

# THE LEGO® BUILD-IT BOOK

# AMAZING VEHICLES



BUILD 10  
**LEGO**  
MODELS!



Nathanaël Kuipers  
Mattia Zamboni







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THE LEGO® BUILD-IT BOOK  
**AMAZING VEHICLES**

The LEGO® Build-It Book, Vol. 1: Amazing Vehicles.  
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# AMAZING VEHICLES



Nathanaël Kuipers — Mattia Zamboni



# About the authors

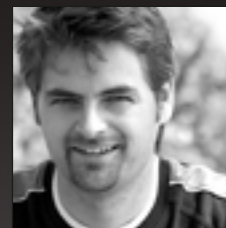
## **Nathanaël Kuipers** Model Designer

Nathanaël Kuipers is a Dutch design professional who worked for several years as a product developer for the LEGO Group in Denmark, where he was mainly responsible for engineering LEGO Technic models. He is the mastermind behind models like #8261, #8271, #8272, #8292, and #8674. He has also collaborated on the creation of many other models. Check out his work at <http://www.nkubate.com/>.



## **Mattia Zamboni** Graphic Artist

Mattia Zamboni is a fan of graphic design, photography, and LEGO, and he has a degree in electrical engineering. Based in Switzerland, he pursues his passion of graphic design, showcasing his talents within the world of 3D computer graphic arts. Check out his work at <http://www.brickpassion.com/>.





# Acknowledgments

## From Nathanaël:

First I'd like to thank Mattia Zamboni for his enthusiasm, dedication, and friendship. If it weren't for him, this book would never have looked this good and perhaps would never have seen the light of day. I'd also like to thank the LEGO Group for their great toy and for giving me the opportunity of a lifetime: to design several official models, which made me a better builder.

Furthermore I thank my parents for their unconditional love and support and for giving me several LEGO sets to build with as a child so I was able to express and develop my creative side; Joe Meno for his support in publishing some of my models and for introducing me to No Starch Press; and No Starch Press for believing in an idea and for providing this great opportunity to share my knowledge.

And of course, a big "Thank you!" to all the fans who have given their support from around the world, motivating me to write a book. Your kind and encouraging words have kept me going during difficult times!

## From Mattia:

My biggest thanks go to Nelson Painço for his advice on improving my 3D graphics and the images you see in this book. Thanks also to my son, Leonardo, who has been an excellent play tester despite his young age, and to my sweet wife, Fabiola, who has supported this project from the beginning. Special thanks go to Pasquale D'Silva for very kindly providing the quirky character for this book. And last but not least, I am grateful to Nathanaël for being such a great inspiration with his models!



# About the book

“Just imagine!”

Sometimes it’s not as easy as it sounds, is it? Well, help is on the way. In this book, you’ll find the secrets of a true master builder—so be prepared for some pretty advanced techniques.

Because we don’t want to bore you with theory, our focus is on building in practice, guiding you with step-by-step instructions. By creatively using the same pieces in 10 different configurations, you’ll see the amazing potential of the LEGO brick.

We hope that this book helps you to discover the many possibilities that the LEGO system has to offer, unleashing your creativity and inspiring you to create your own original models!

## What you need

Every project in this book uses a common set of pieces—a complete list is shown in the Bill of Materials on the facing page. If you have set #5867, the LEGO CREATOR Super Speedster, you have all the bricks you need.

If you have a collection of other LEGO sets and want to determine which pieces you’re missing from set #5867, we recommend using Rebrickable (<http://rebrickable.com/>). To buy the parts you’re missing, you have a few options.

If you’re not lucky enough to live near an official LEGO retail store with a “Pick a Brick” wall, you can buy individual pieces online (<http://shop.lego.com/en-US/Pick-A-Brick-ByTheme>). You can also buy LEGO pieces from BrickLink (<http://www.bricklink.com/>), a comprehensive, international marketplace for buying new and used bricks.

Don’t forget that you can use parts in different colors or with similar shapes, too. That’s what’s so cool about building with LEGO bricks! You can always redesign and customize everything using your own imagination.





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OH! HI THERE!  
MY NAME IS GEORGE.  
I'LL BE YOUR GUIDE IN  
THIS BOOK!





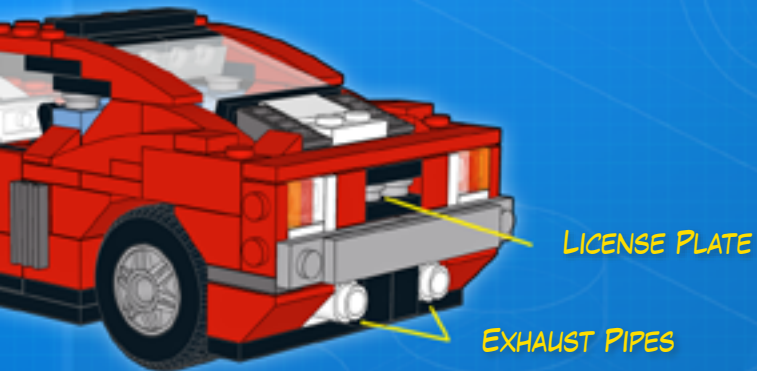
# BUILDING BASICS



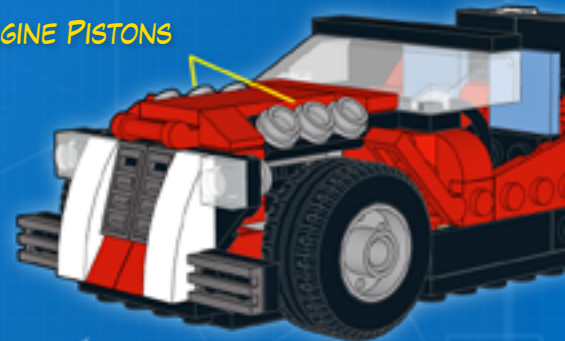
## GETTING CREATIVE WITH PARTS

WHEN YOU'RE BUILDING, IT REALLY DOESN'T MATTER WHAT BRICKS YOU START WITH. THE MOST IMPORTANT THING IS TO BE CREATIVE WITH THE MATERIALS YOU HAVE.

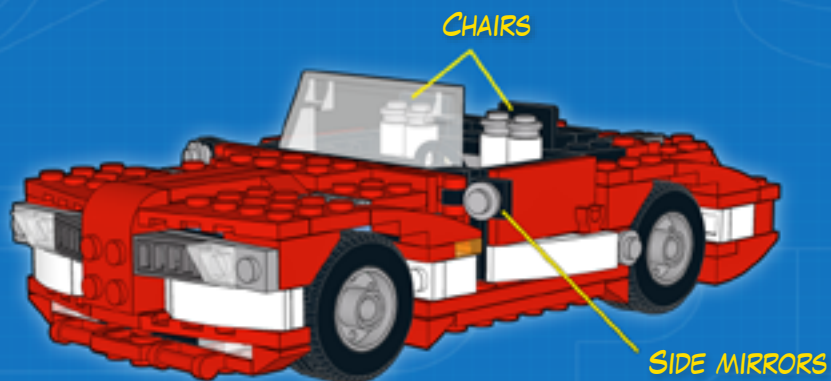
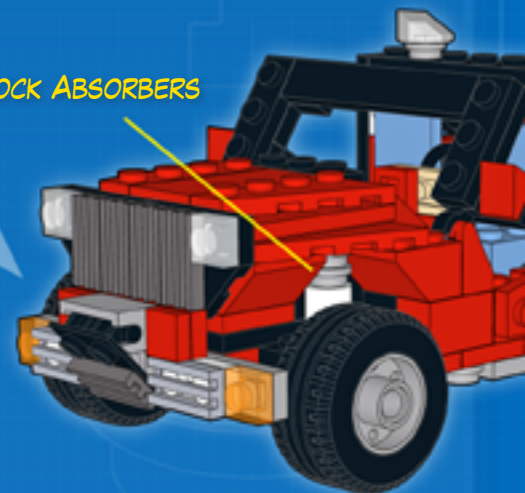
WITH A LITTLE IMAGINATION, EVEN THE SIMPLEST ELEMENTS CAN HAVE AN AMAZING VARIETY OF USES.



ENGINE PISTONS



SHOCK ABSORBERS



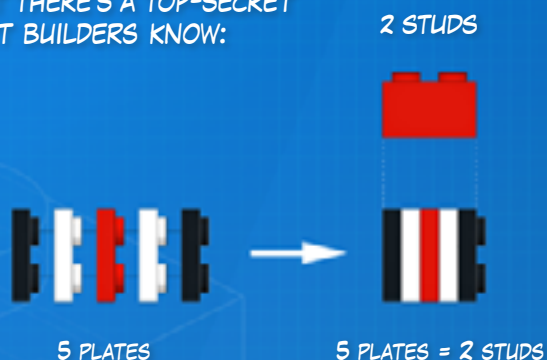
## HOW BRICKS FIT TOGETHER



THE LEGO BUILDING SYSTEM HAS A FEW DIFFERENT WAYS TO MEASURE DISTANCE. WE'LL USUALLY MEASURE PIECES IN TERMS OF THEIR **WIDTH** AND THEIR **HEIGHT**. THE LEGO BRICK ON THE RIGHT IS 2 **STUDS** WIDE AND 1 **BRICK** HIGH. THREE PLATES ARE EQUAL IN HEIGHT TO ONE BRICK.



A LOT OF BUILDERS KNOW THAT. BUT THERE'S A TOP-SECRET **MAGIC FORMULA** THAT ONLY EXPERT BUILDERS KNOW:



SO WHAT DOES THIS IMPLY?



FOR MANY YEARS, THE ONLY THING YOU COULD DO WITH BRICKS WAS STACK THEM ONE ON TOP OF ANOTHER. BUT IN THE PAST DECADE OR SO, THE LEGO GROUP HAS INTRODUCED MANY MORE ELEMENTS THAT ALLOW YOU TO BUILD SIDWAYS! THIS CREATED A SMALL REVOLUTION IN BUILDING TECHNIQUES.



WITH THESE SIMPLE BRICKS, YOU CAN LITERALLY BUILD IN A NEW DIMENSION!



IT MIGHT NOT BE OBVIOUS, BUT ALL OF THESE COMBINATIONS WERE BUILT WITH THE **MAGIC FORMULA** IN MIND. TAKE A CLOSER LOOK. DO YOU SEE HOW THEY'VE BEEN COMBINED?





BUT WAIT, THERE'S MORE! HERE'S ANOTHER EXAMPLE OF AN INTRIGUING PIECE. EVER WONDER WHY THE CLIP ISN'T PERFECTLY CENTERED IN THE PLATE?



WHY THIS GAP?

TO FIND OUT, LET'S ADD A FEW MORE PARTS. IT TURNS OUT THAT IT'S ANOTHER CLEVER DECISION, WITH THE MAGIC FORMULA IN MIND AGAIN.



SAME HEIGHT!

THAT'S ALL INTERESTING IN THEORY, BUT HOW CAN WE PUT THIS KNOWLEDGE TO USE? THIS BOOK IS FULL OF EXAMPLES OF THESE TECHNIQUES. HERE ARE A FEW:



I USED A CLIP TRICK (LIKE THE ONE SHOWN ABOVE) TO ATTACH THE WINDSHIELD OF THE MULTI-PURPOSE TRUCK.



IN THE MUSCLE CAR'S BACK LIGHT, THE MAGIC FORMULA IS CLEARLY VISIBLE!

5 PLATES = 2 STUDS



NOW THAT YOU UNDERSTAND THESE BASIC TECHNIQUES, LET'S START PUTTING THEM INTO PRACTICE.

KEEP YOUR EYES OPEN FOR THE MAGIC FORMULA!

ONE MORE THING! YOU'LL SEE A CLASSIFICATION LIKE THIS ON THE INTRODUCTION PAGE FOR EACH MODEL. THIS TELLS YOU HOW COMPLEX THE MODEL IS.



HOW DIFFICULT THE MODEL IS TO BUILD

HOW MANY WORKING FUNCTIONS IT HAS

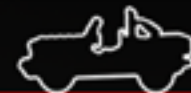
HOW MANY PIECES ARE NEEDED



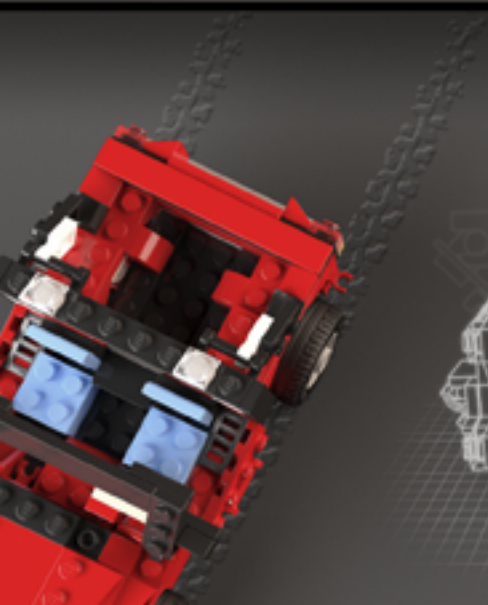
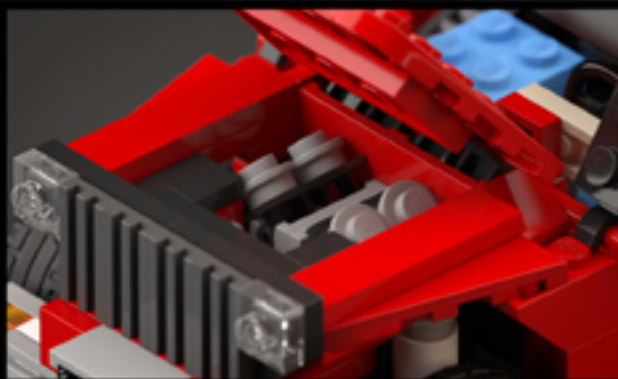
LET'S GO!



