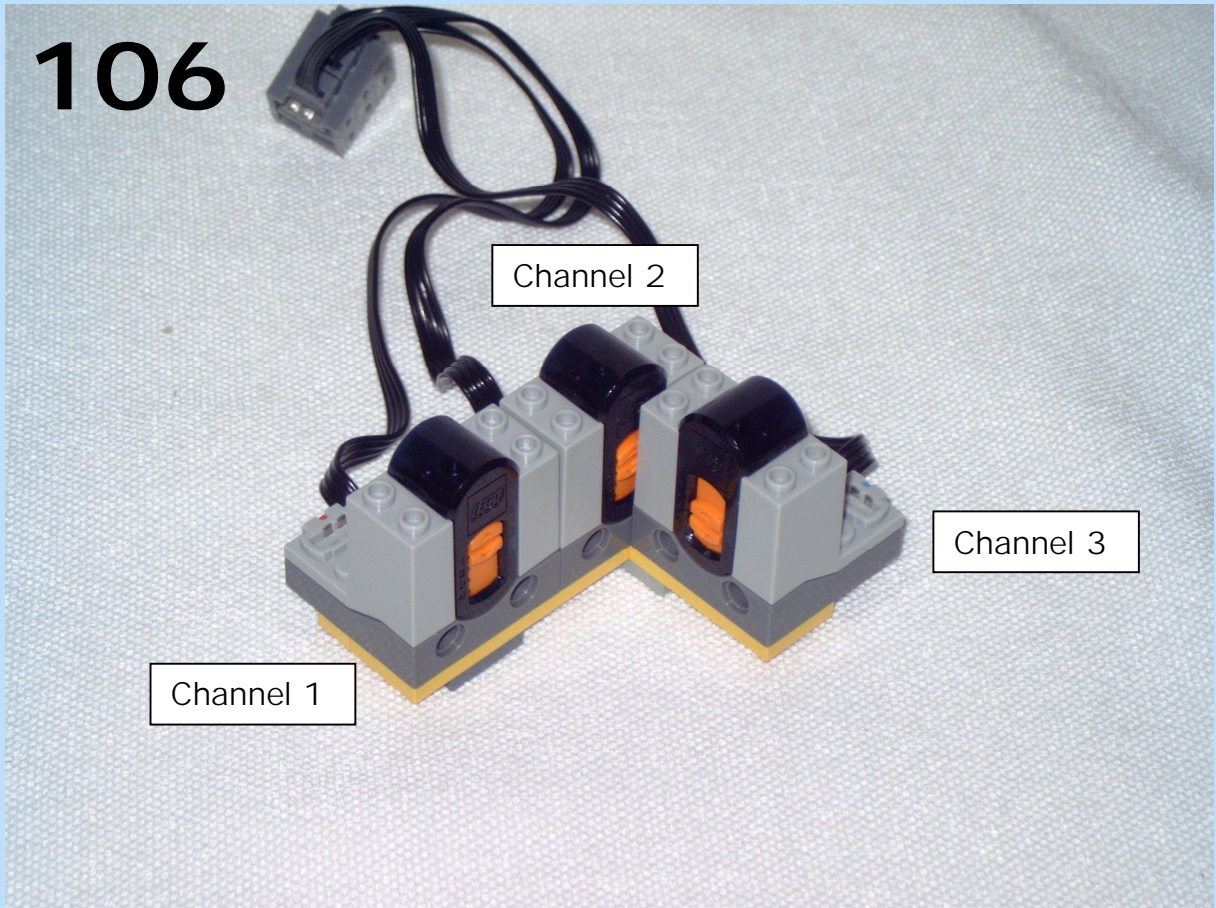
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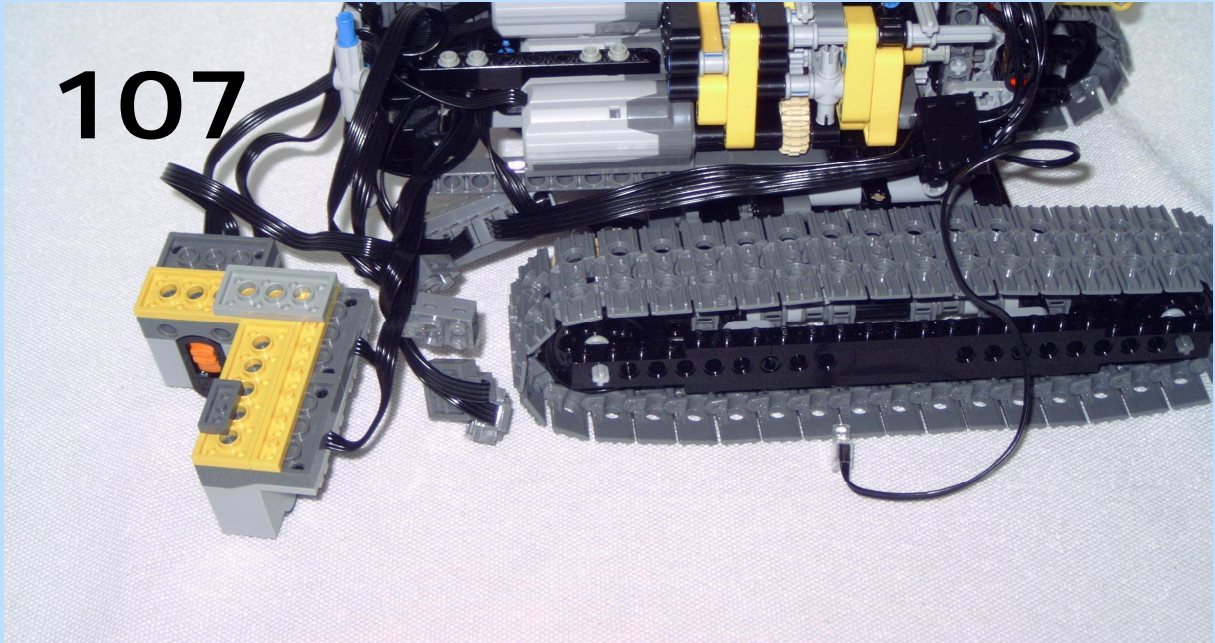
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106



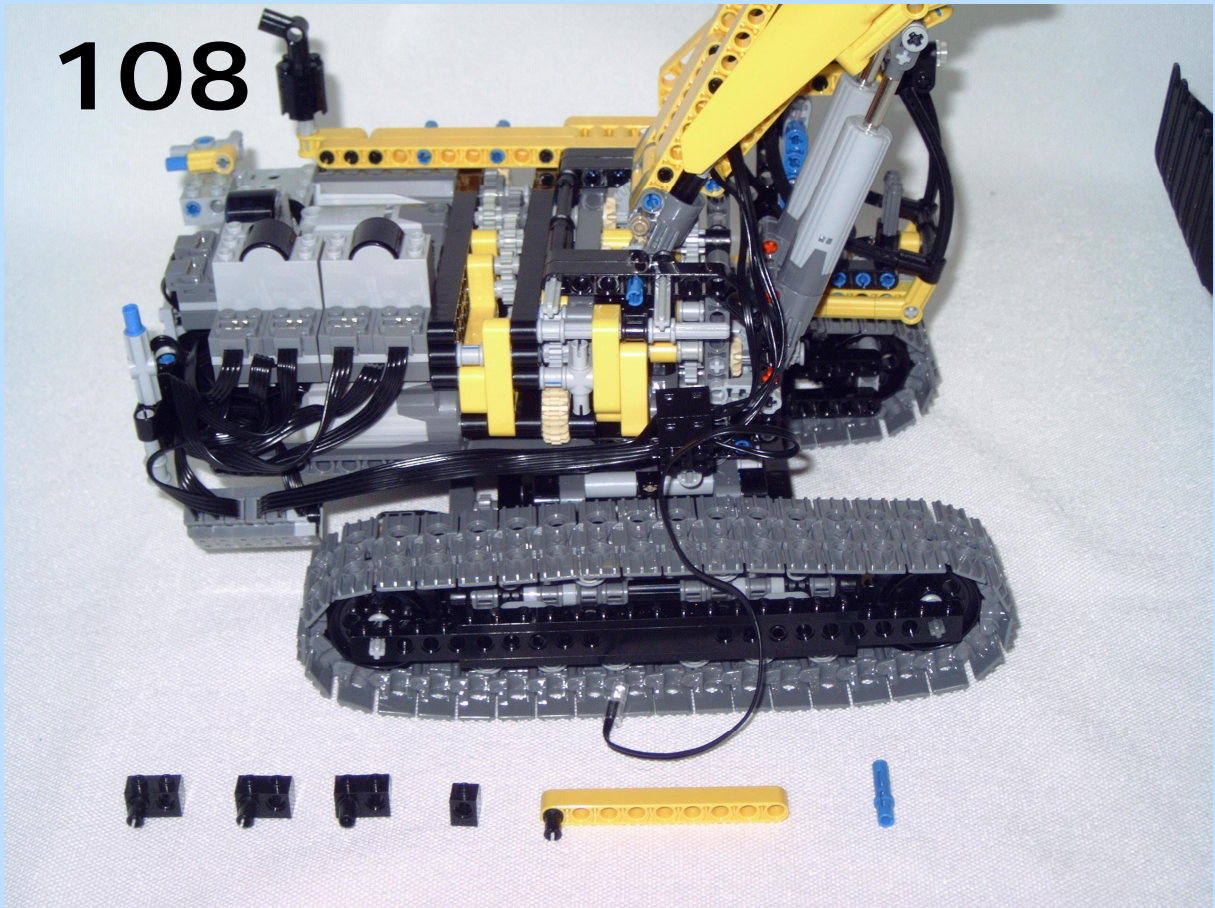
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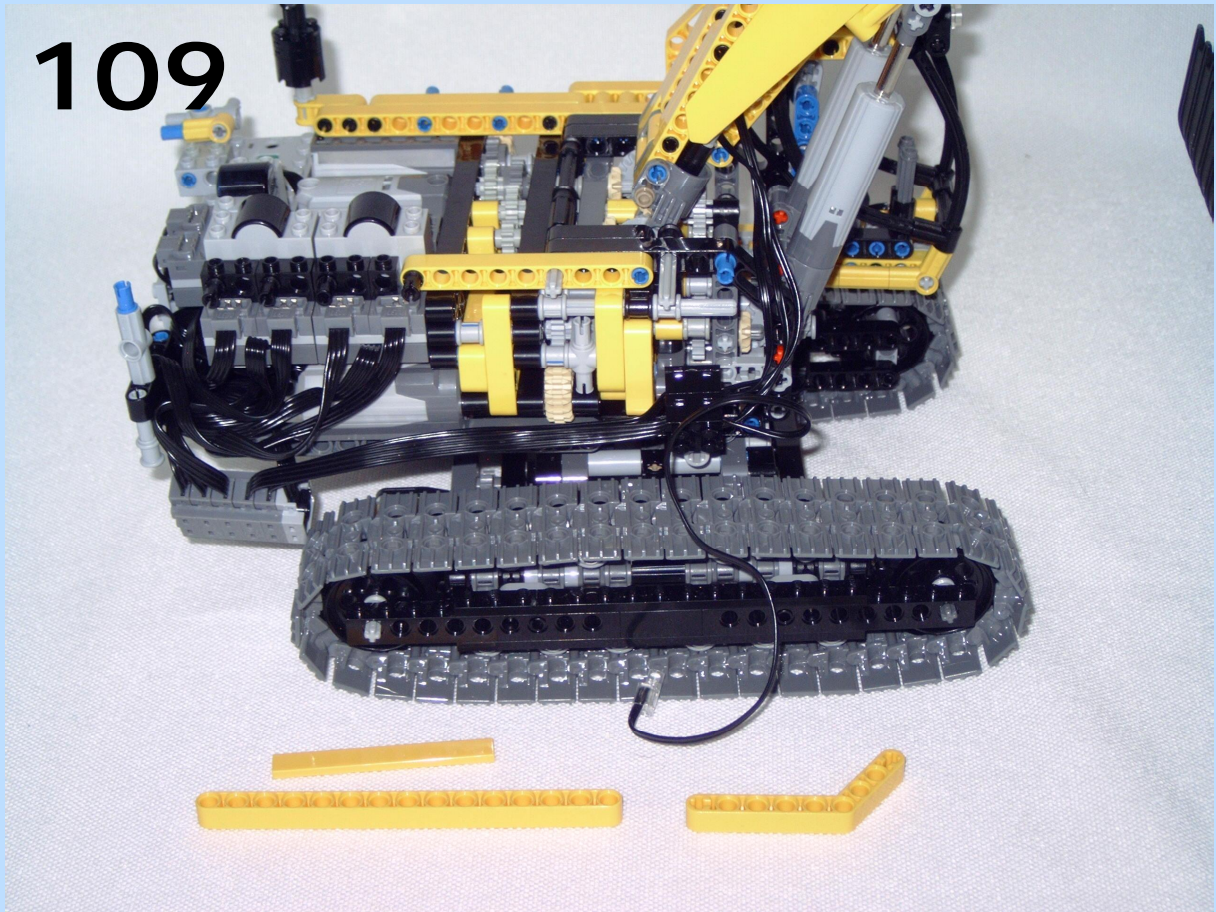
Connections:

- Slew: Ch 1 Red
- Boom: Ch1 Blue
- Drive left: Ch 2 Red
- Drive Right: Ch 2 Blue
- Bucket: Ch 3 Red
- Dipper: Ch 3 Blue

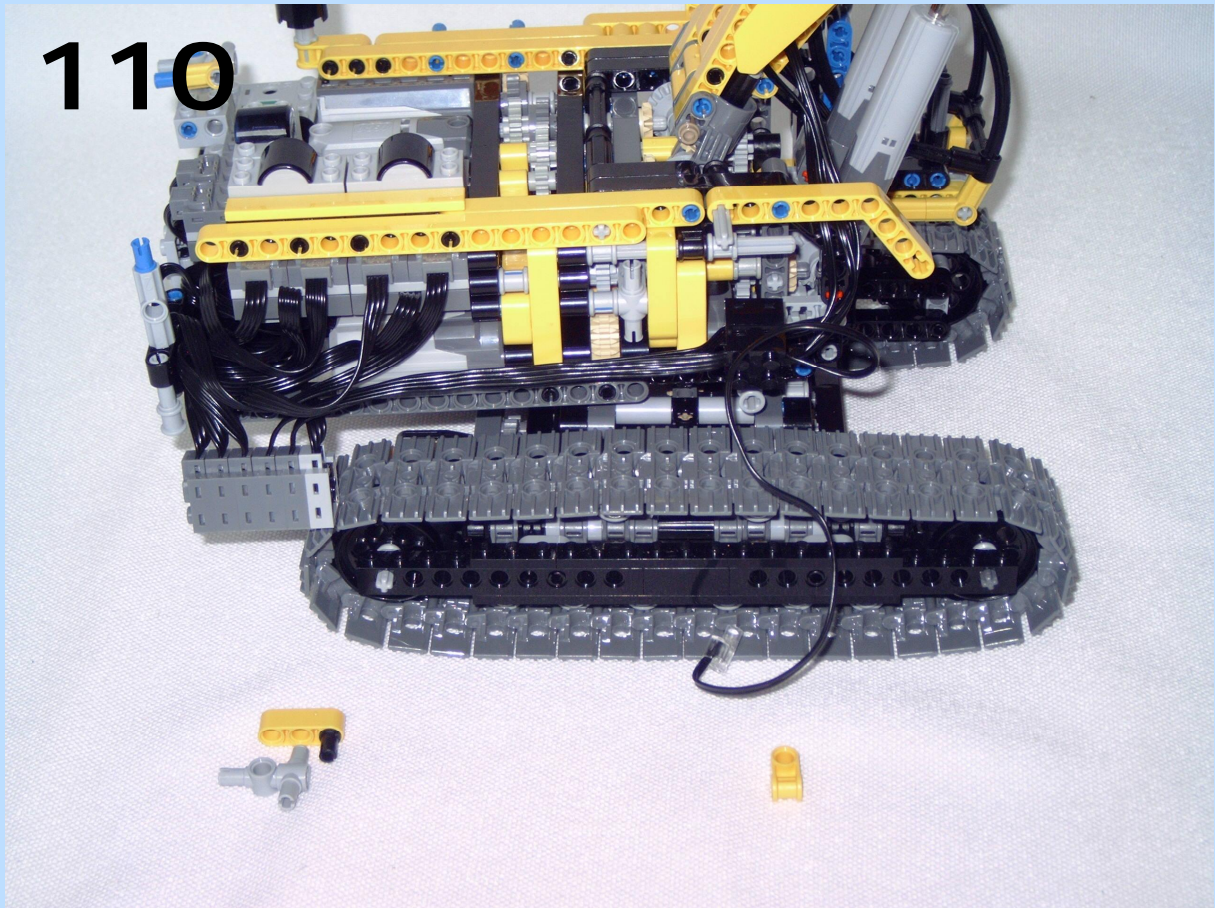
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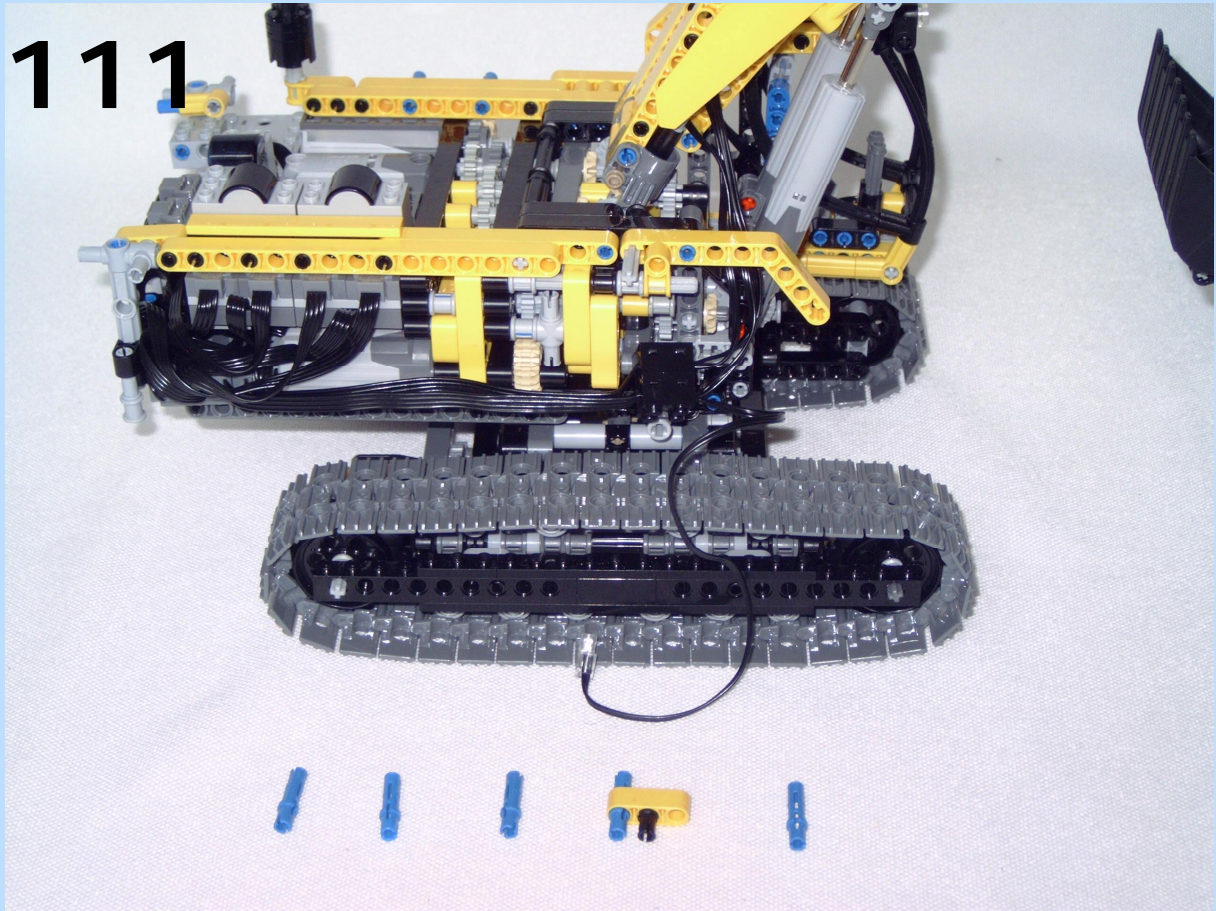
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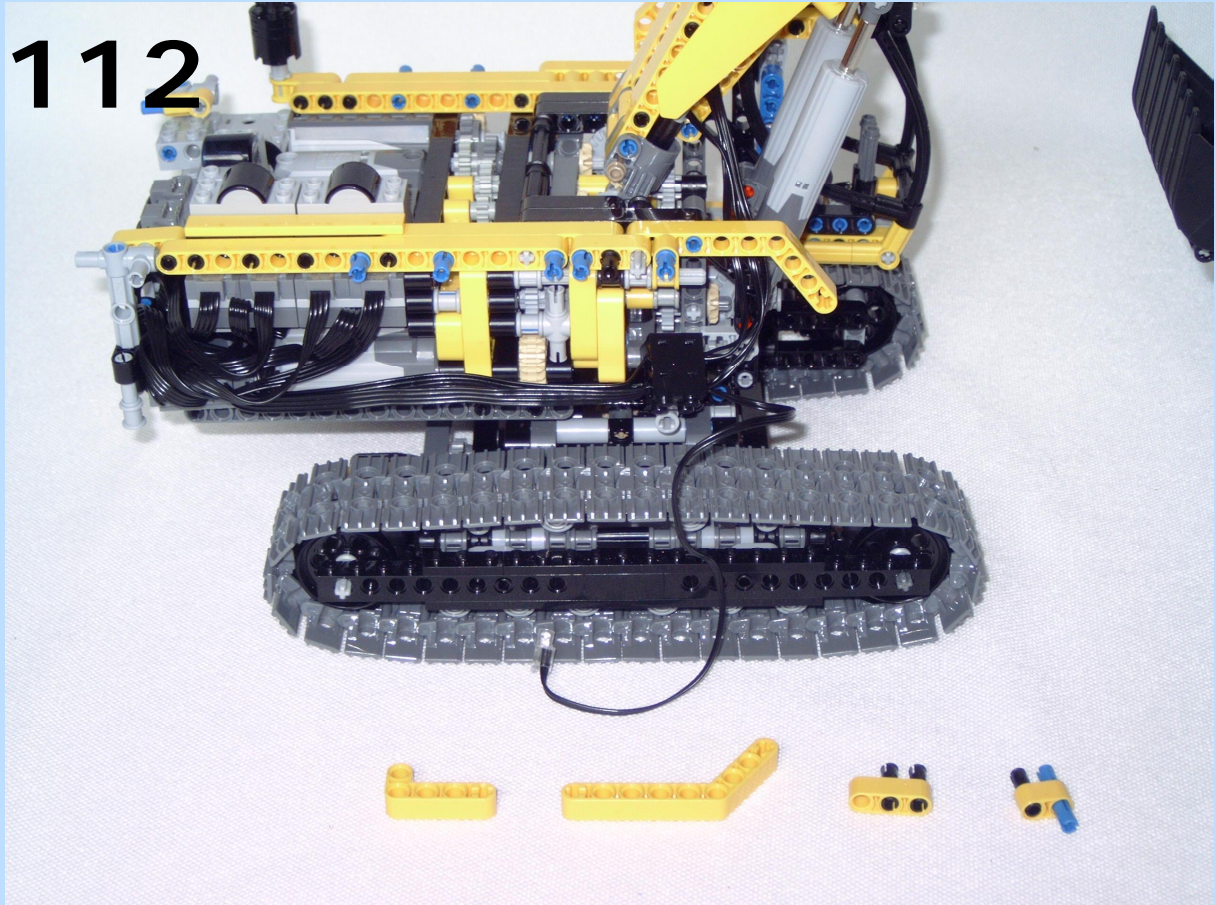