# 01 OFF-ROADER



Complexity  
Functions  
Pieces



## OFF-ROADER

Design notes: wide wheelbase, high clearance, exposed shock absorbers, front-bumper winch, spotlights

### Technical specifications:

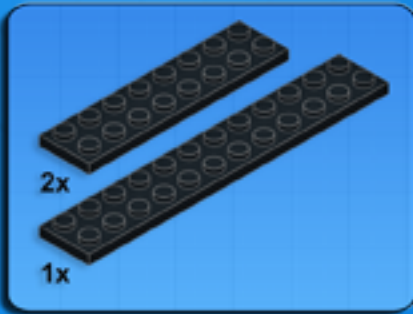
Dimensions (l × w × h): 20 × 10 × 10 studs  
Wheelbase: 11 studs  
Axle width front/rear: 10/10 studs

Features: hinged hood, V4 engine, rear accessory clips

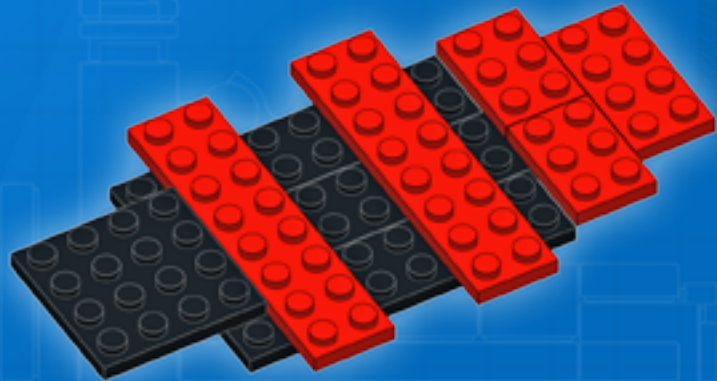
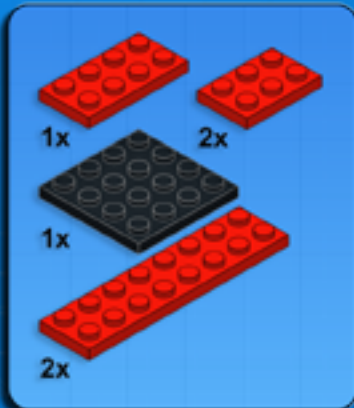




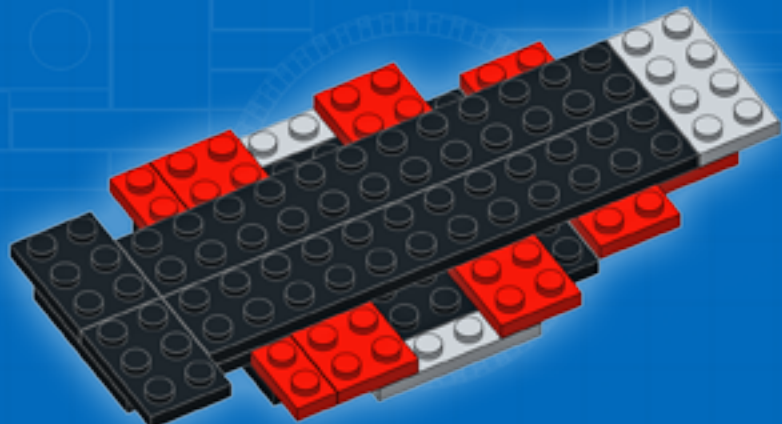
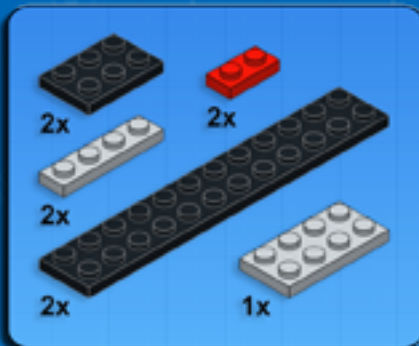
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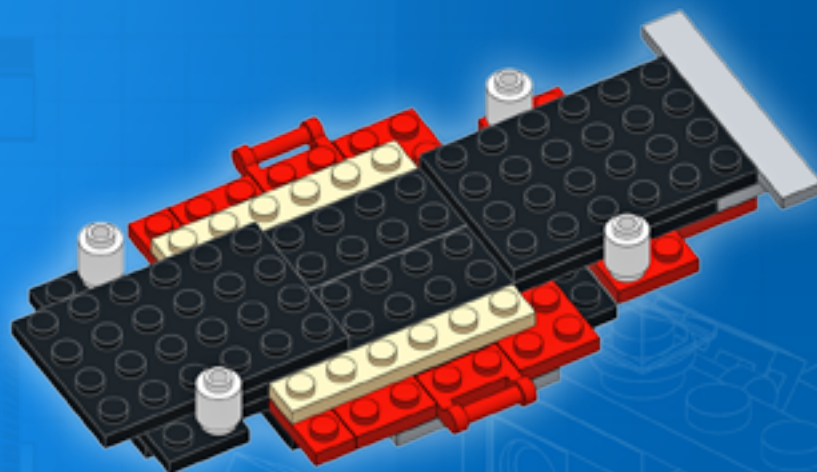


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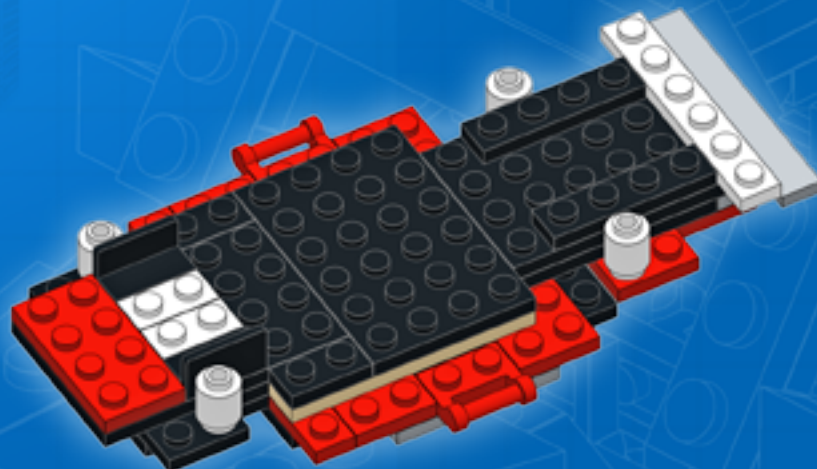
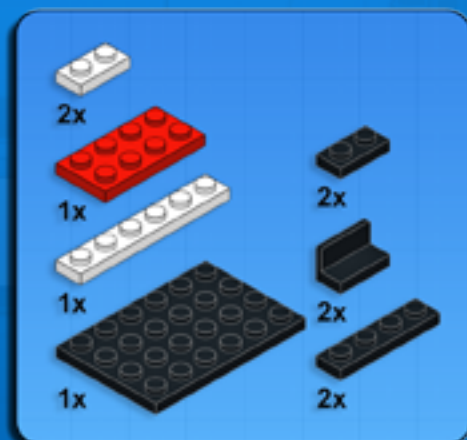




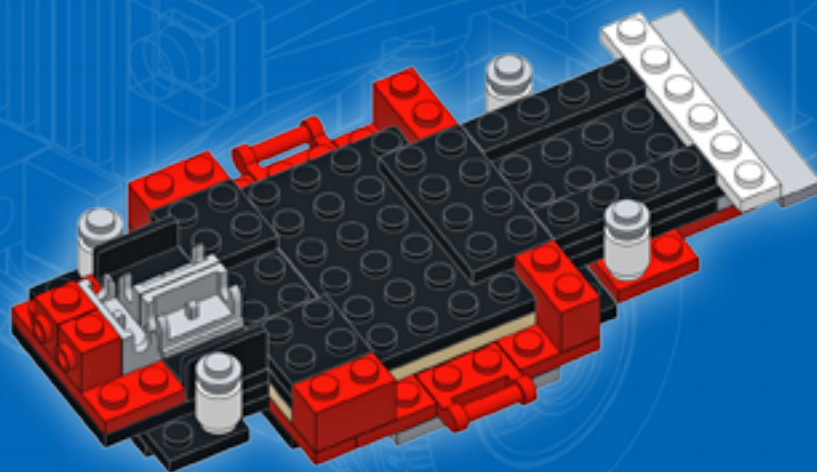
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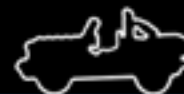


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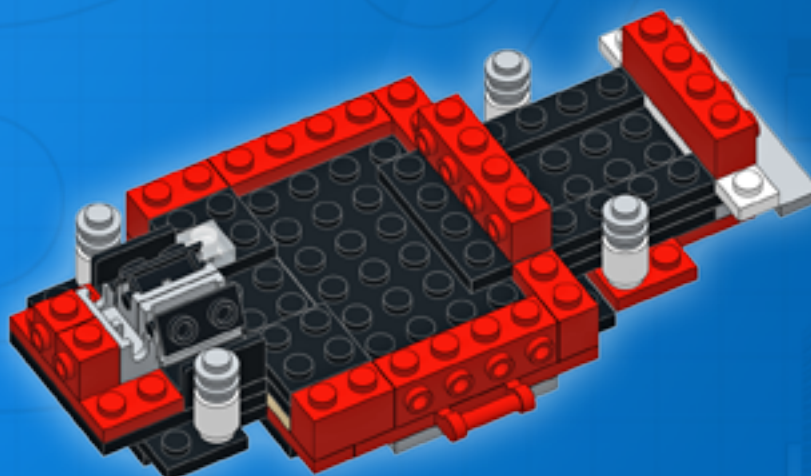


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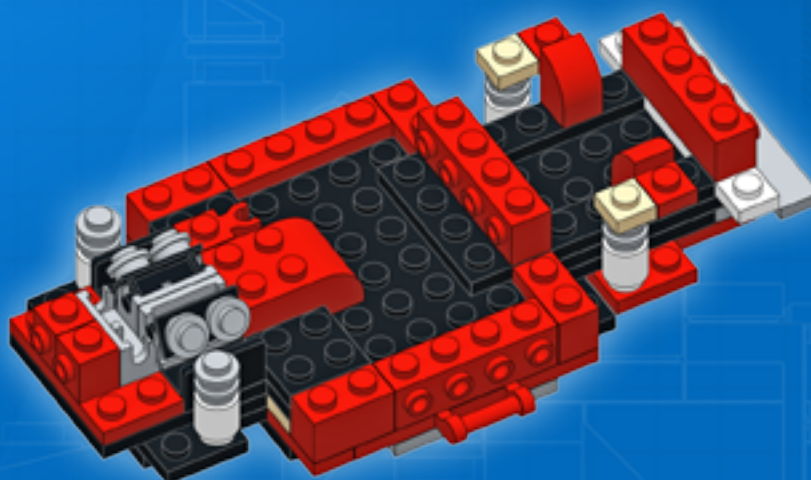




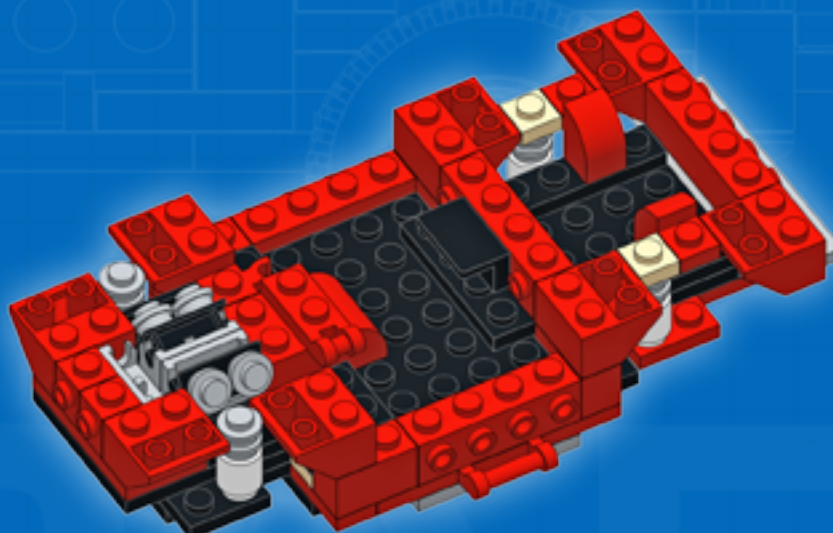
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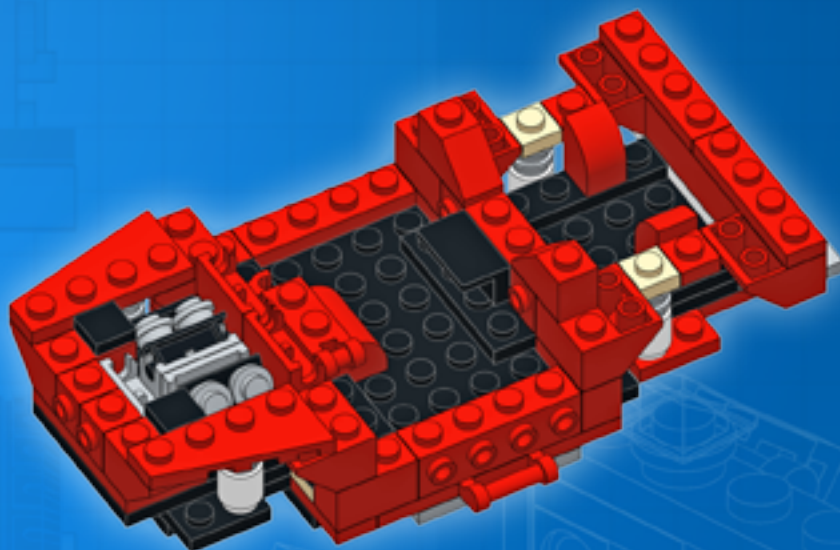
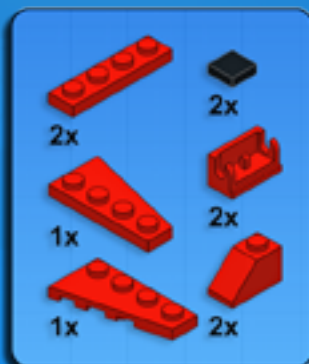


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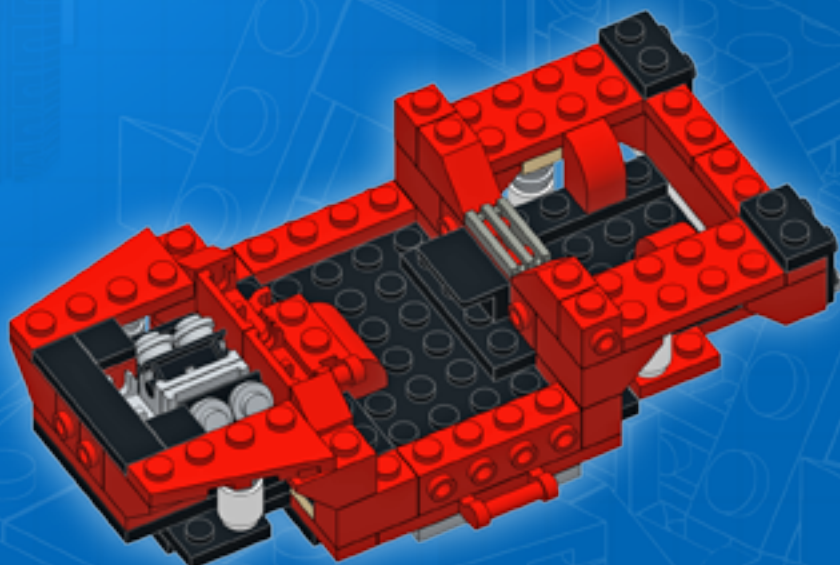




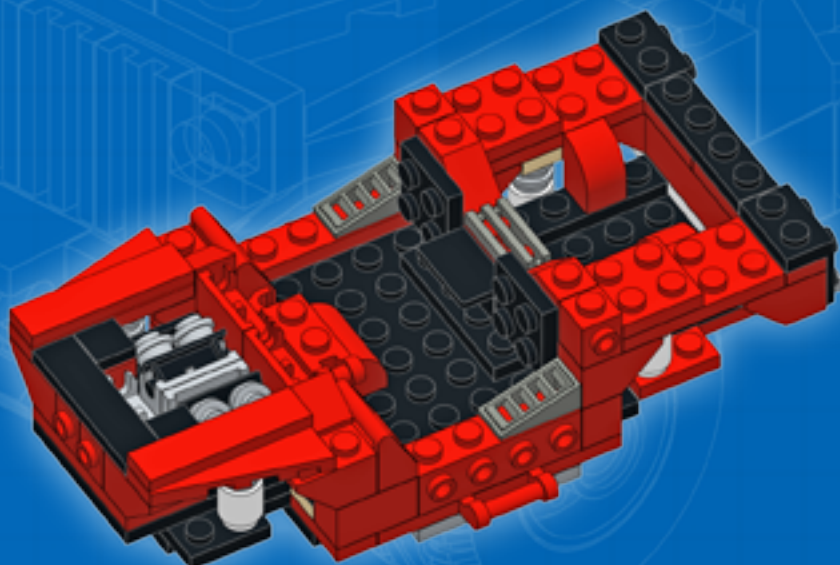
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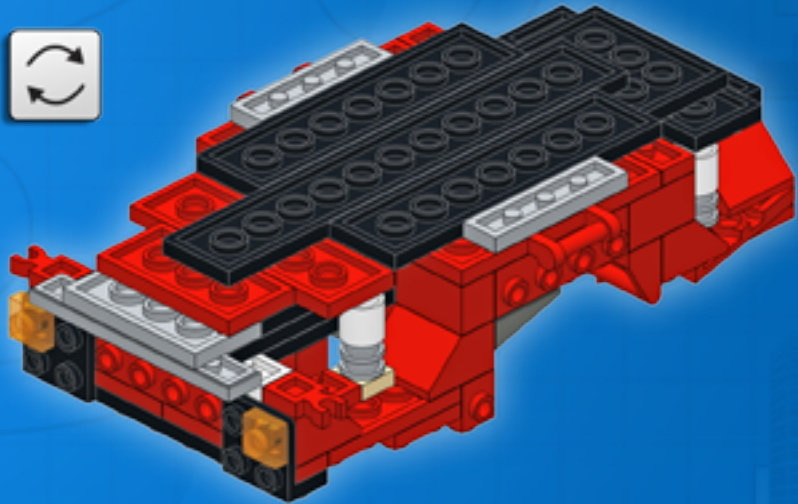
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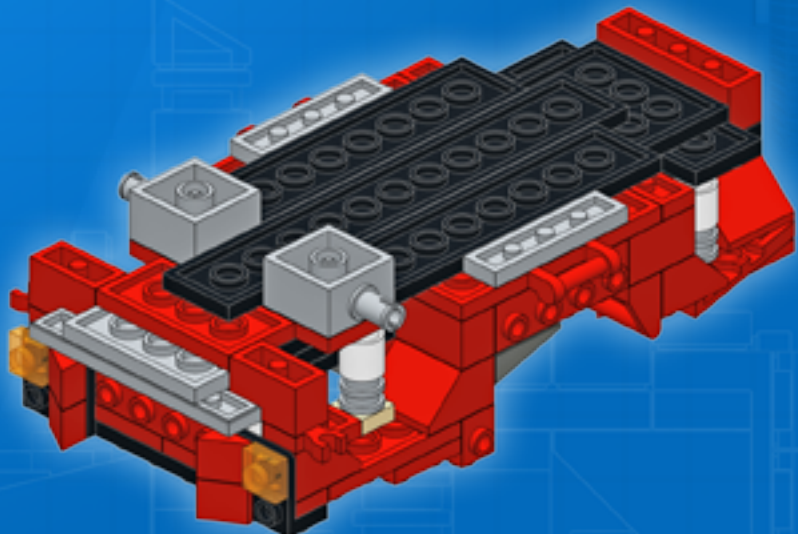




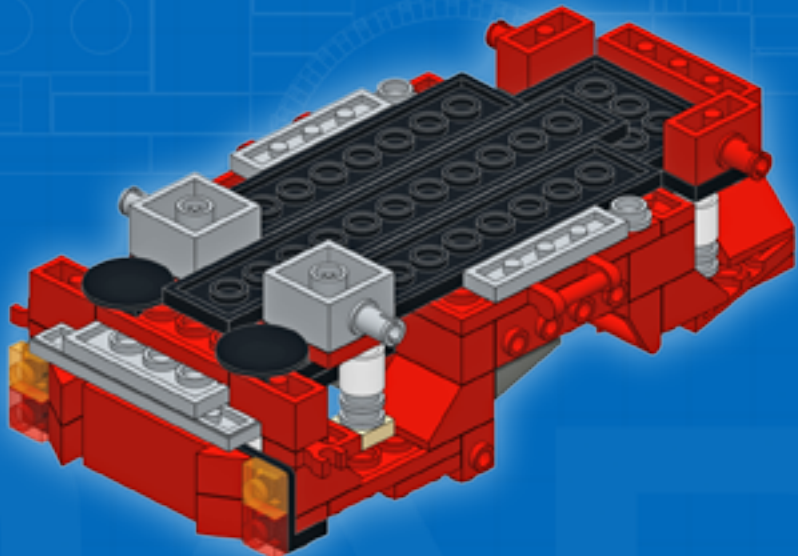
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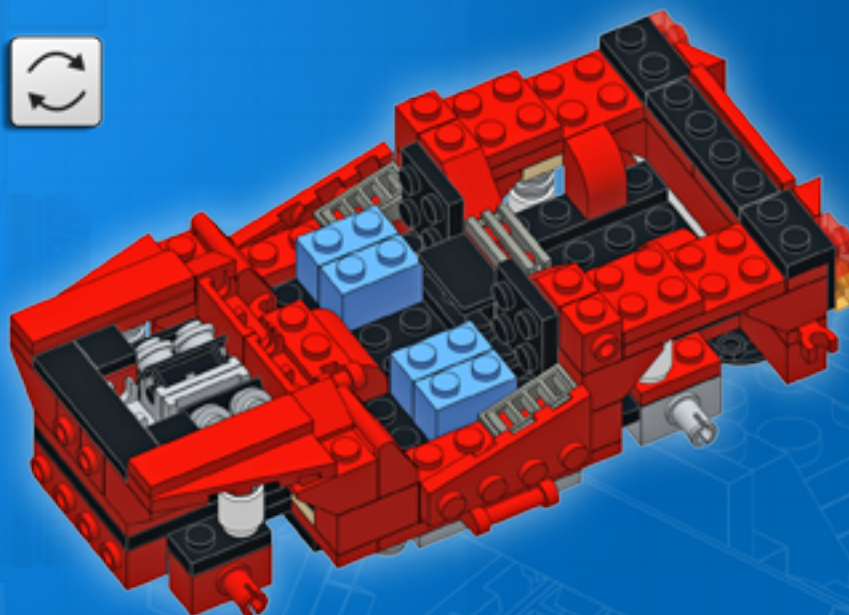
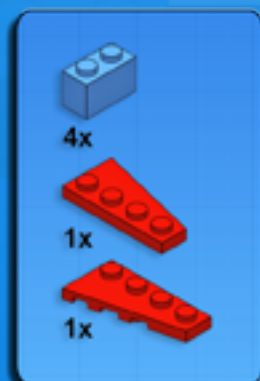
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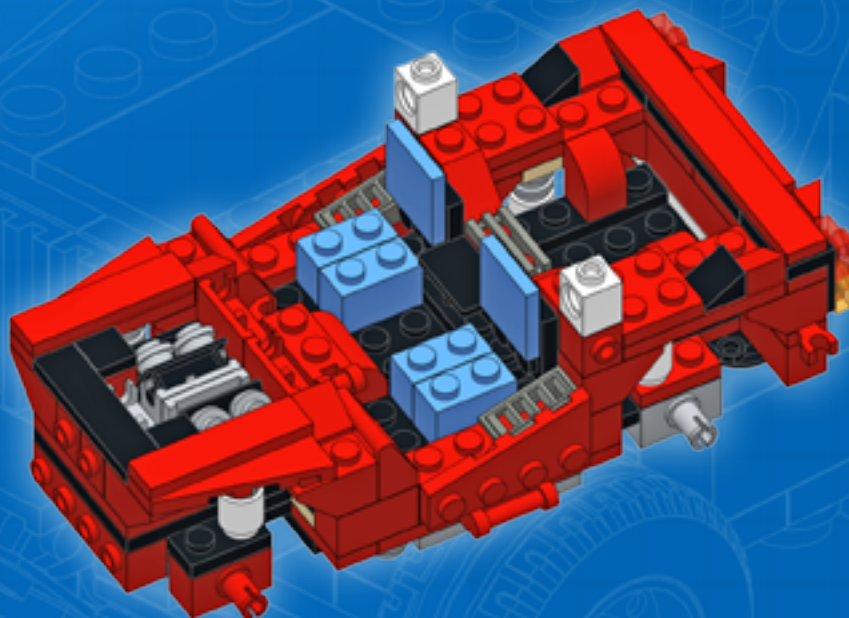
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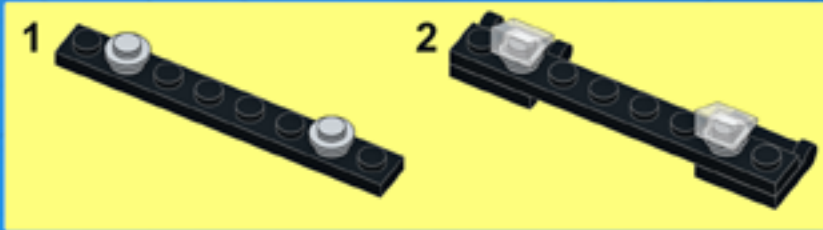
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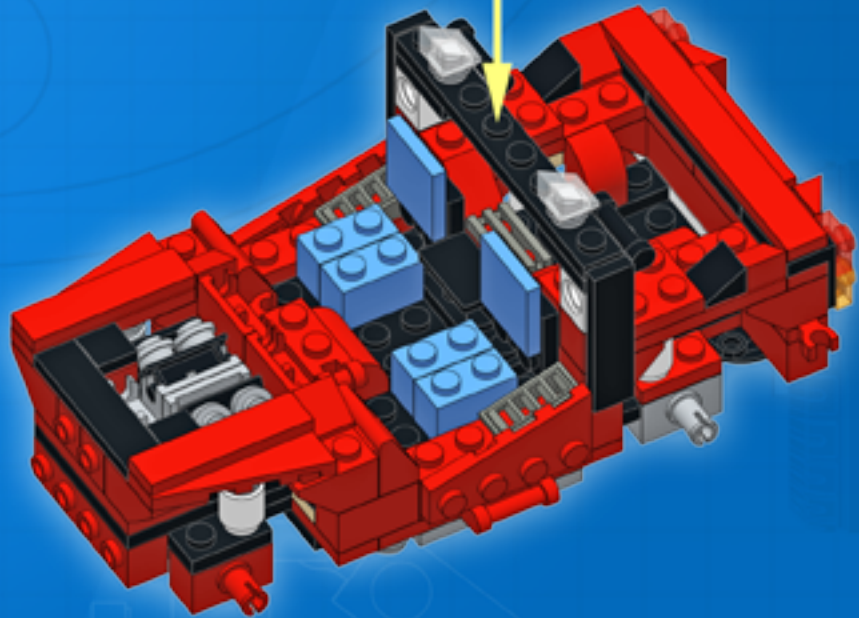
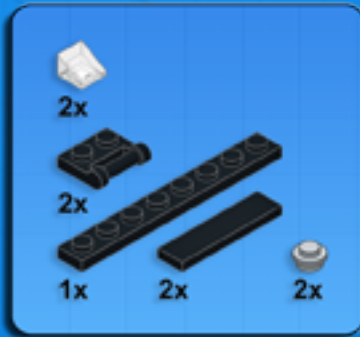
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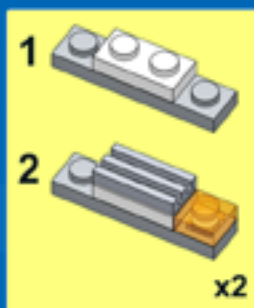
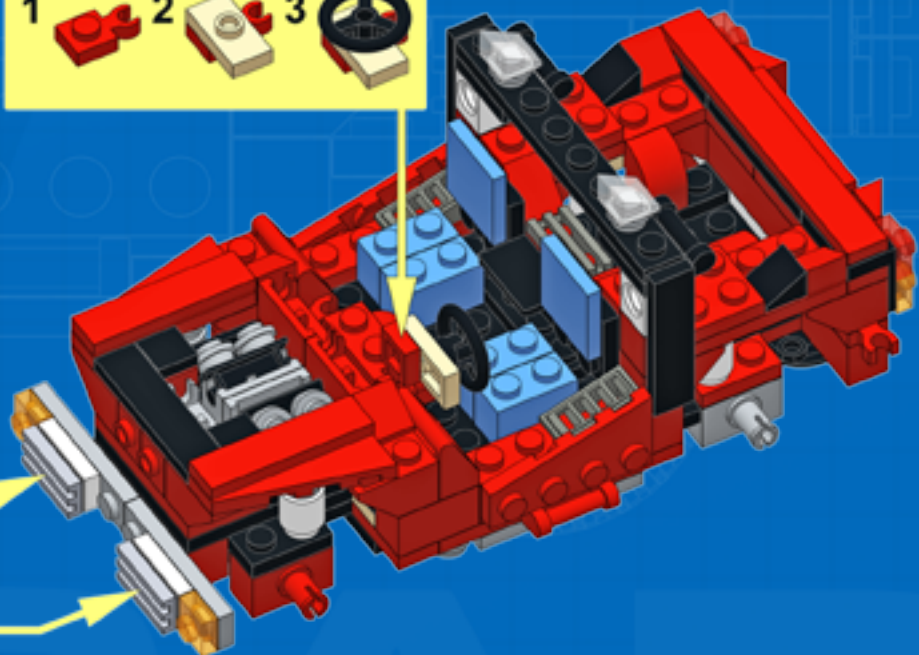
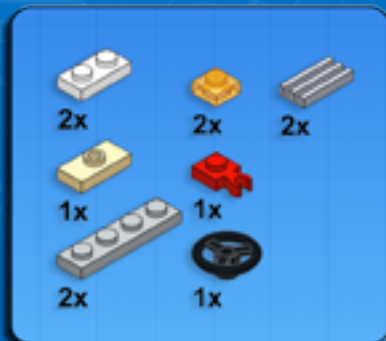




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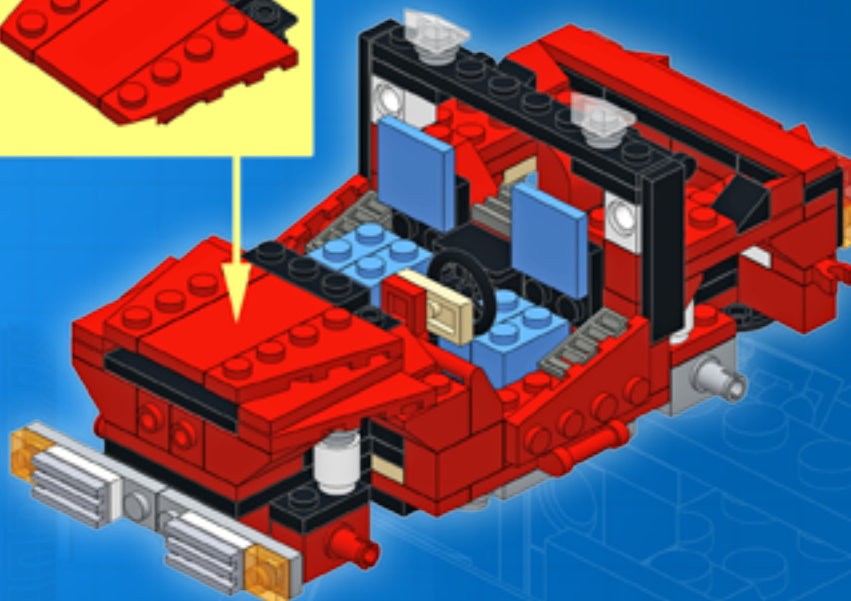
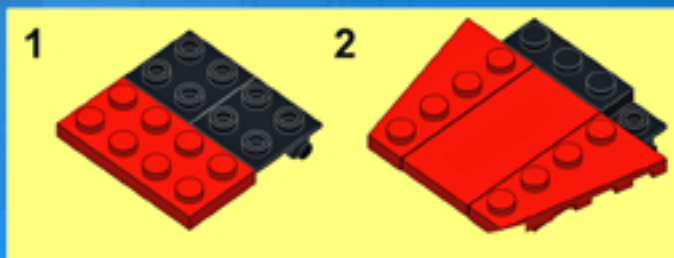
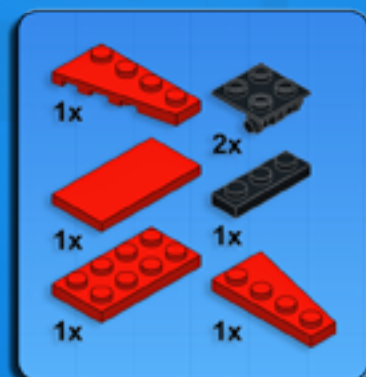