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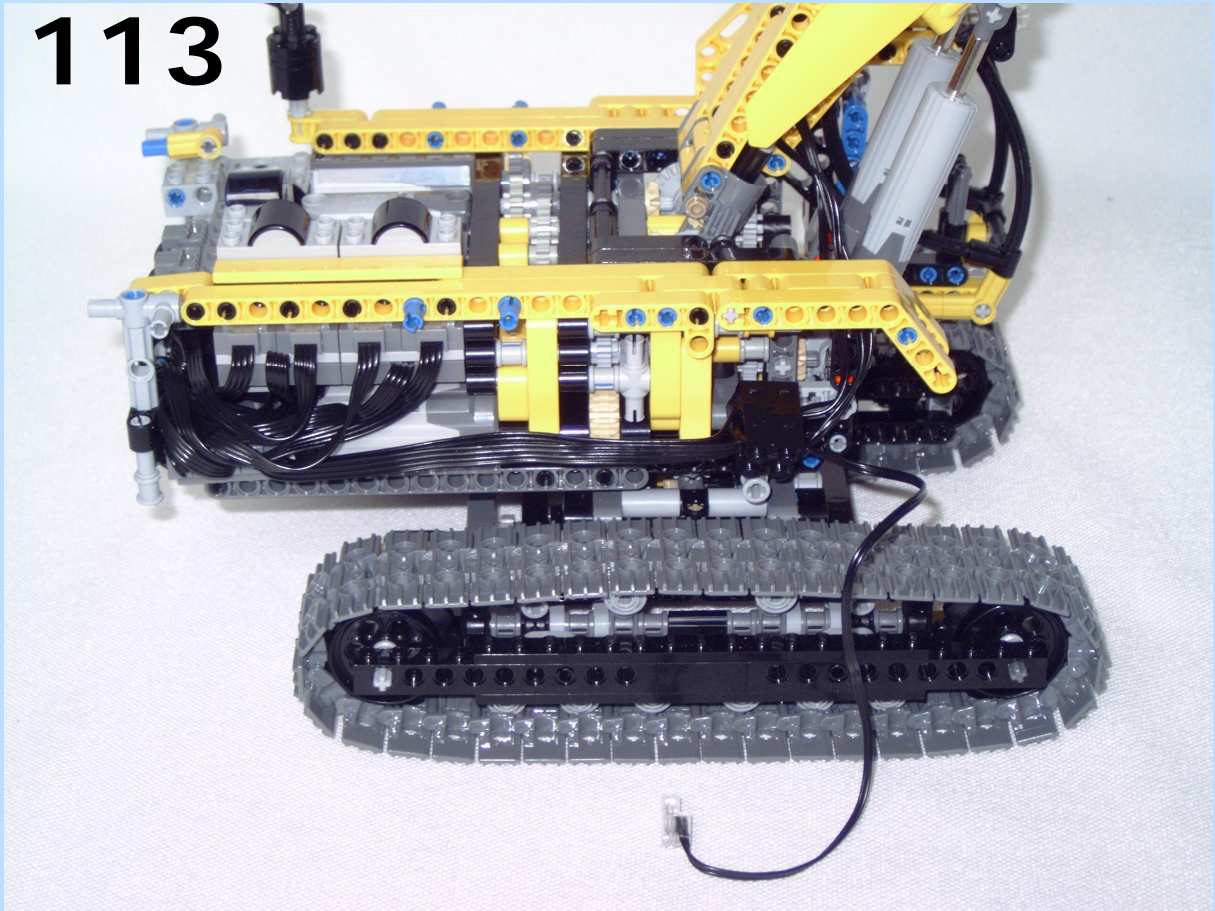
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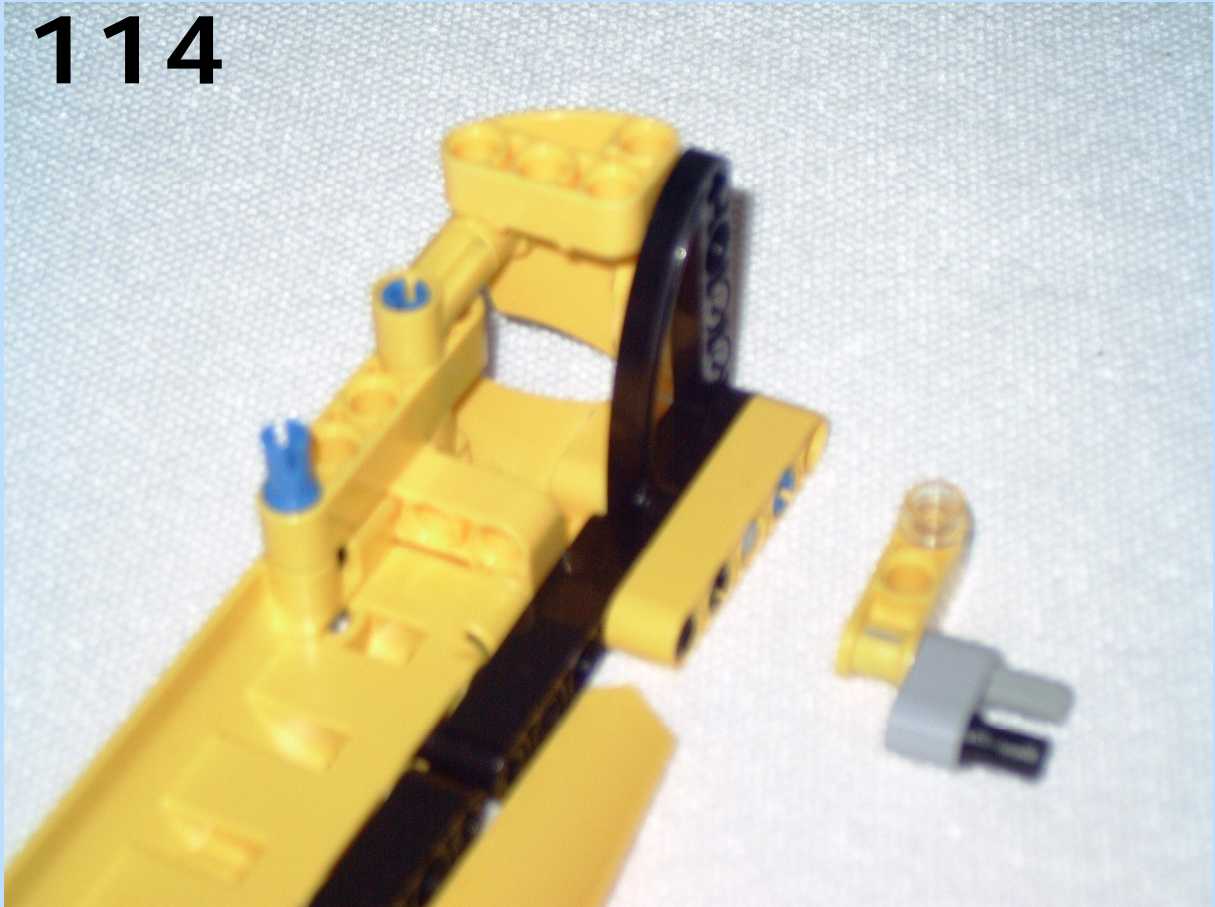
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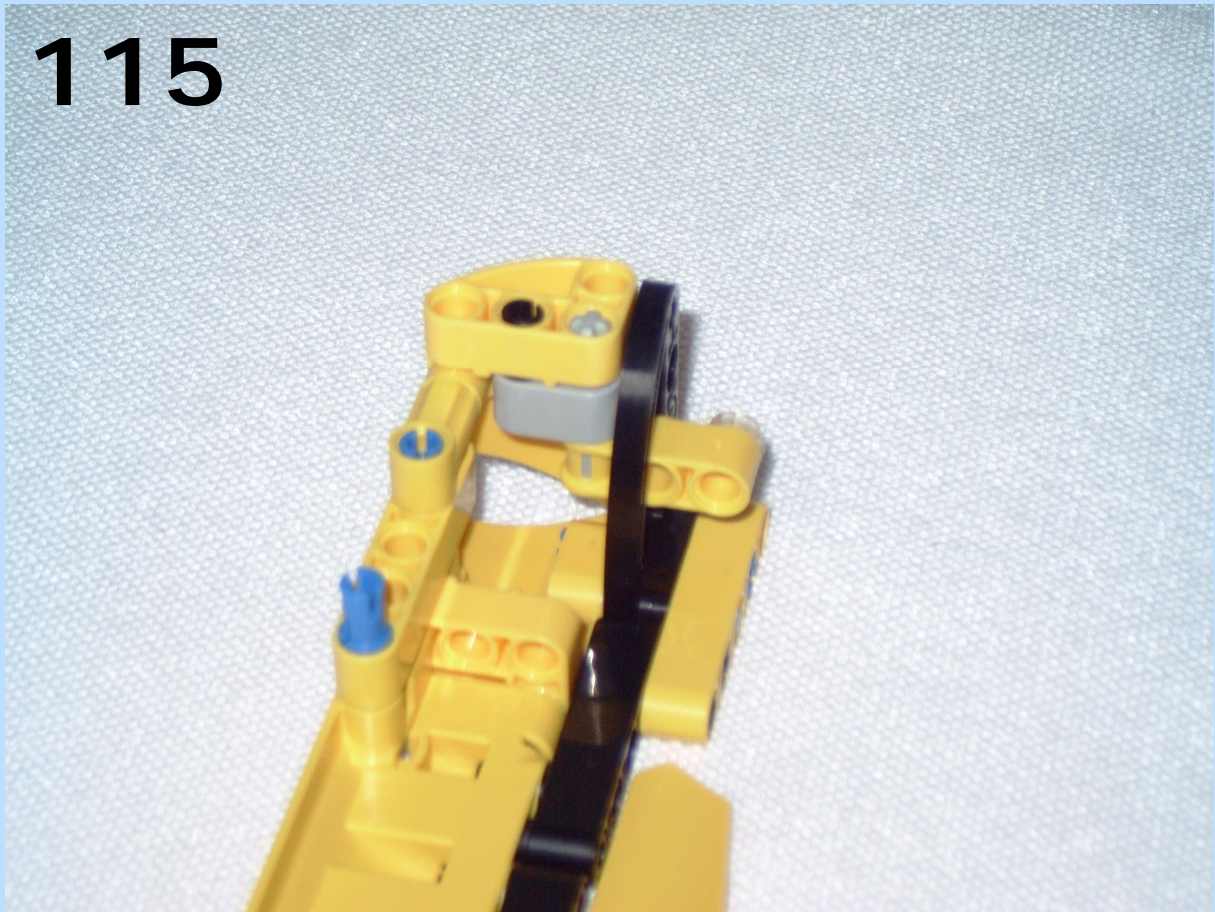
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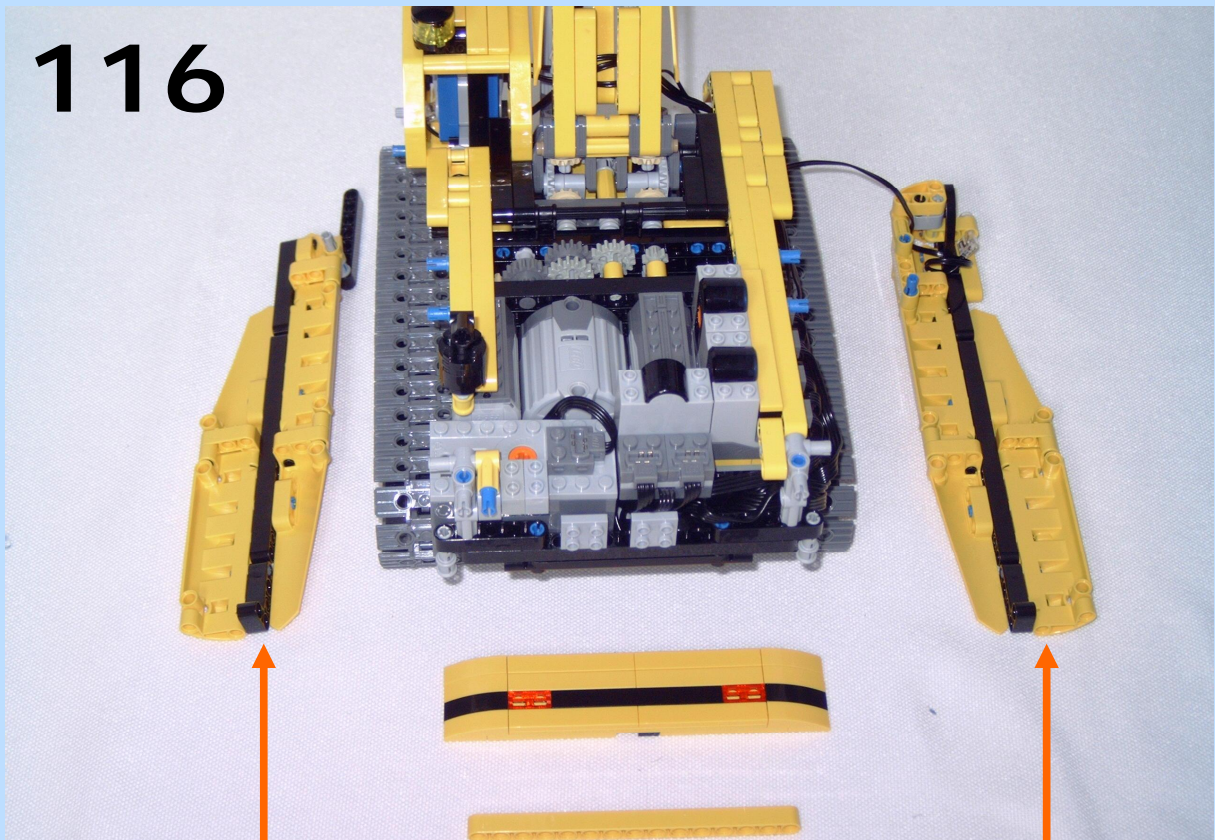
114



115



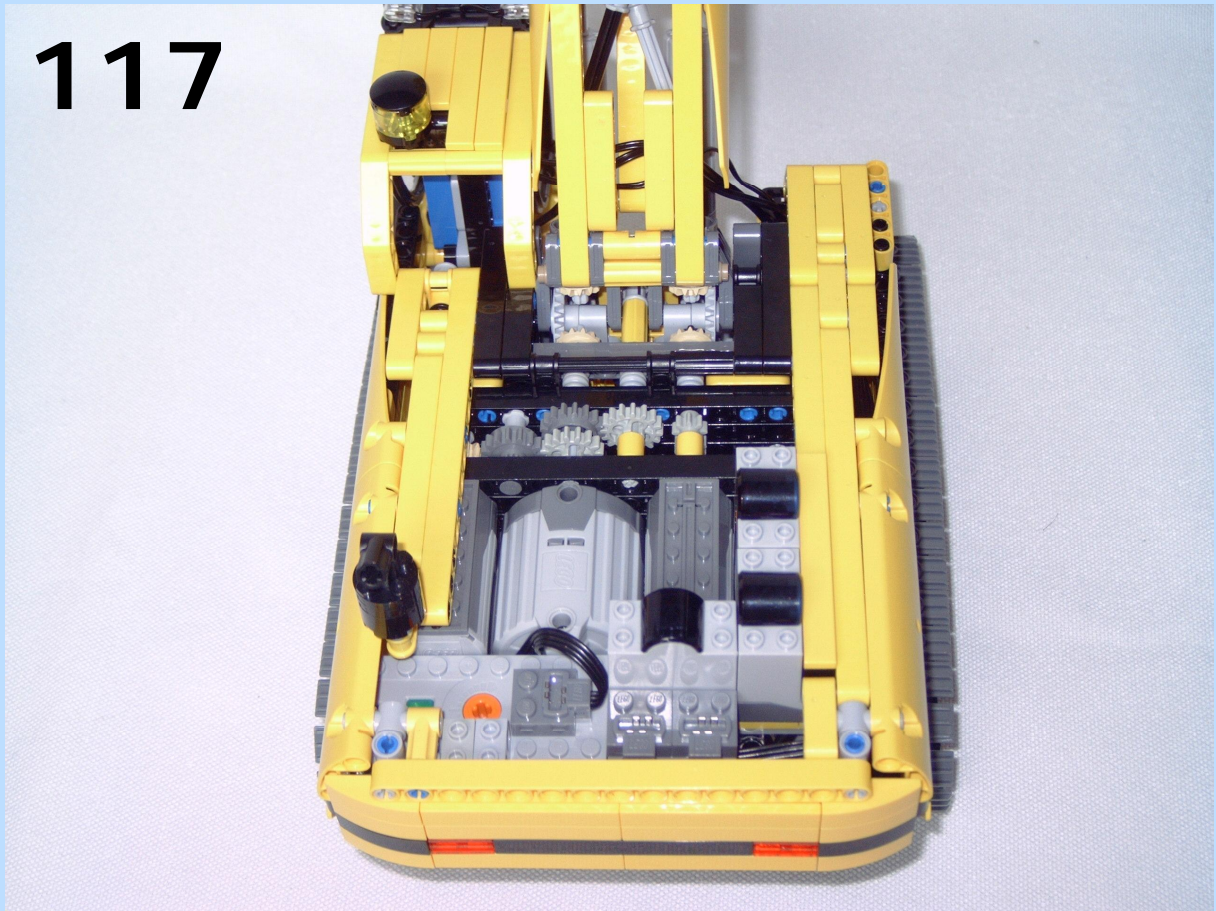
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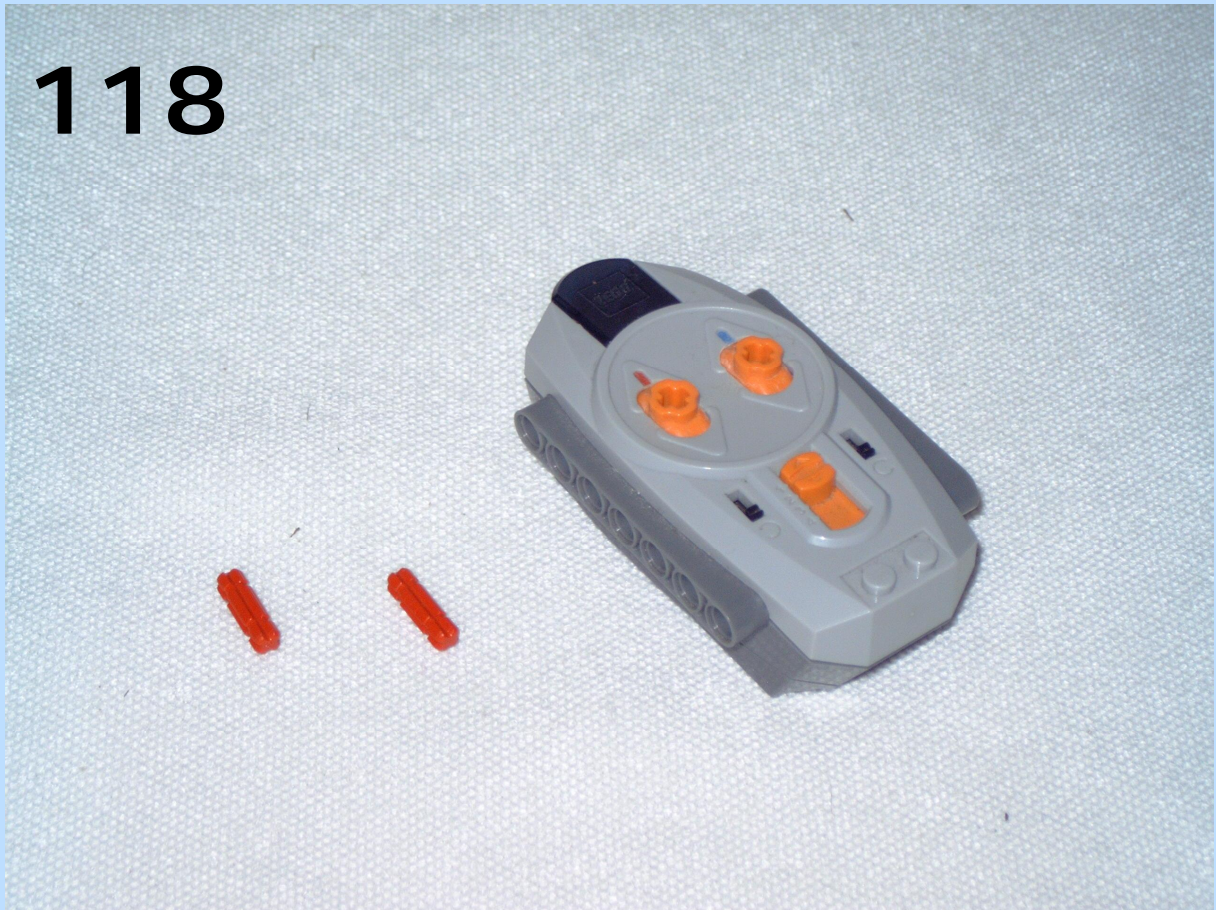
See book 3, page 19 - 25)