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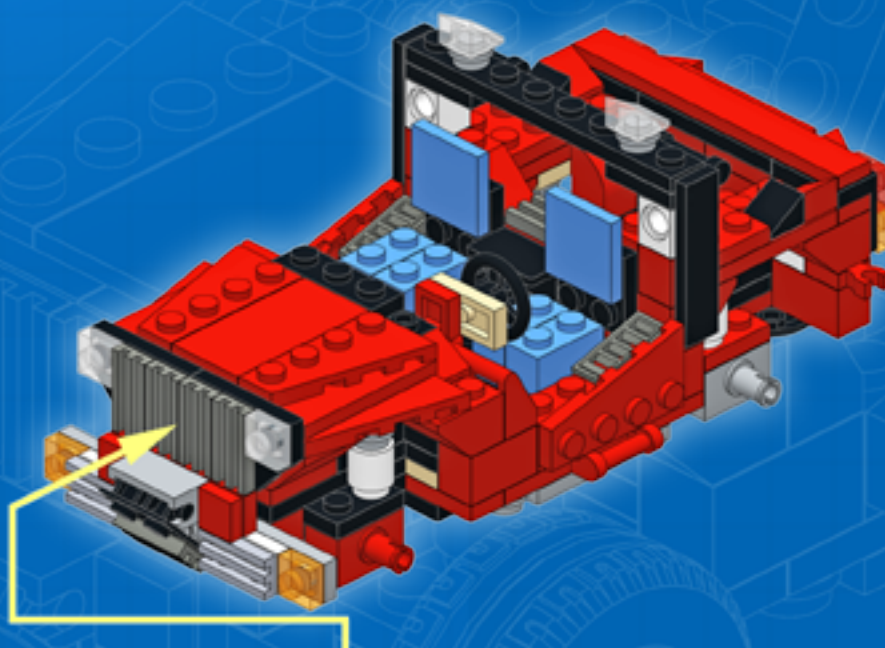
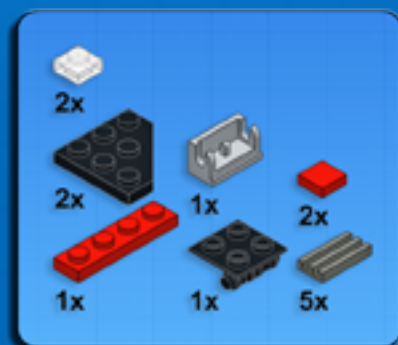


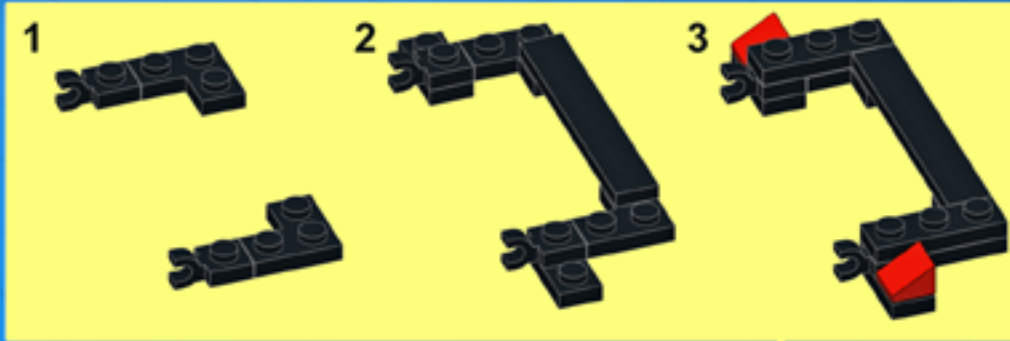


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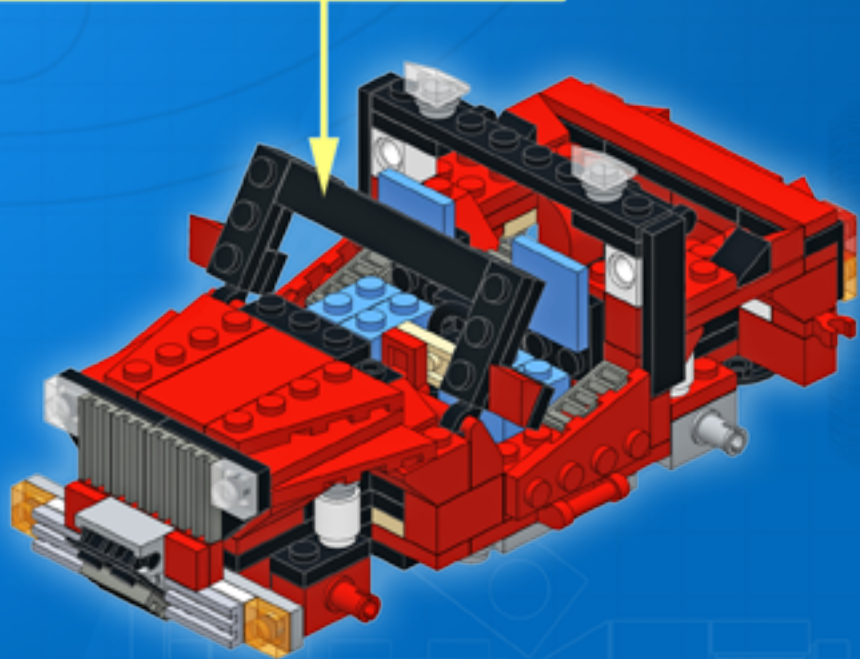


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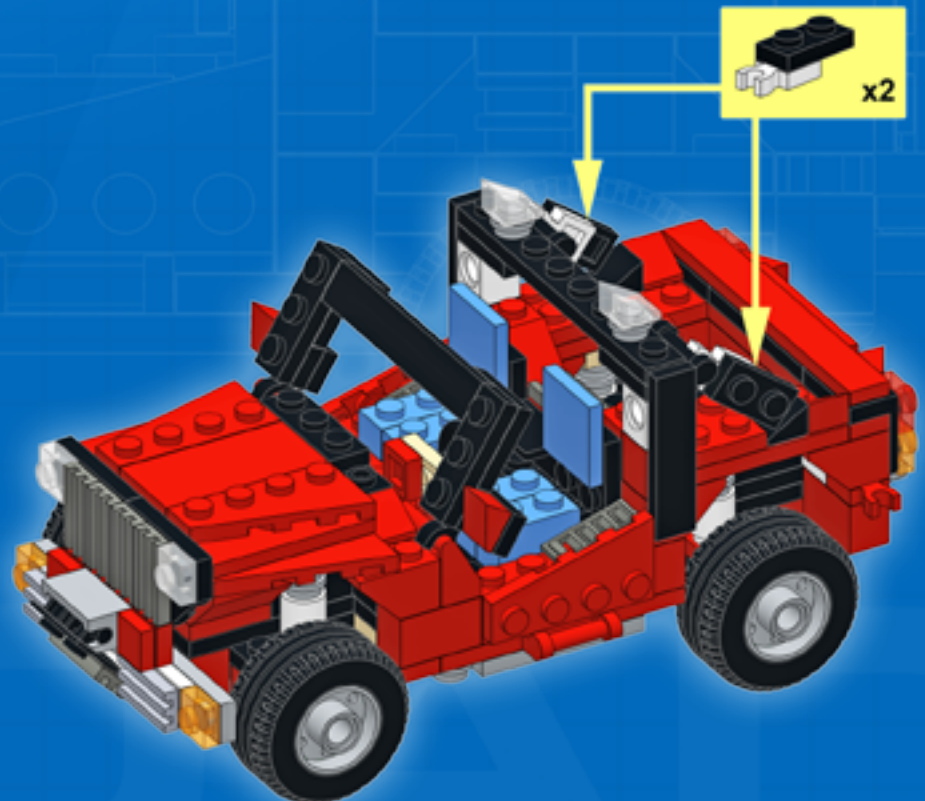




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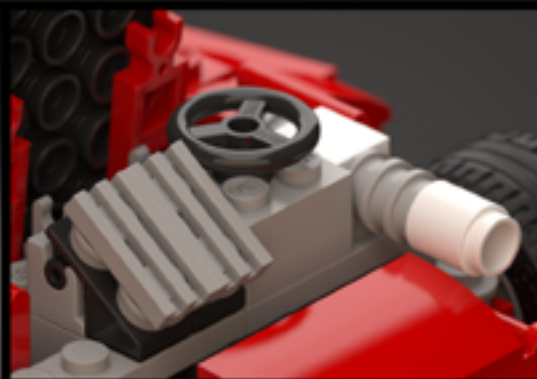
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Complexity  
Functions  
Pieces



## GO-KART

Design notes: wide and low chassis, single-cylinder engine, large seat, small wheels, gas and brake pedals

### Technical specifications:

Dimensions (l × w × h): 21 × 12 × 9 studs

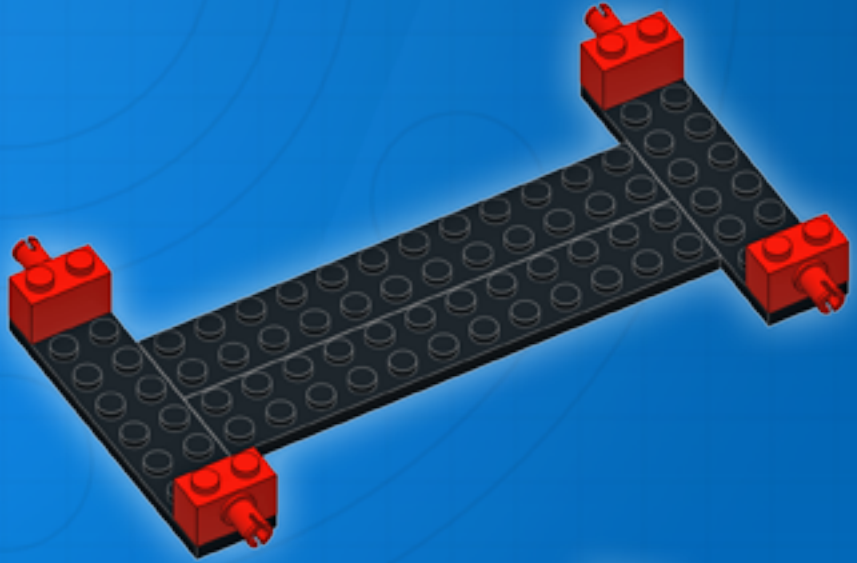
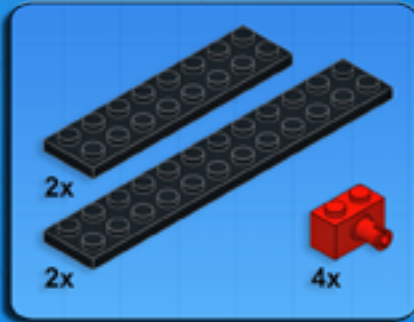
Wheelbase: 14 studs

Axle width front/rear: 12/12 studs

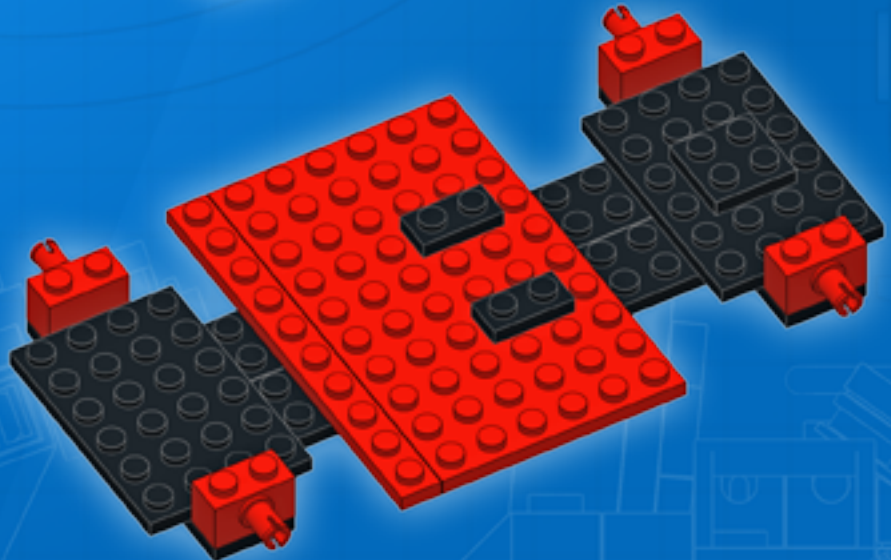
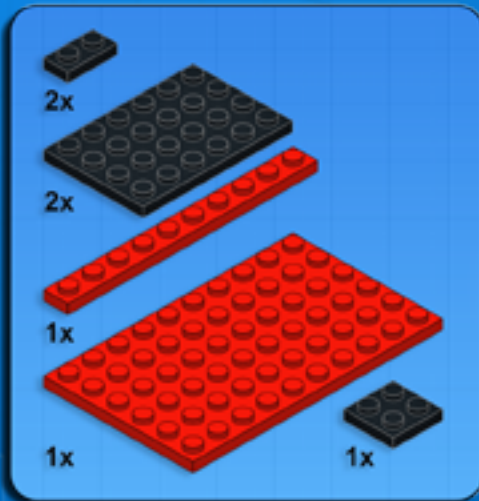




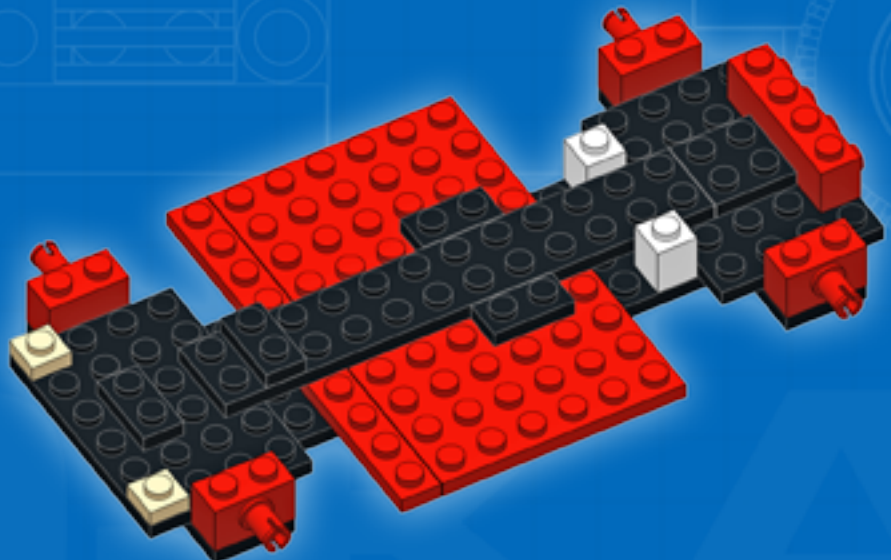
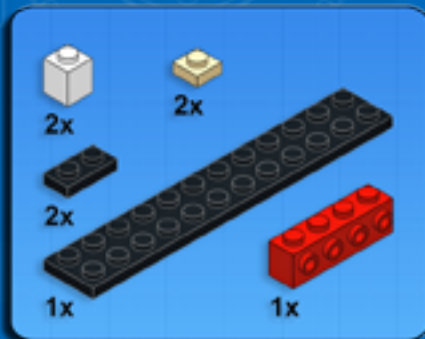
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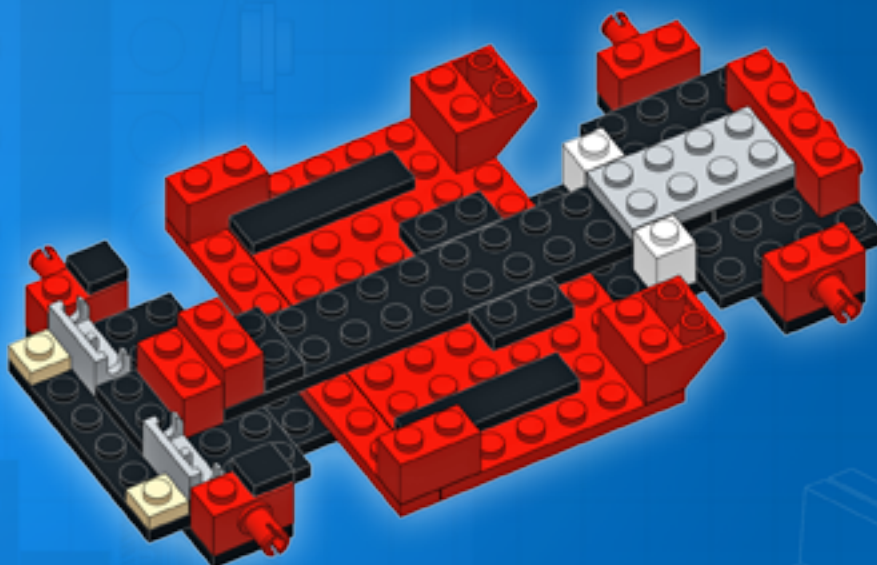
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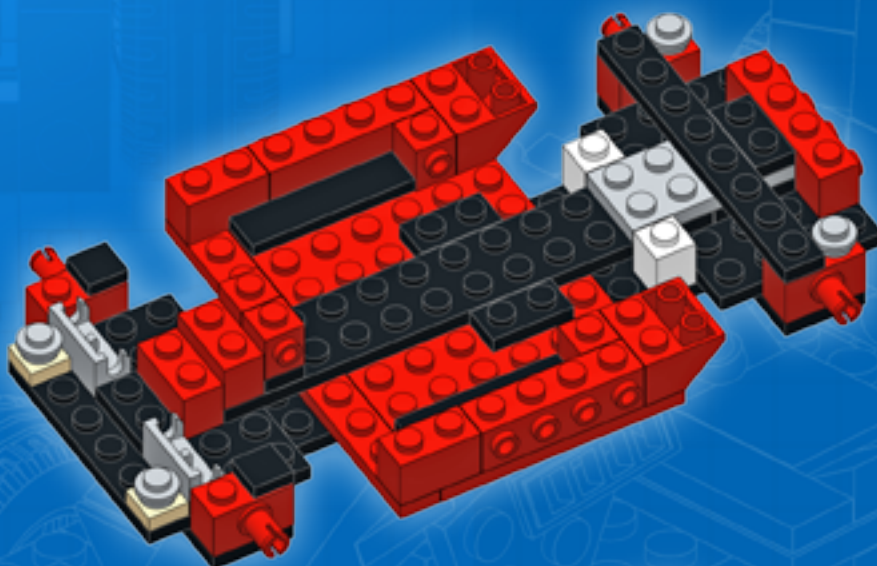
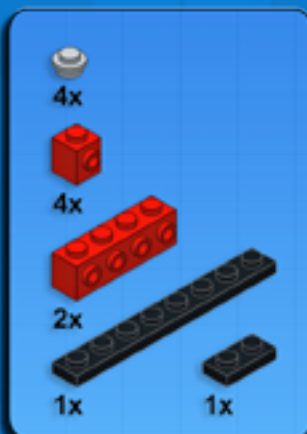
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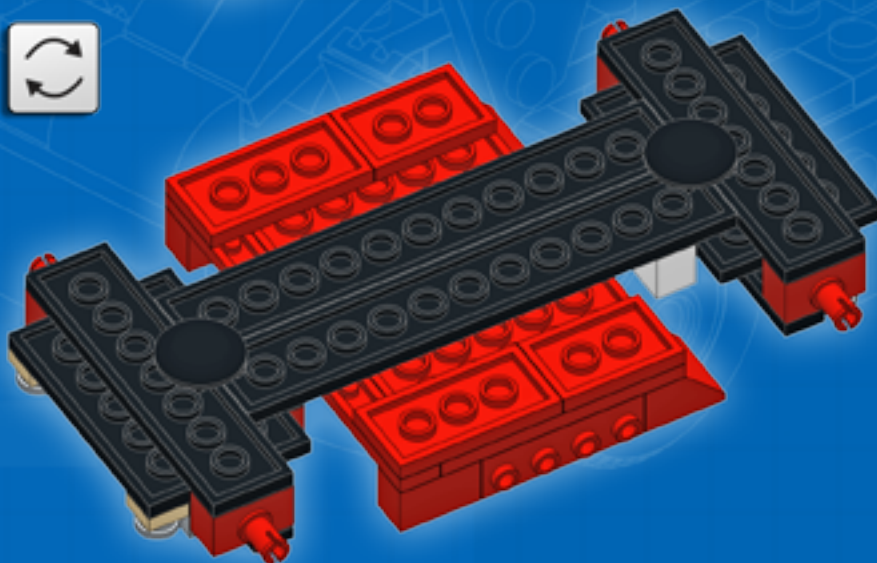
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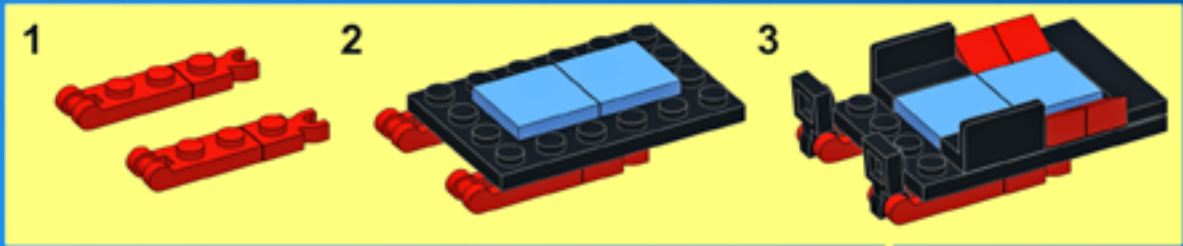
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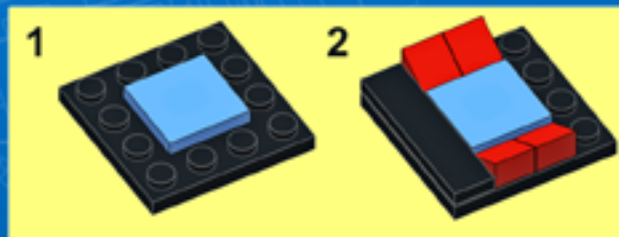
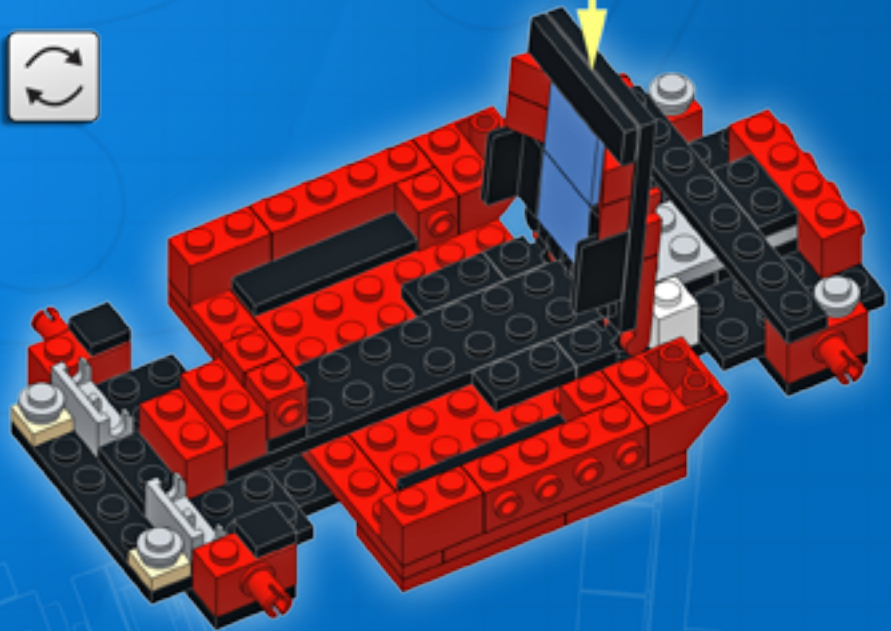
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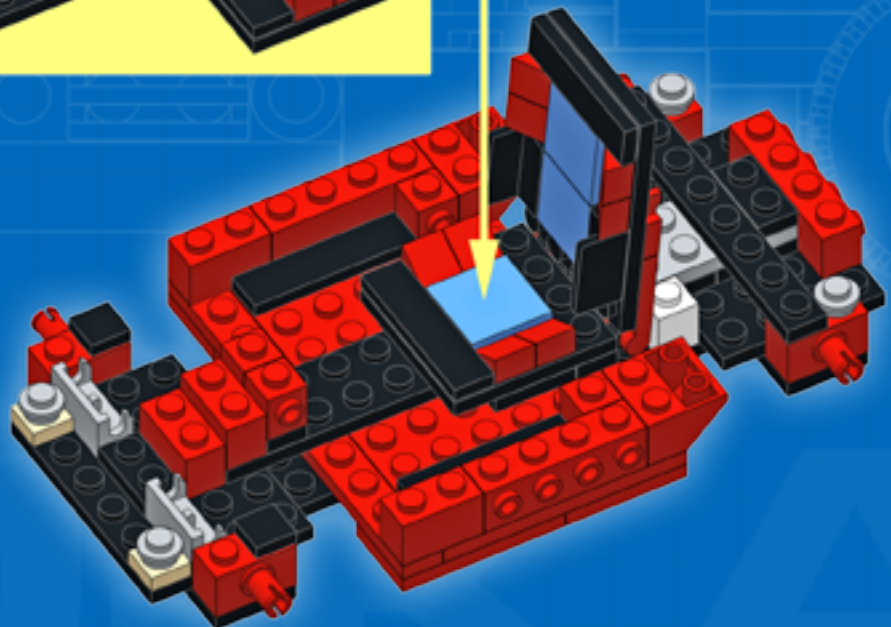




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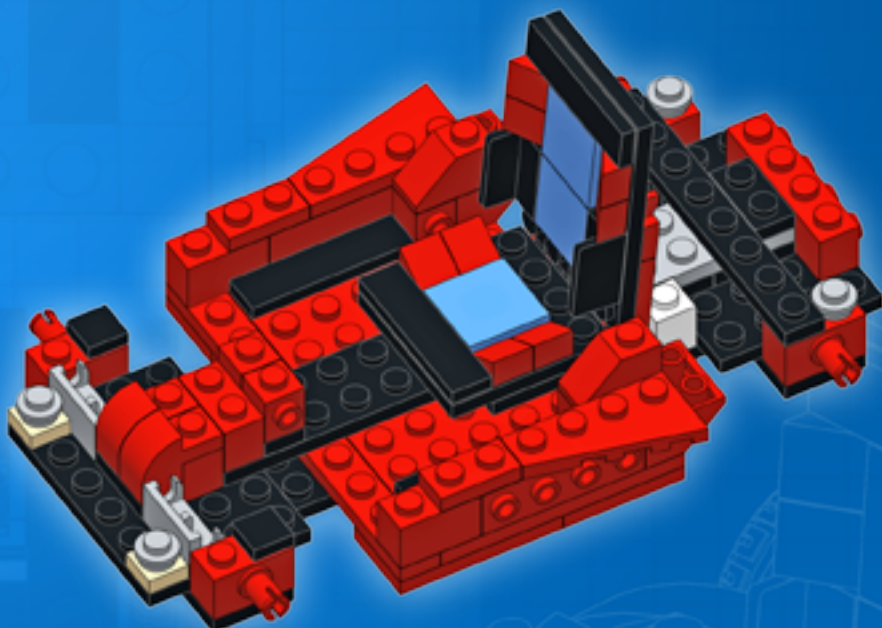
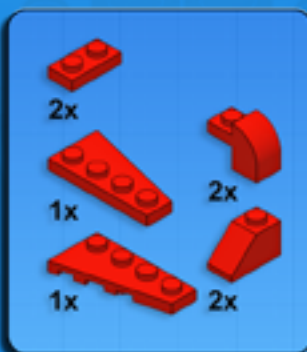


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9

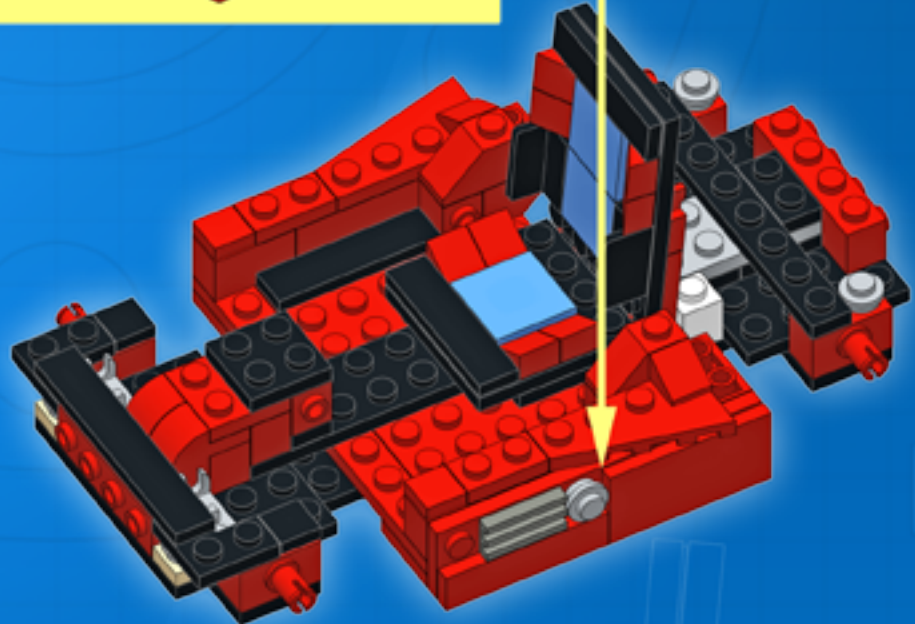
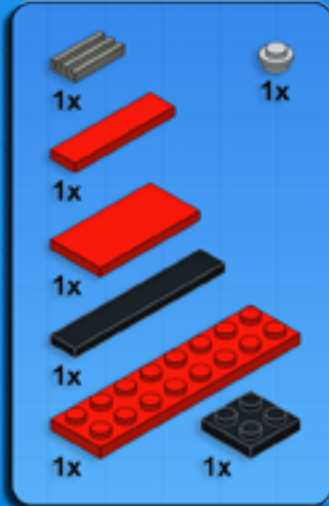
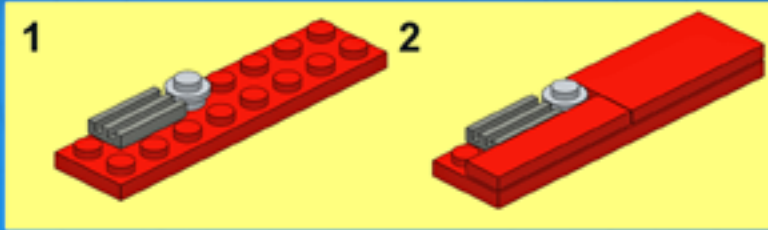