See book 3, page 29 - 34)

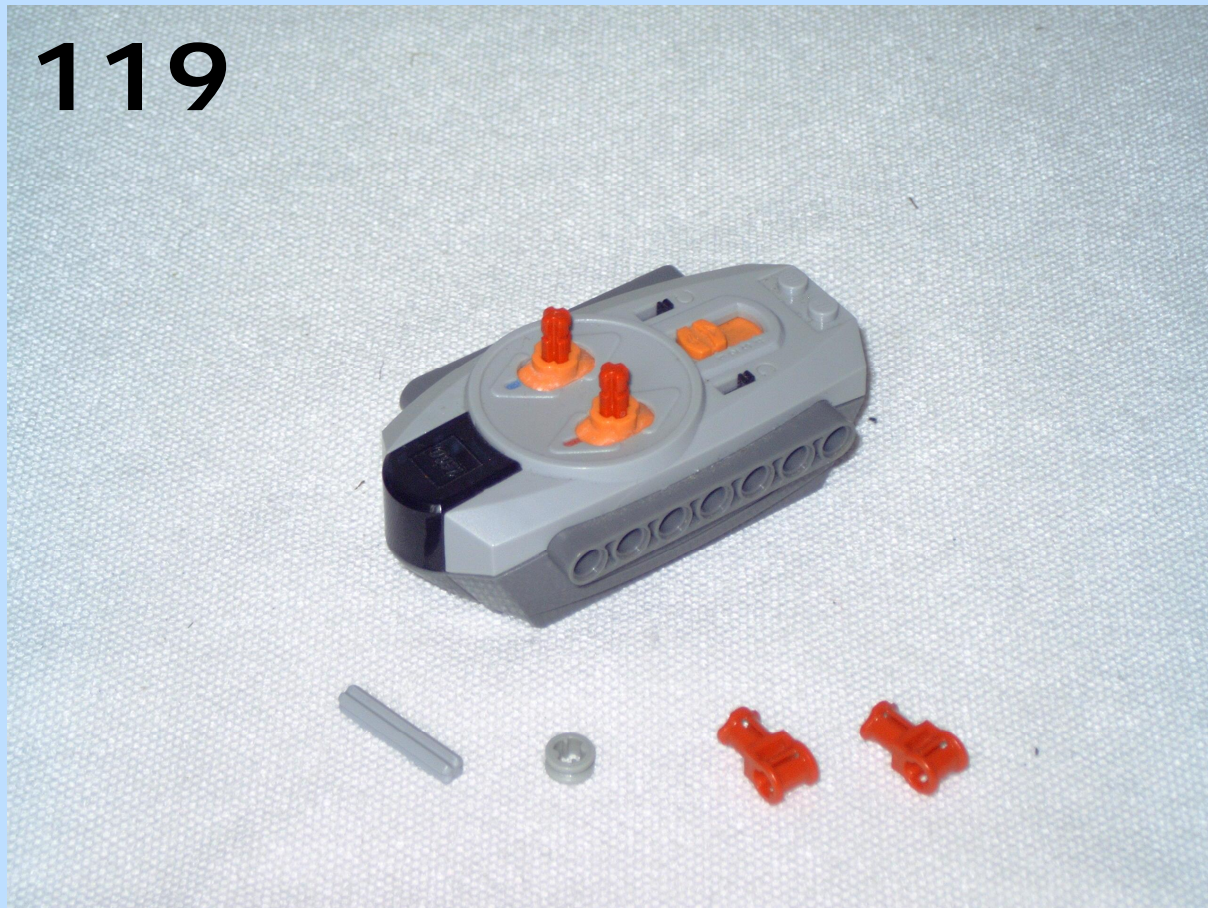
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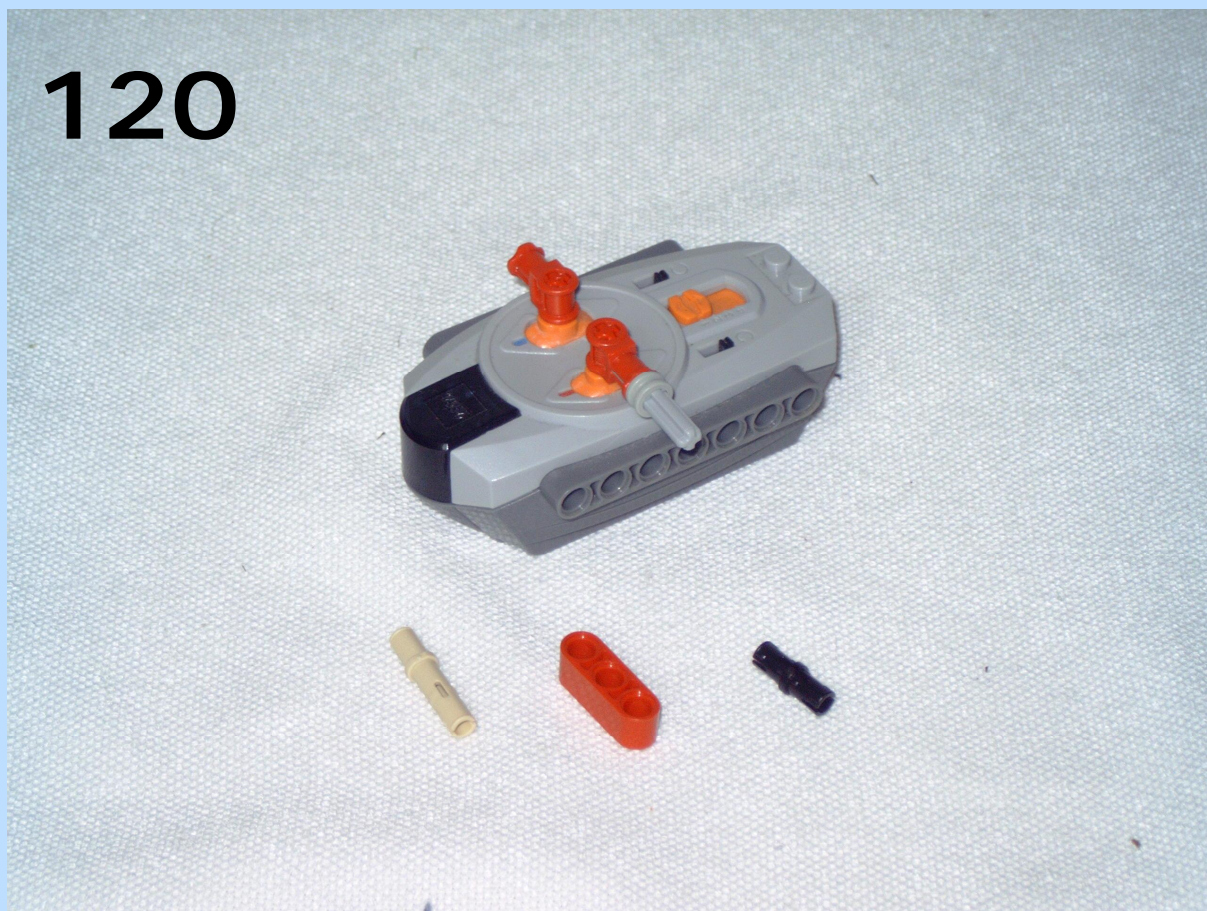
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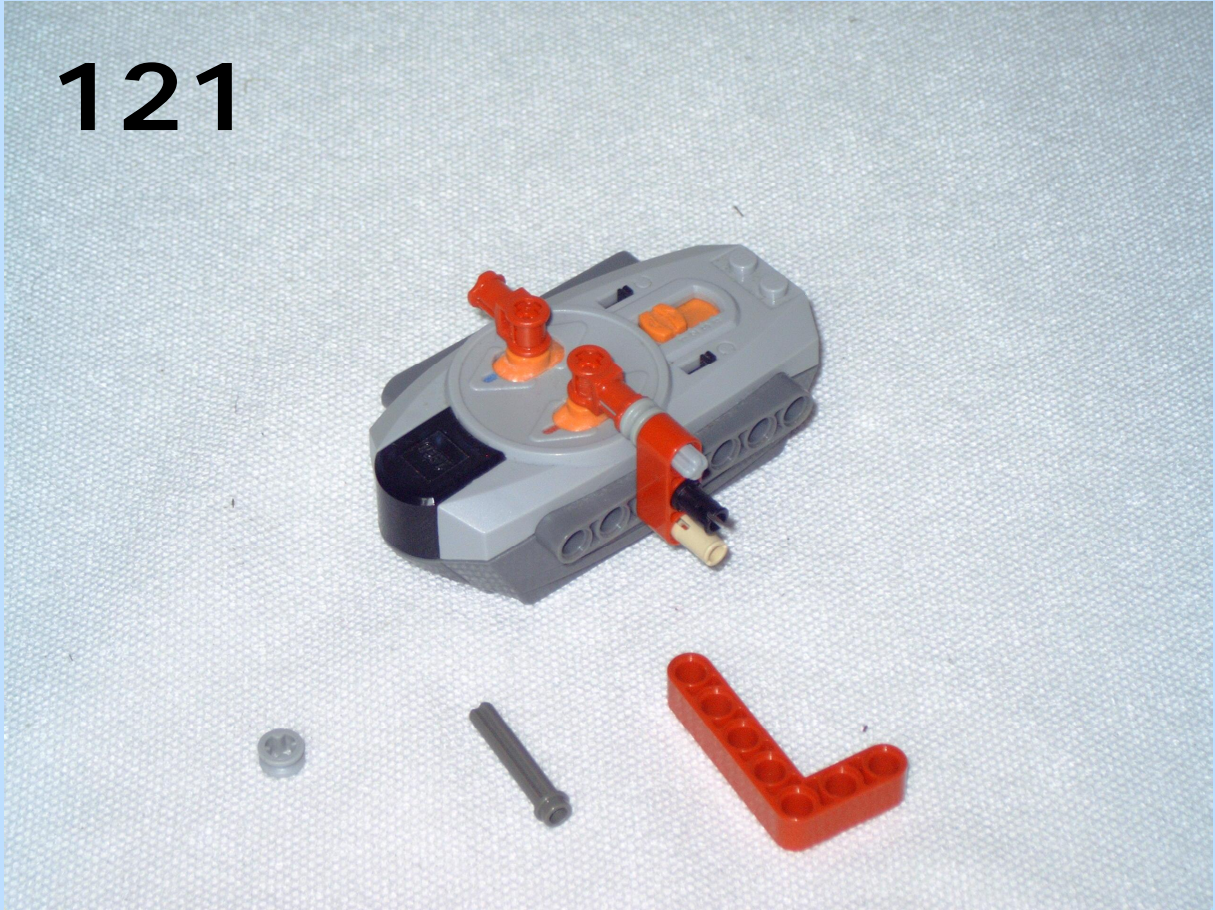
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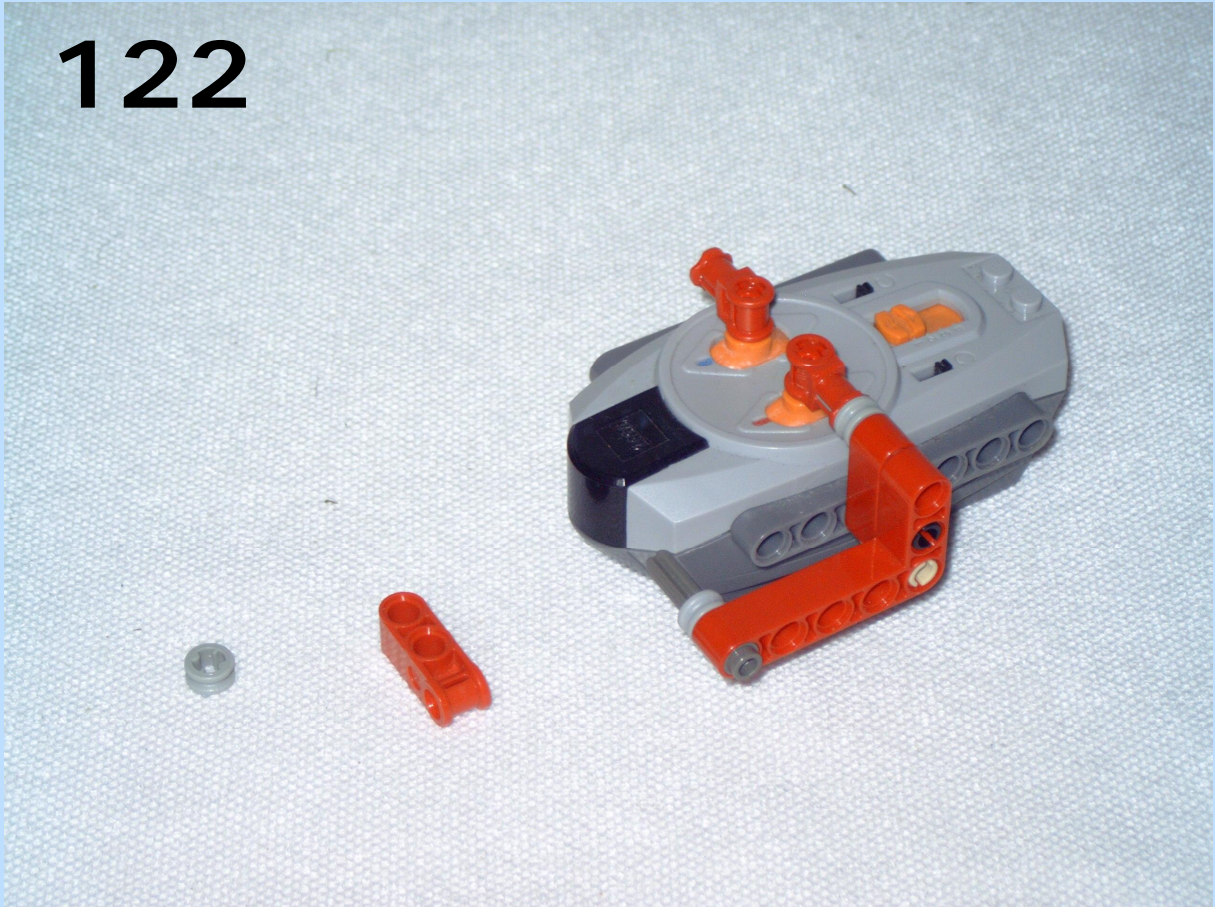