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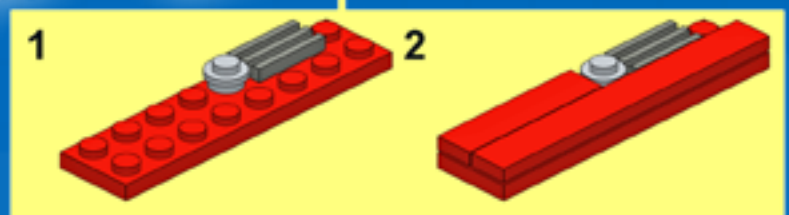
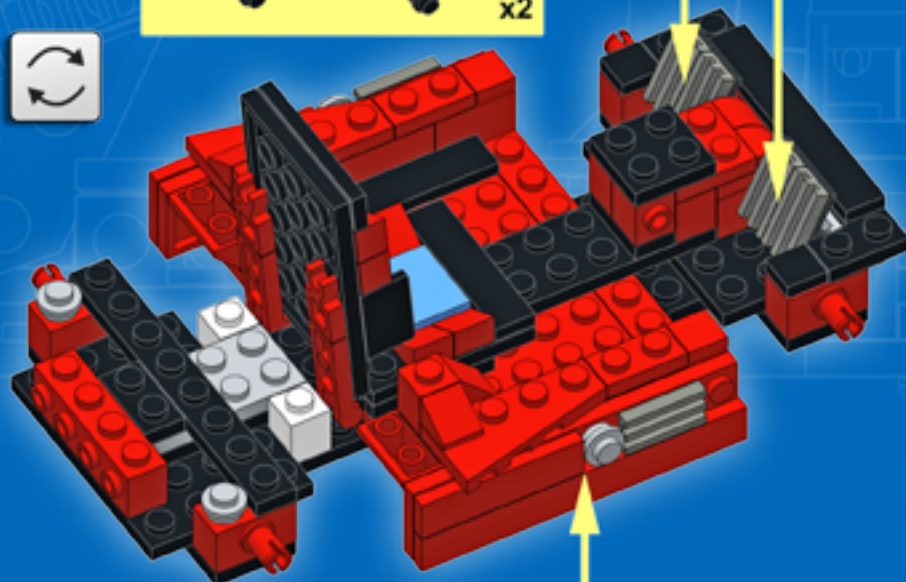
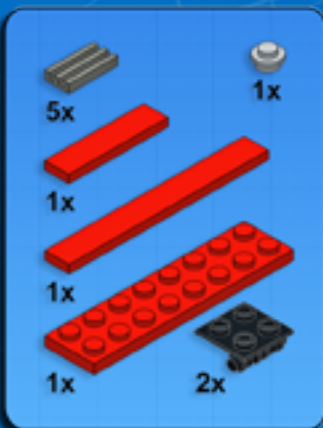




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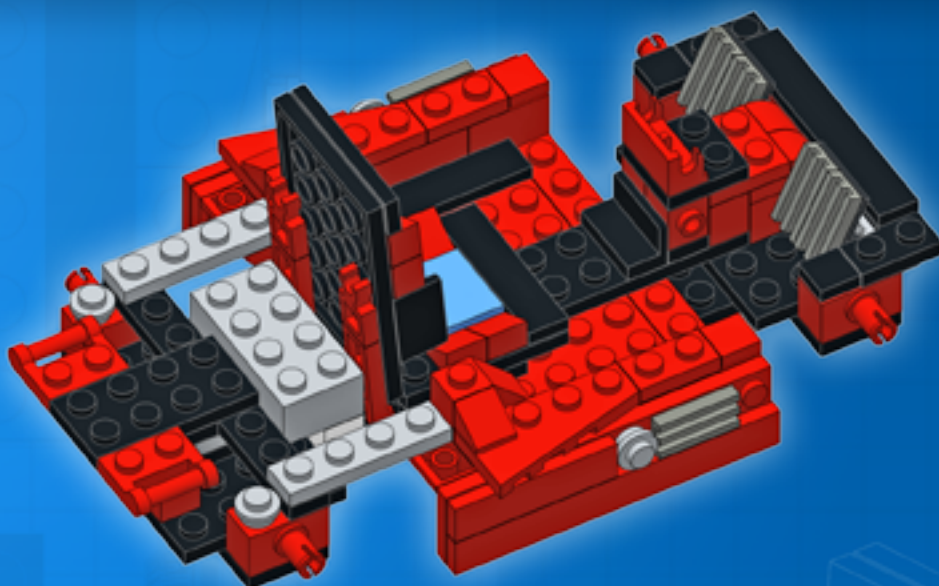
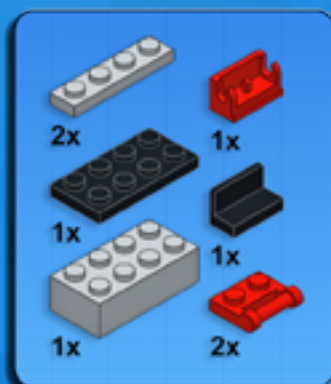


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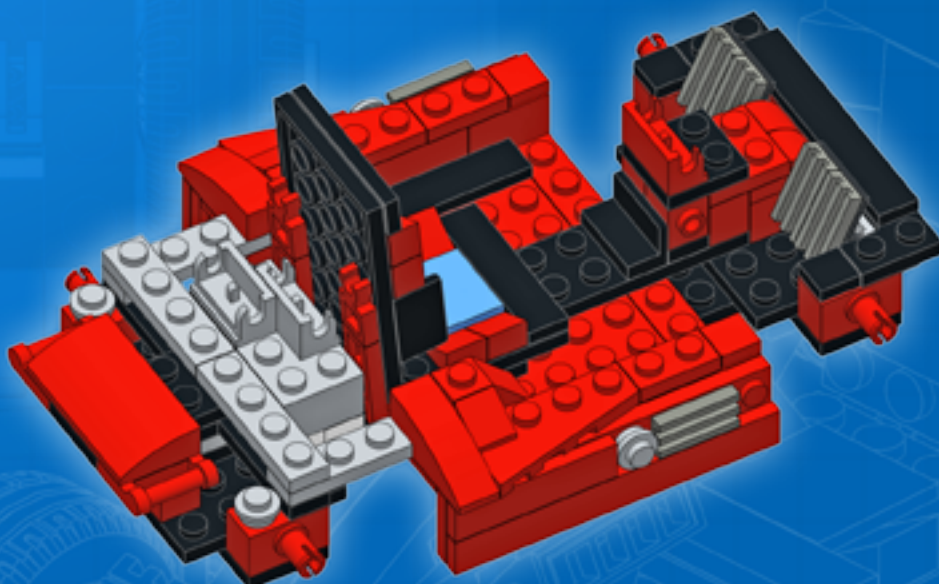
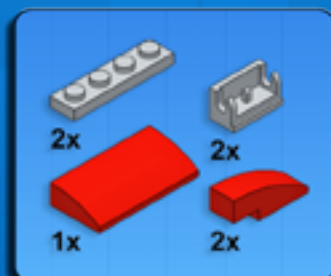




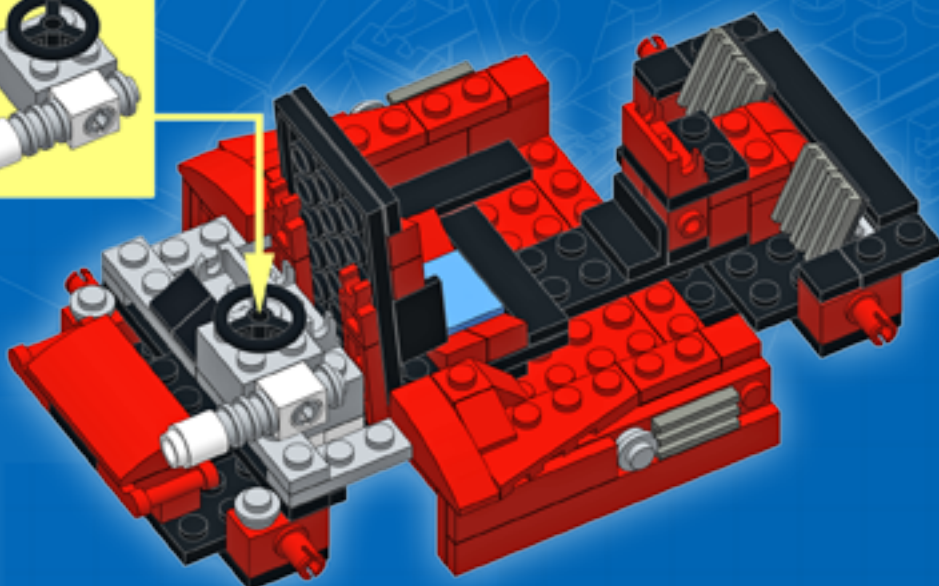
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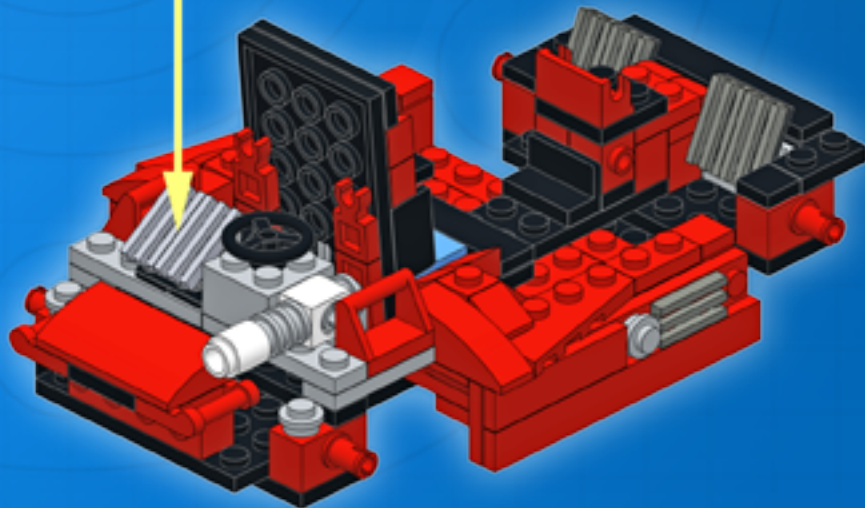
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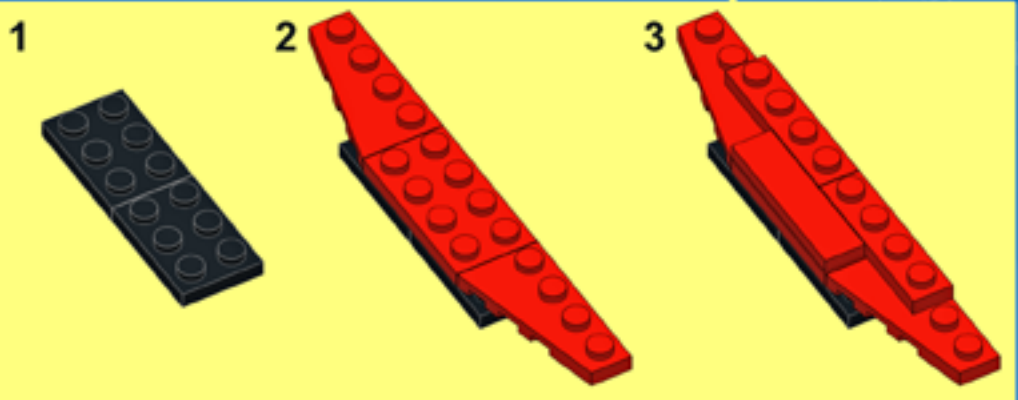
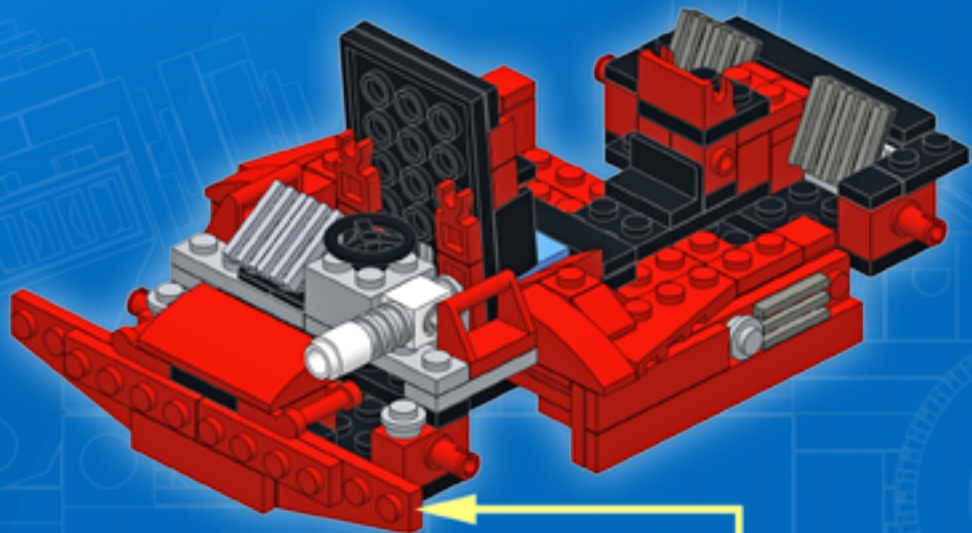




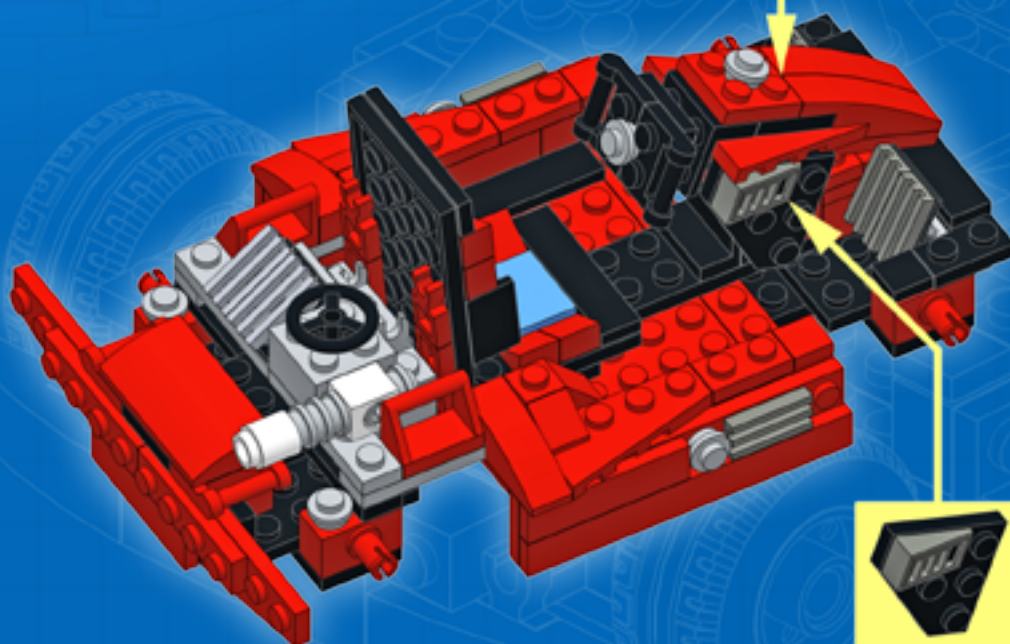
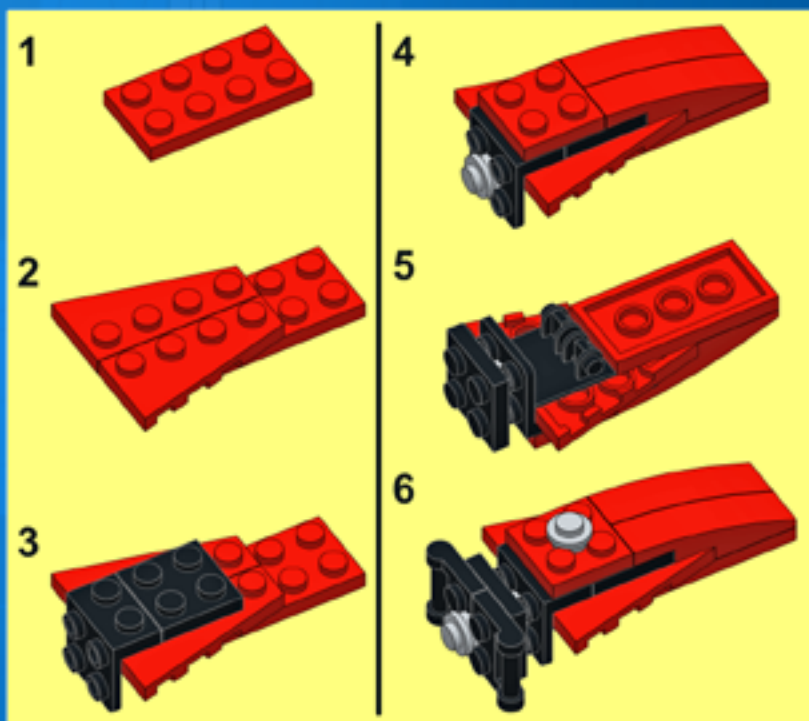
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17



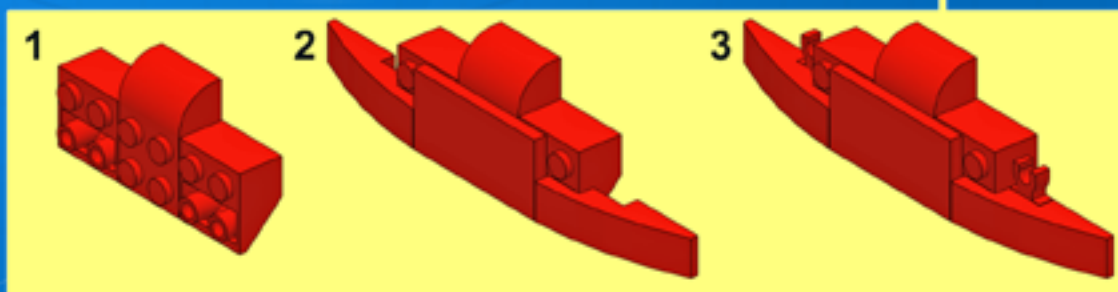
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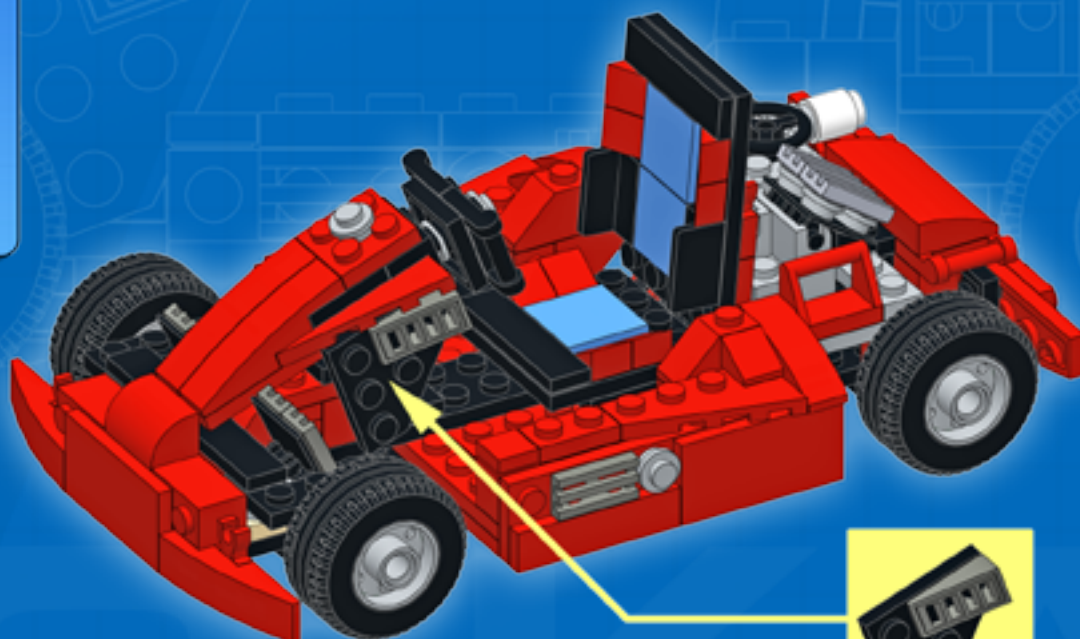




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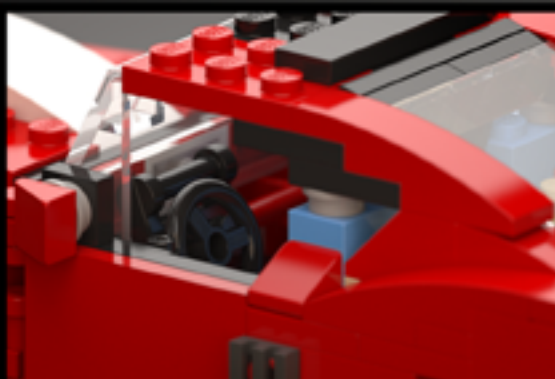
20







Complexity   
Functions   
Pieces 



## MUSCLE CAR

Design notes: fastback body design,  
hood scoop, exposed exhaust pipes

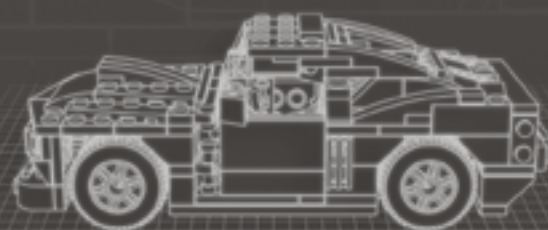
### Technical specifications:

Dimensions (l × w × h): 21 × 10 × 8 studs

Wheelbase: 12 studs

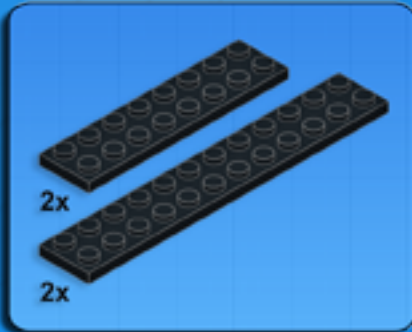
Axle width front/rear: 8/8 studs

Features: opening doors

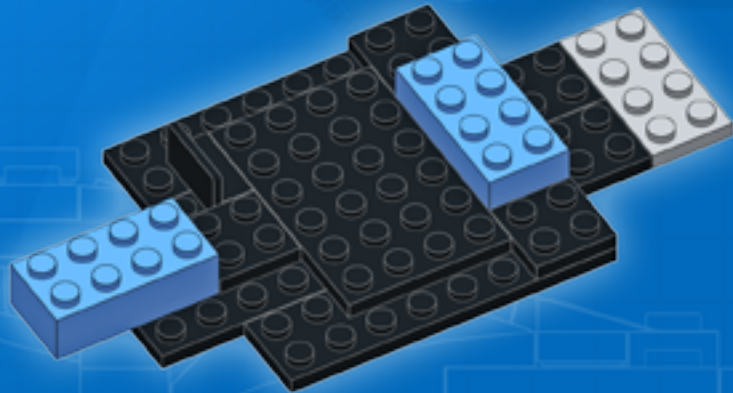
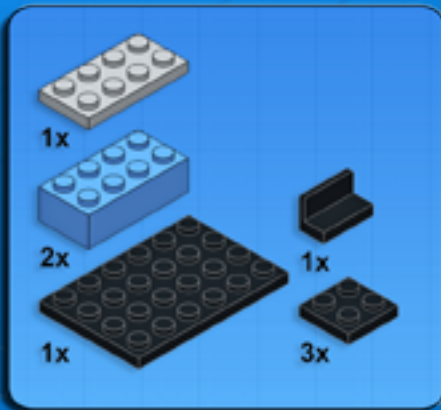




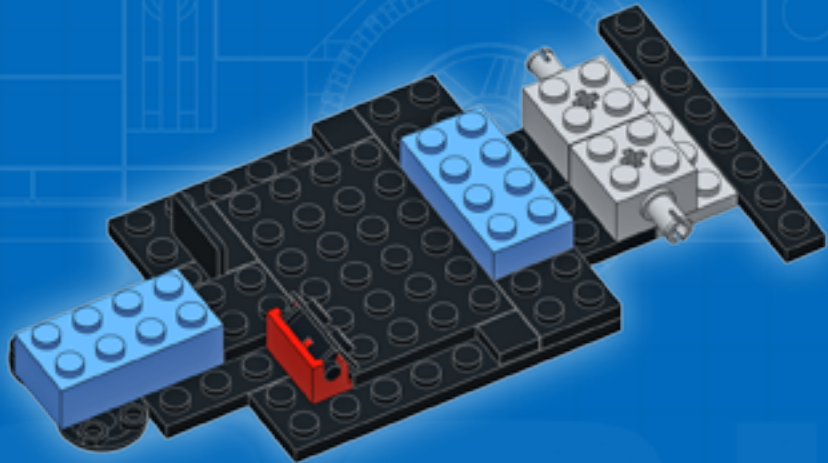
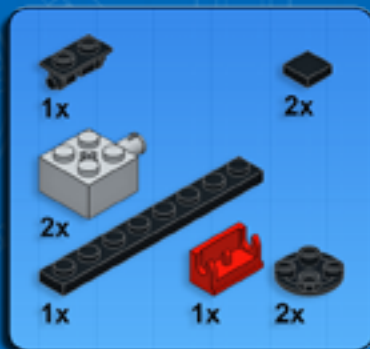
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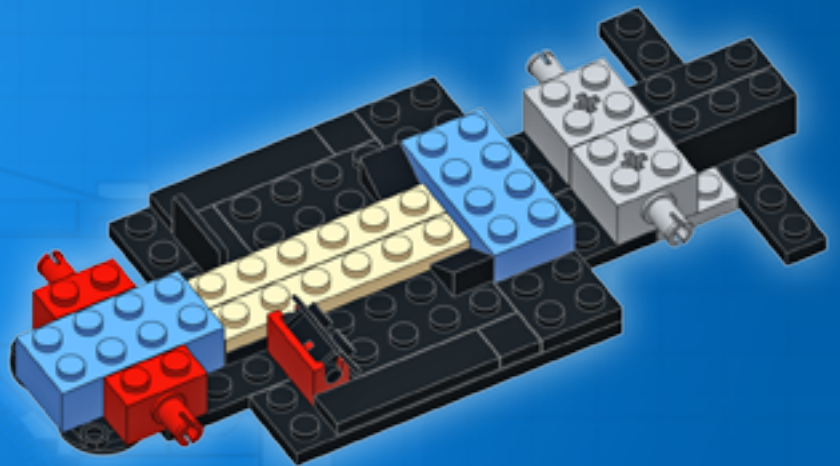
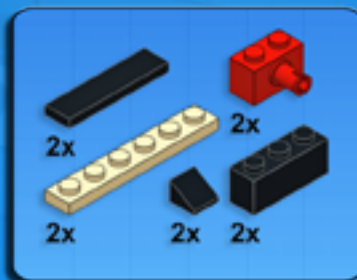


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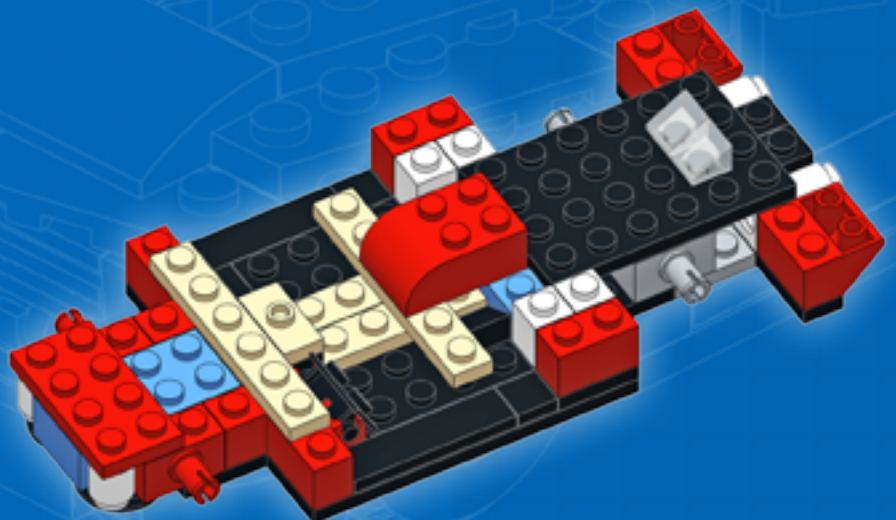
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5

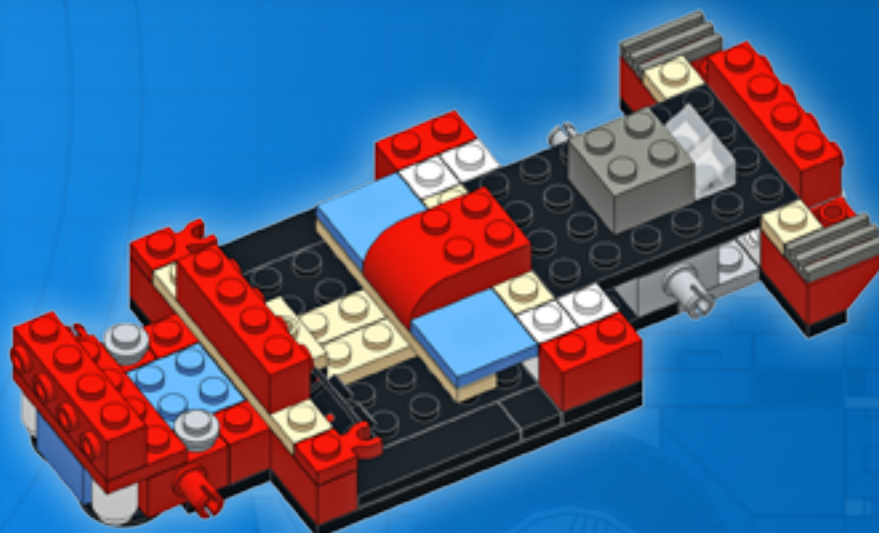


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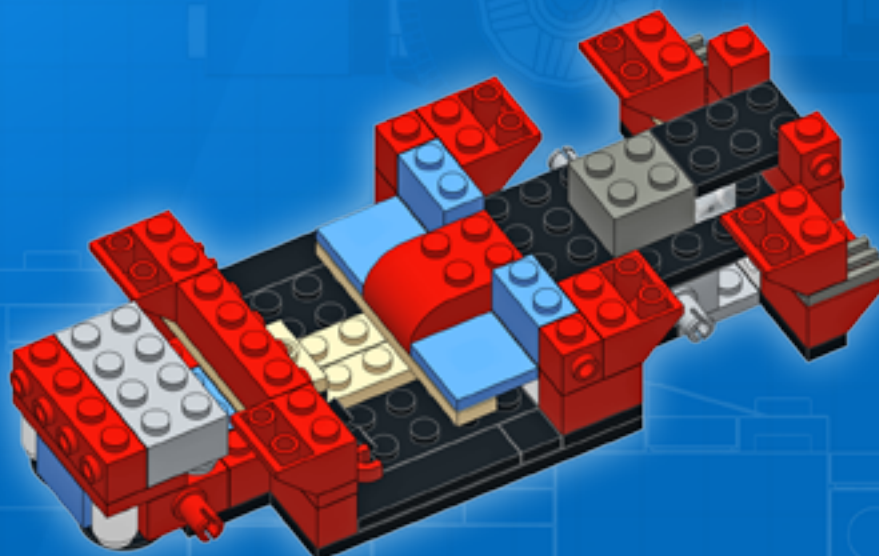