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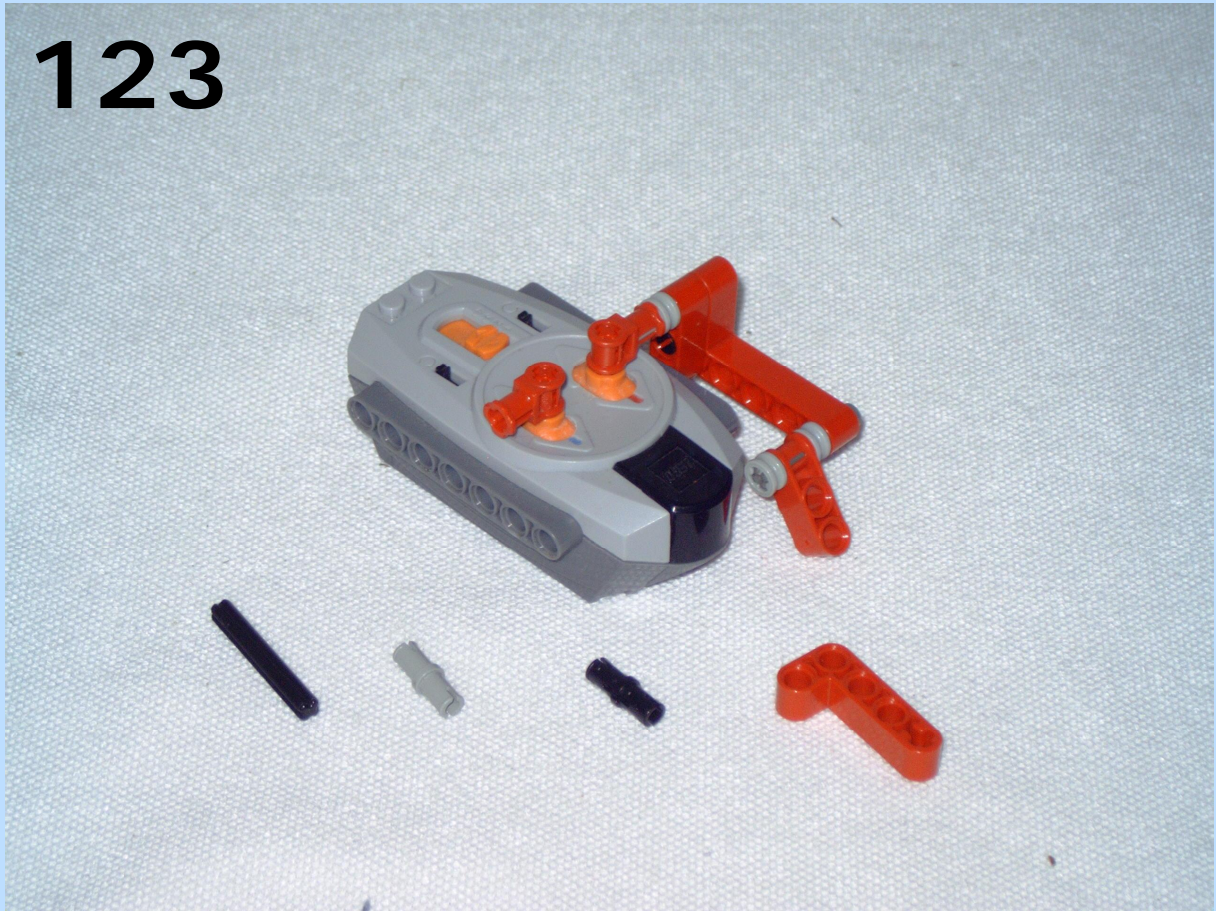
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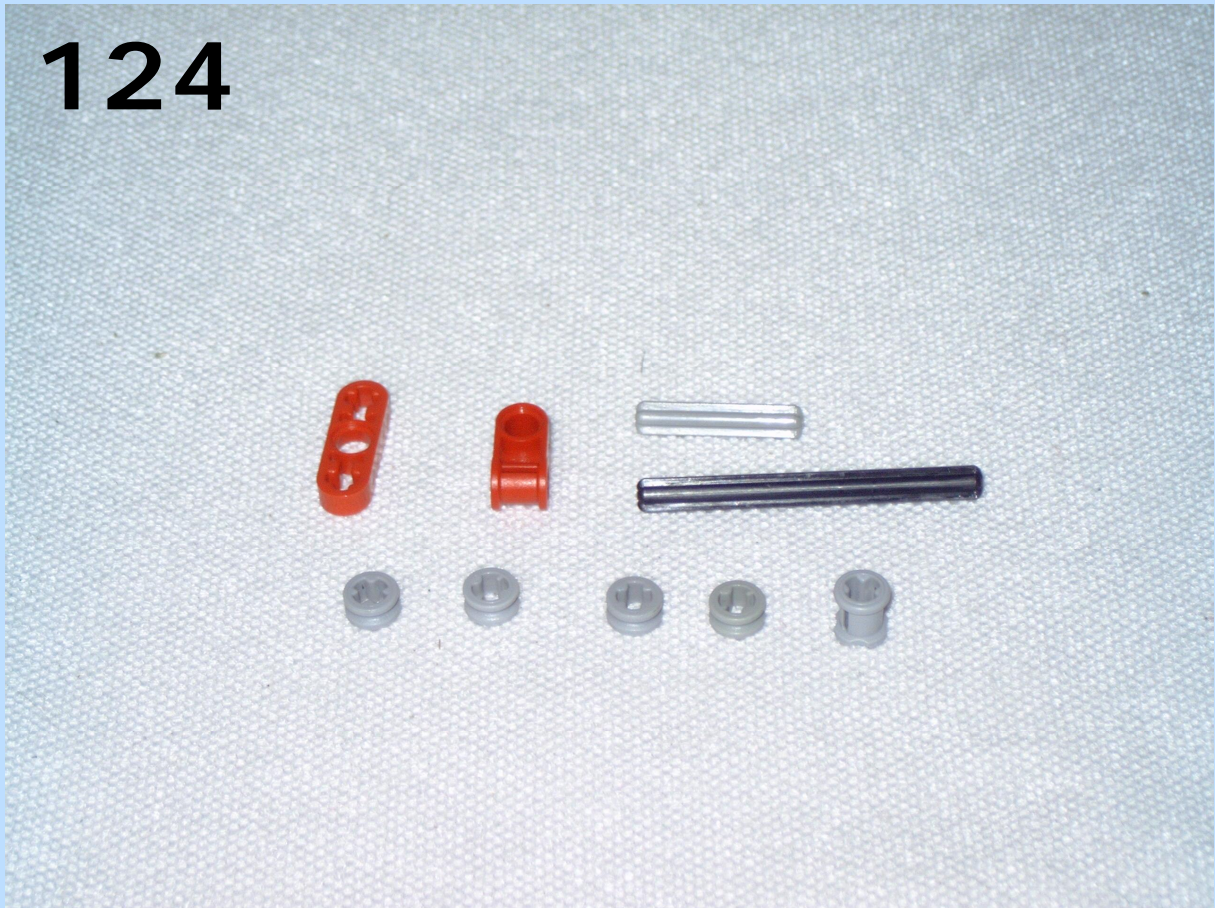
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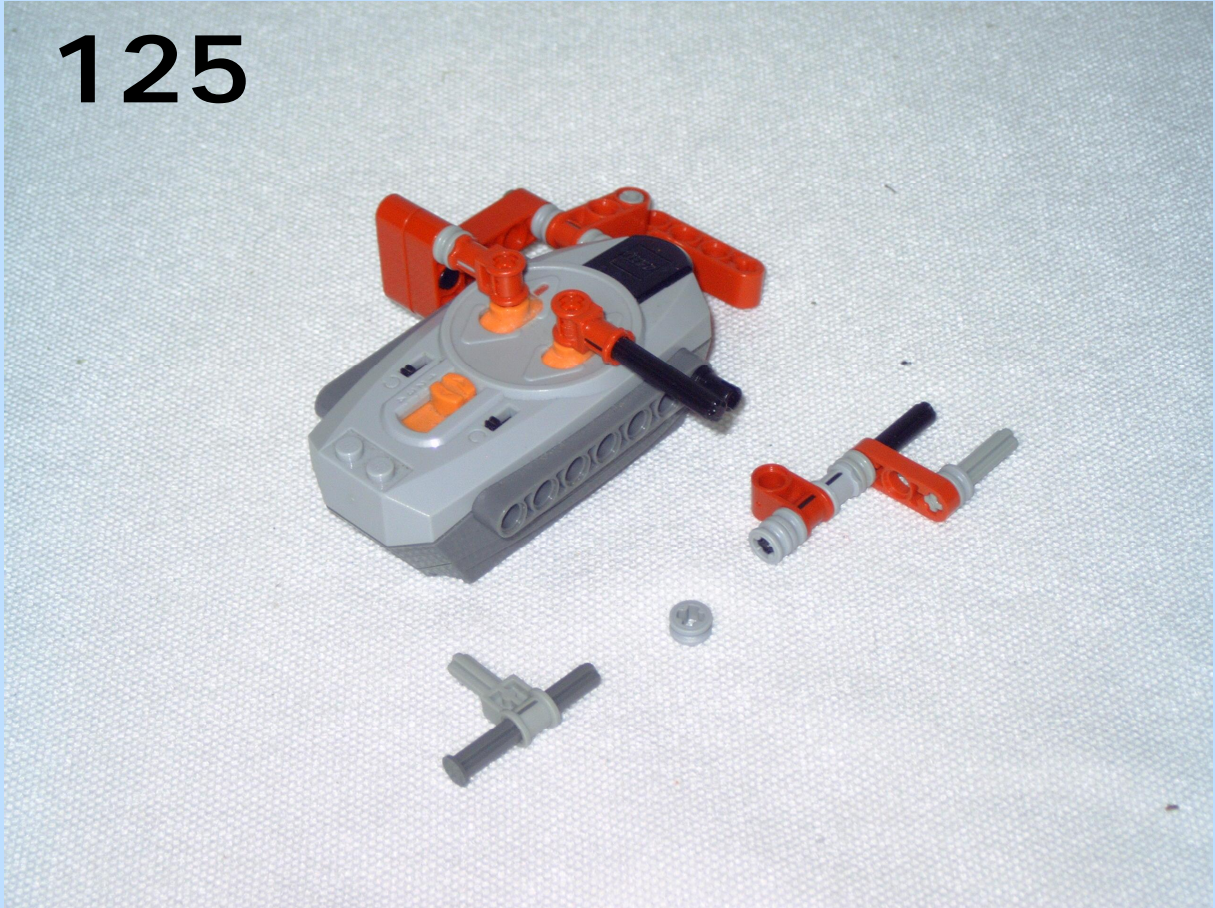
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124



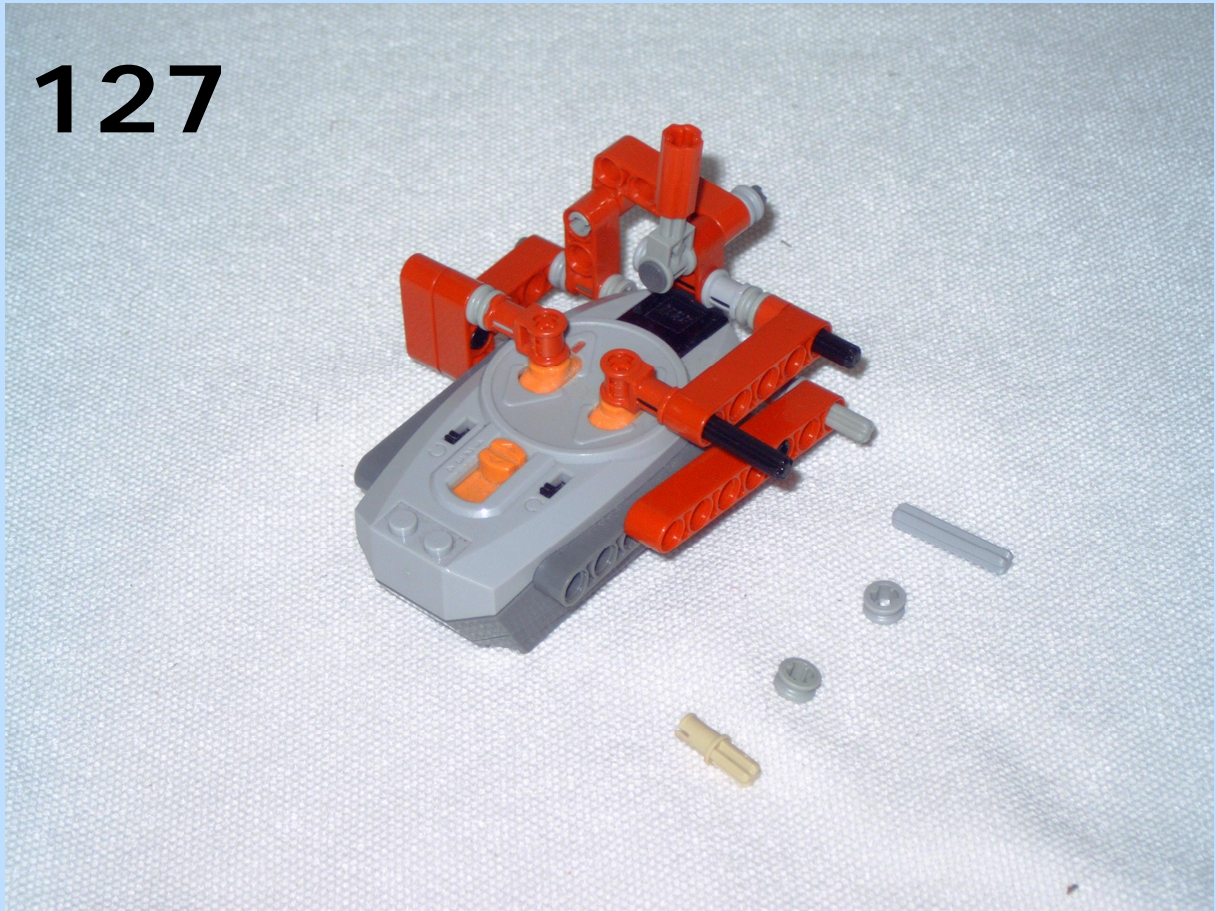
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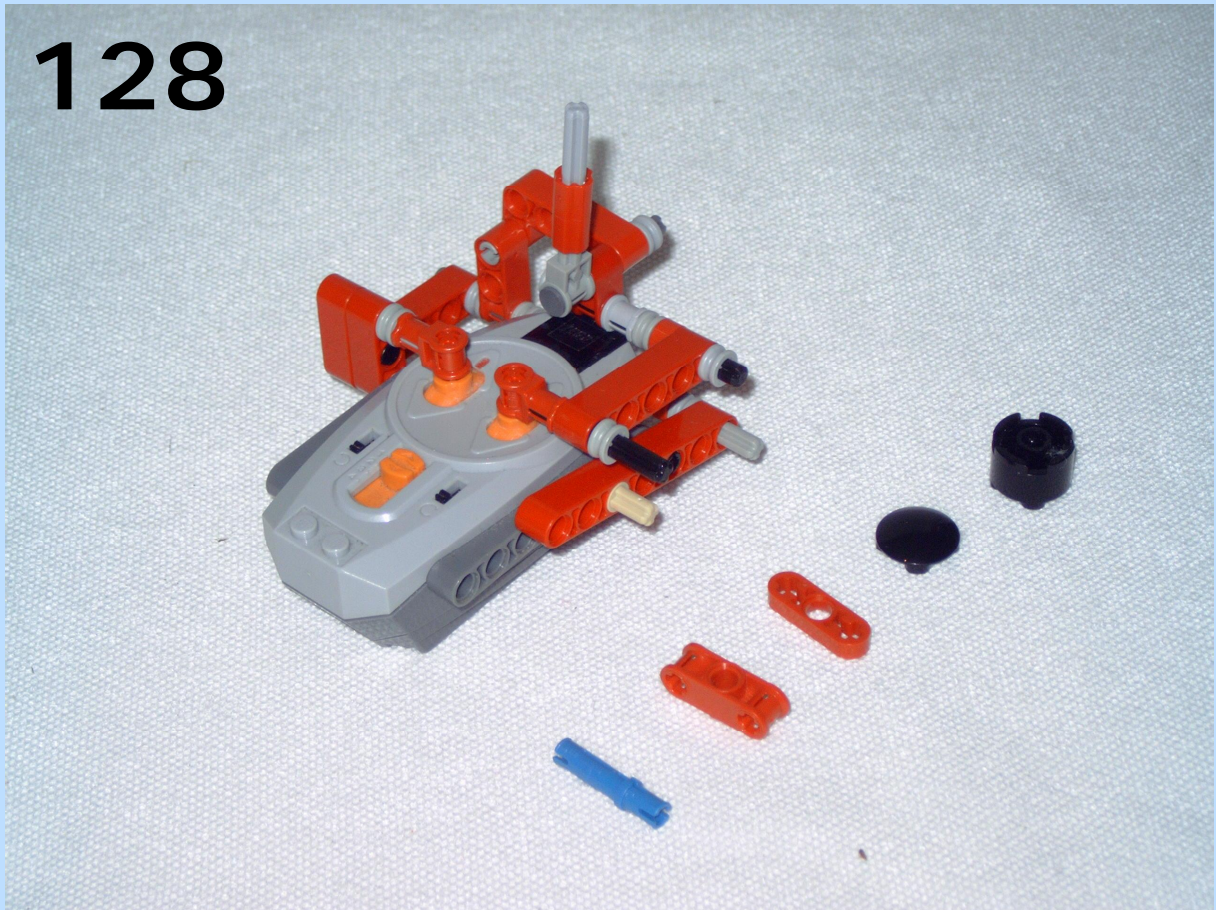
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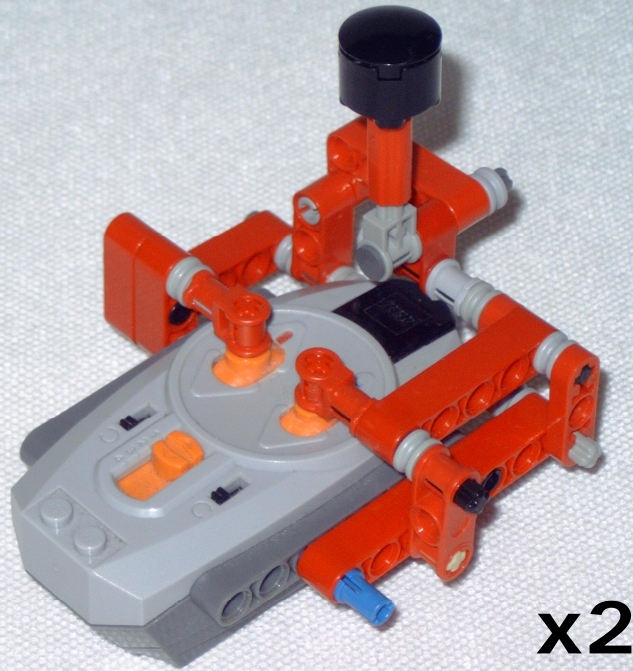
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128



129

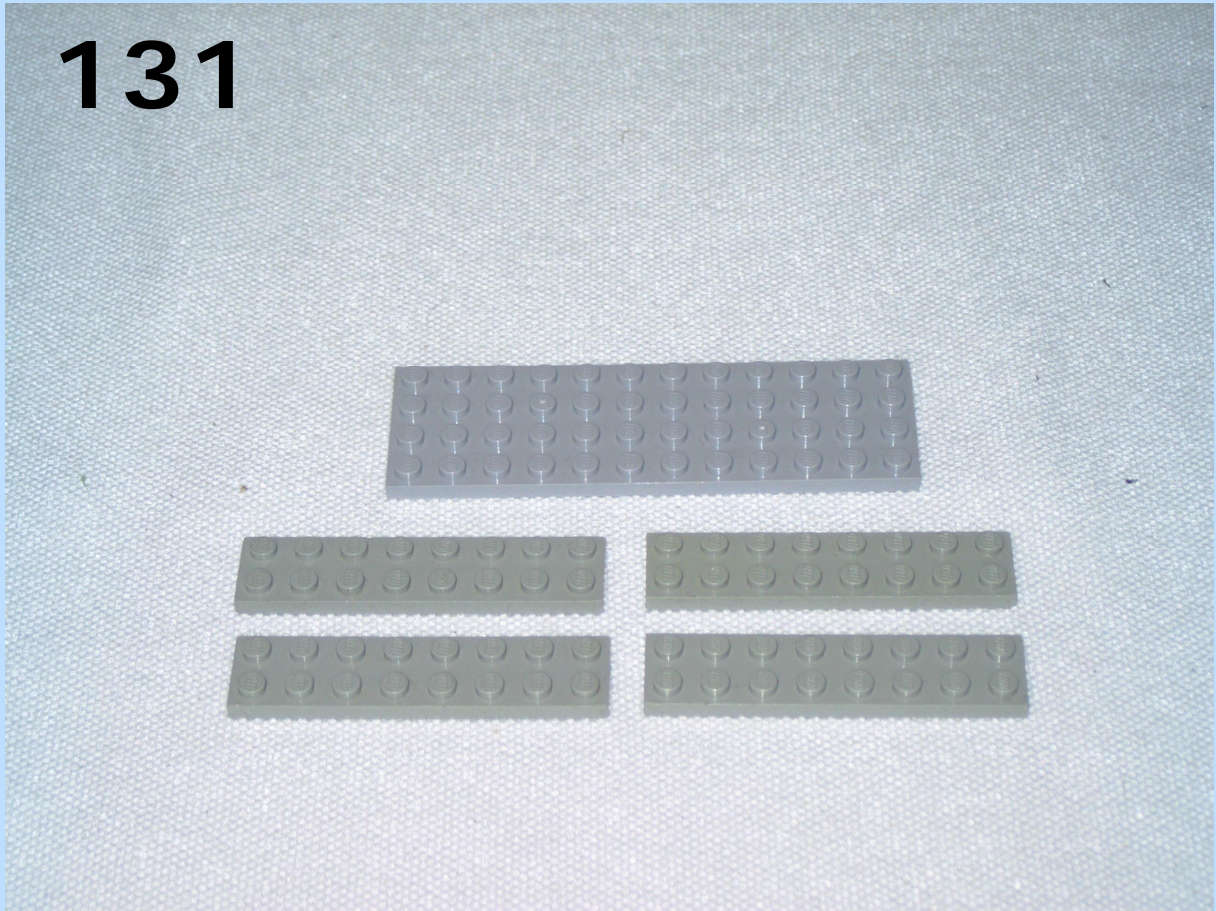


x2

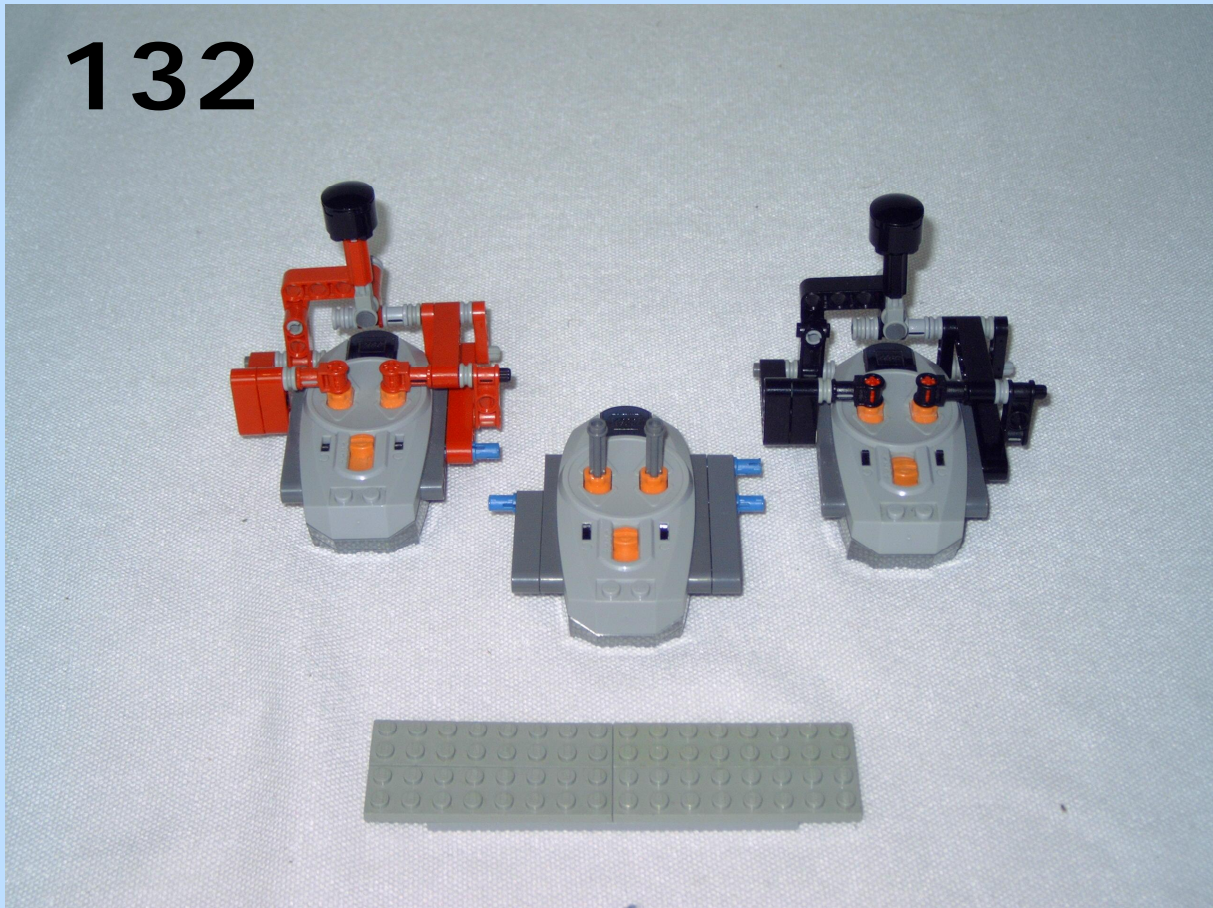
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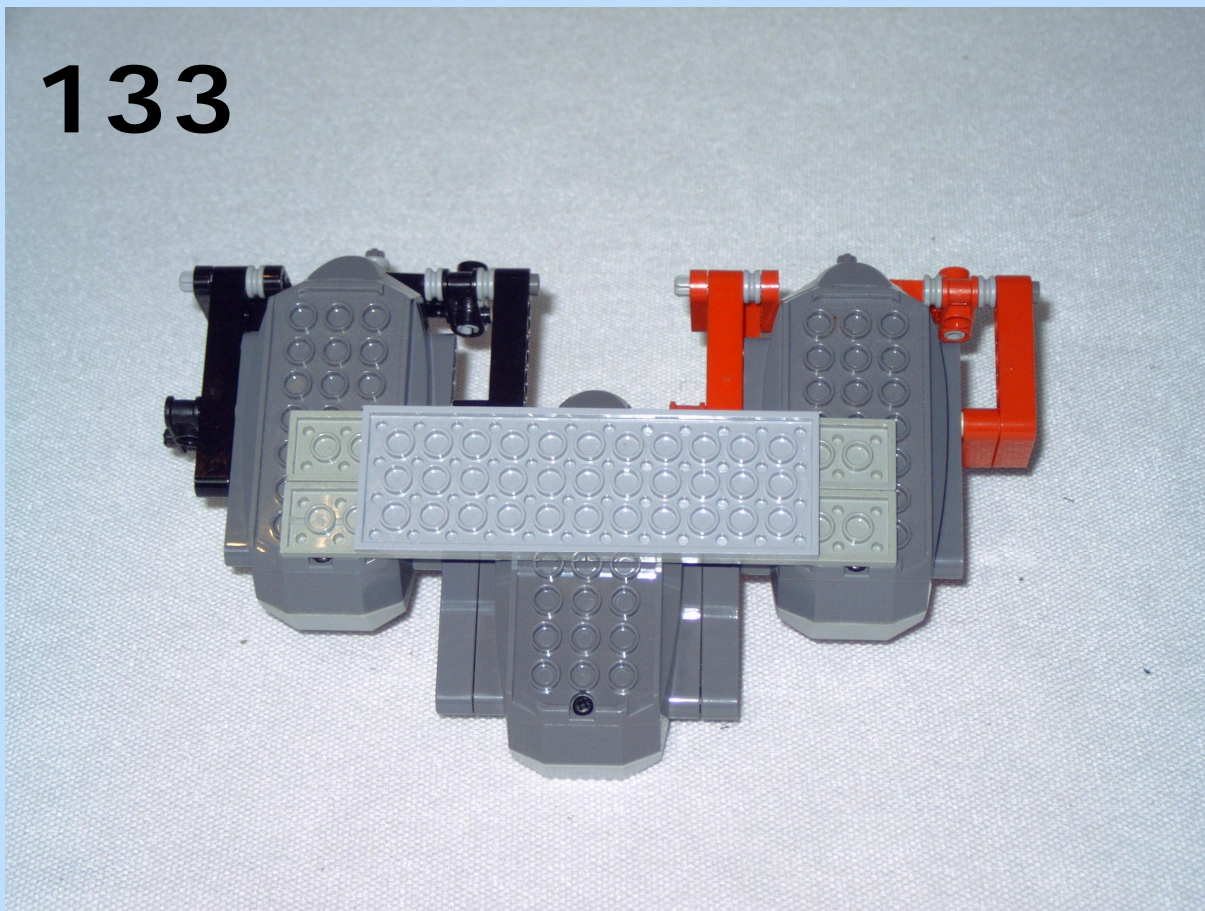
131



132



133



134