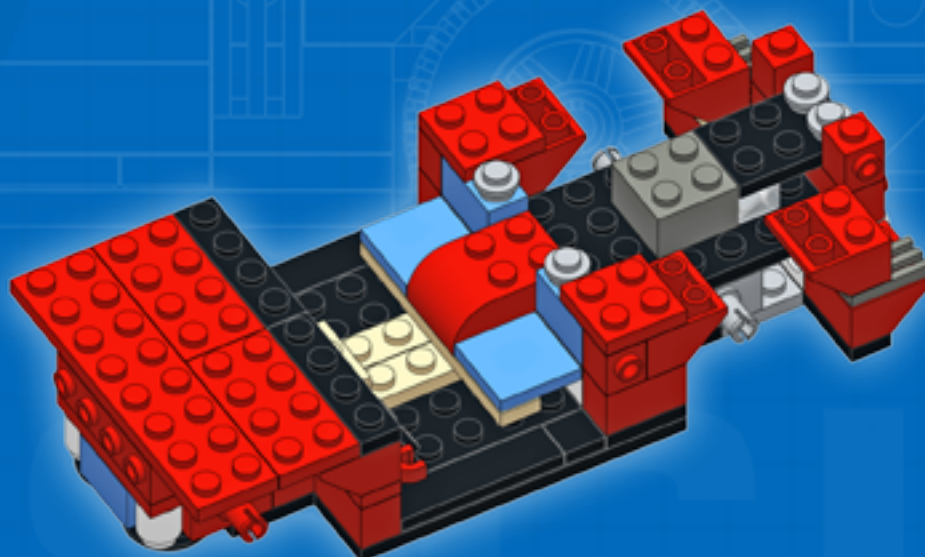
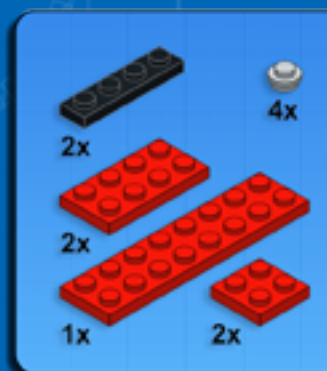
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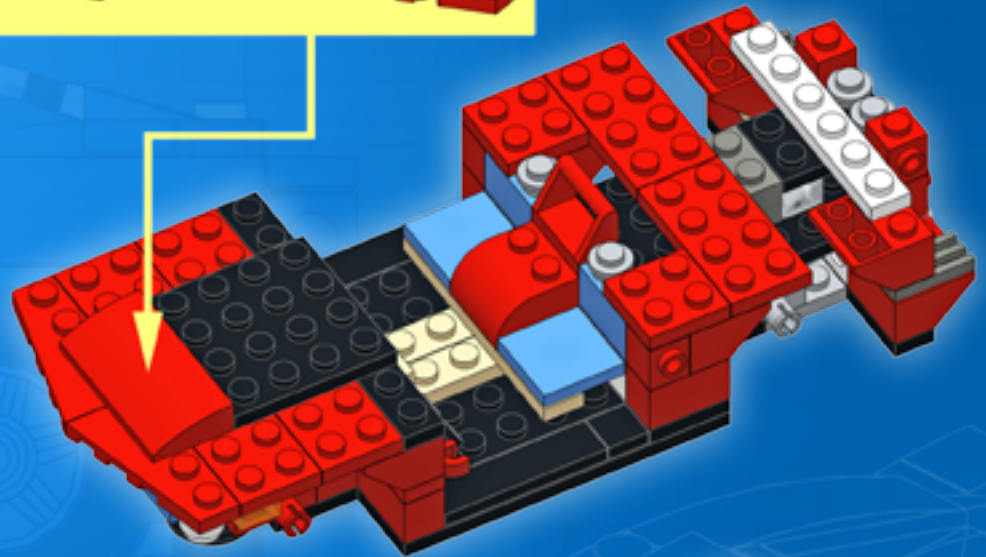
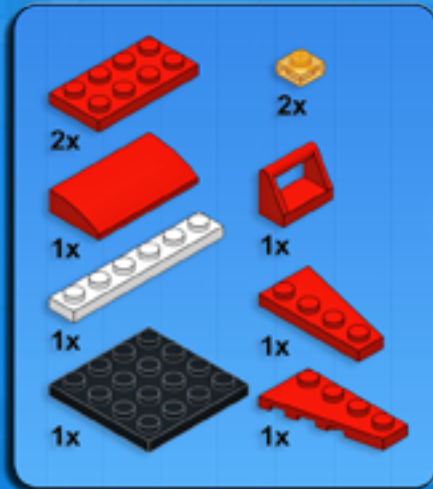
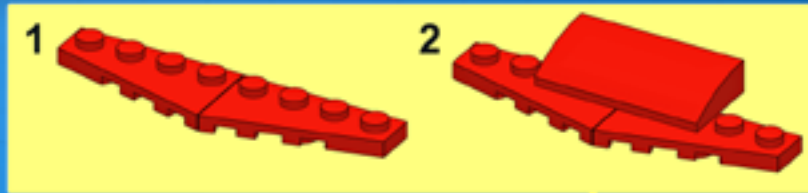


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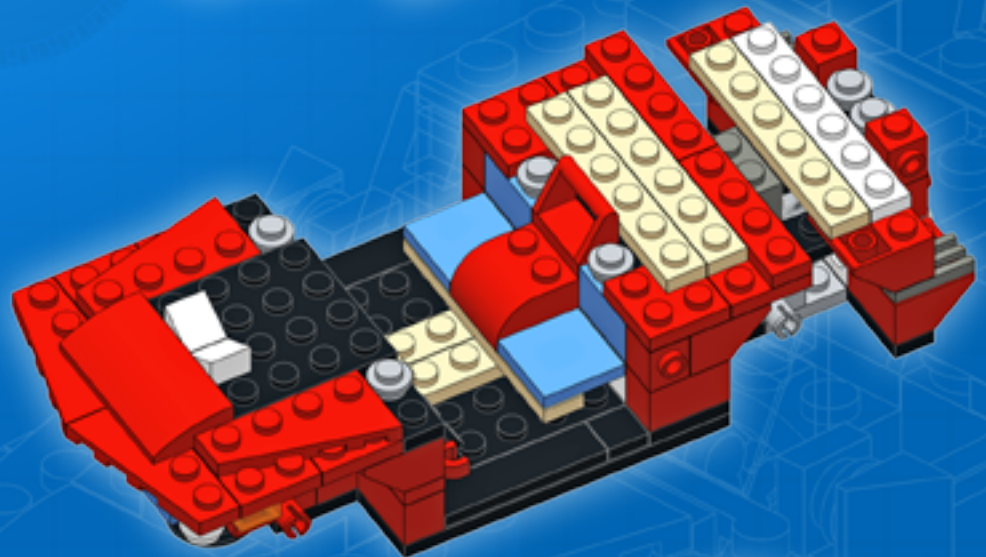
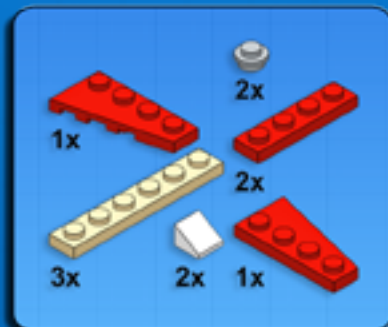




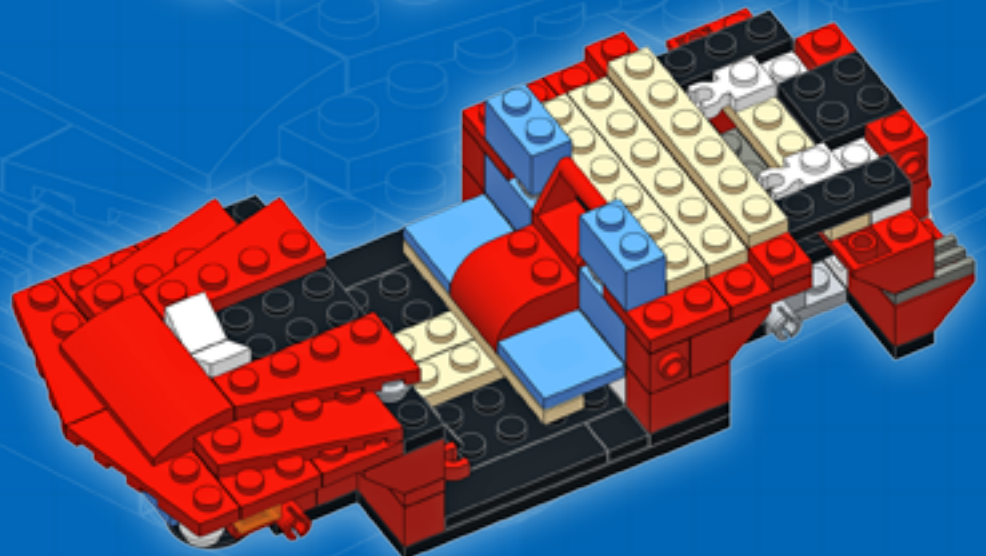
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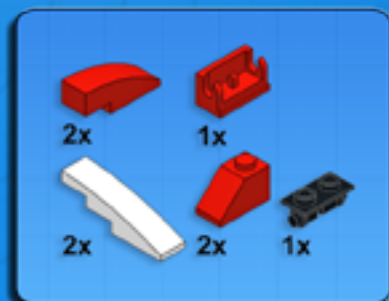


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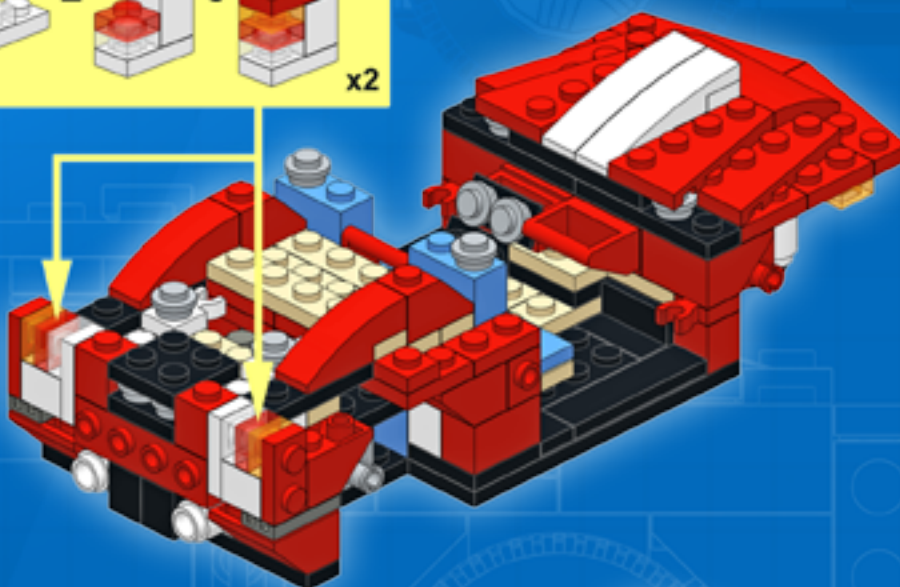




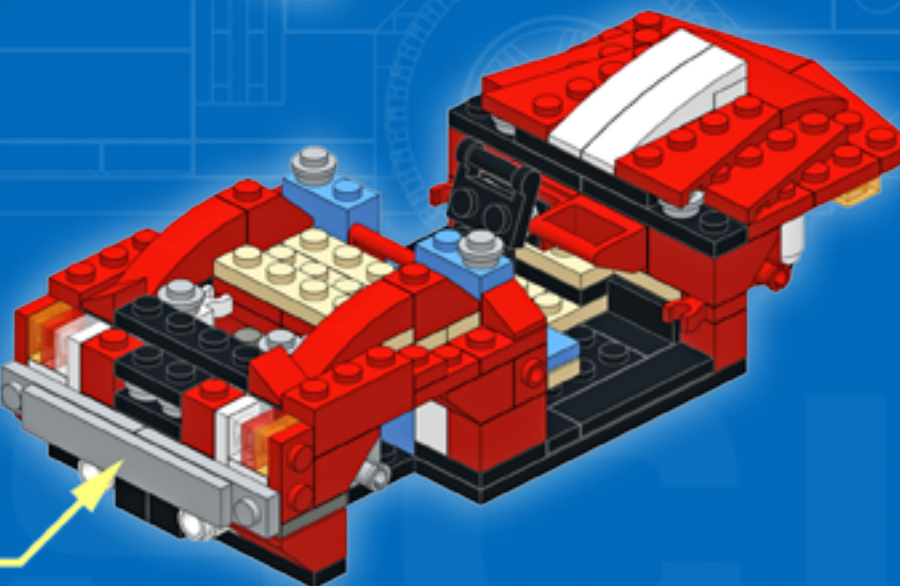
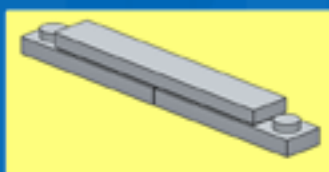
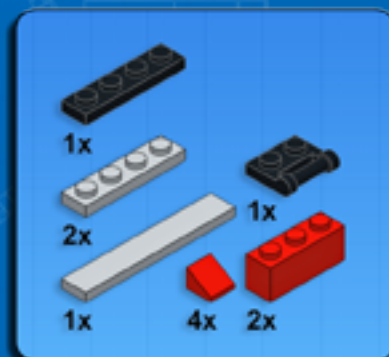
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**14**



**15**

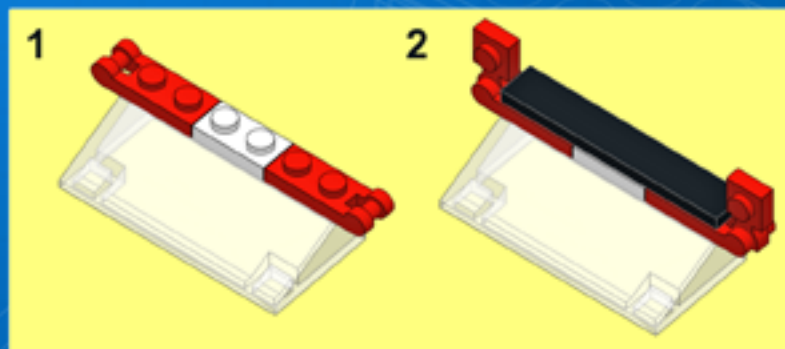
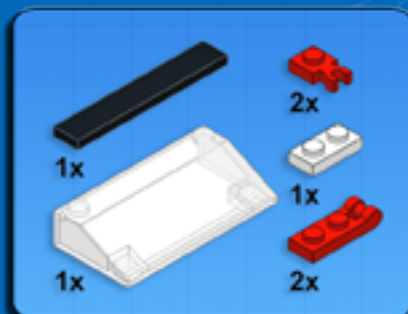




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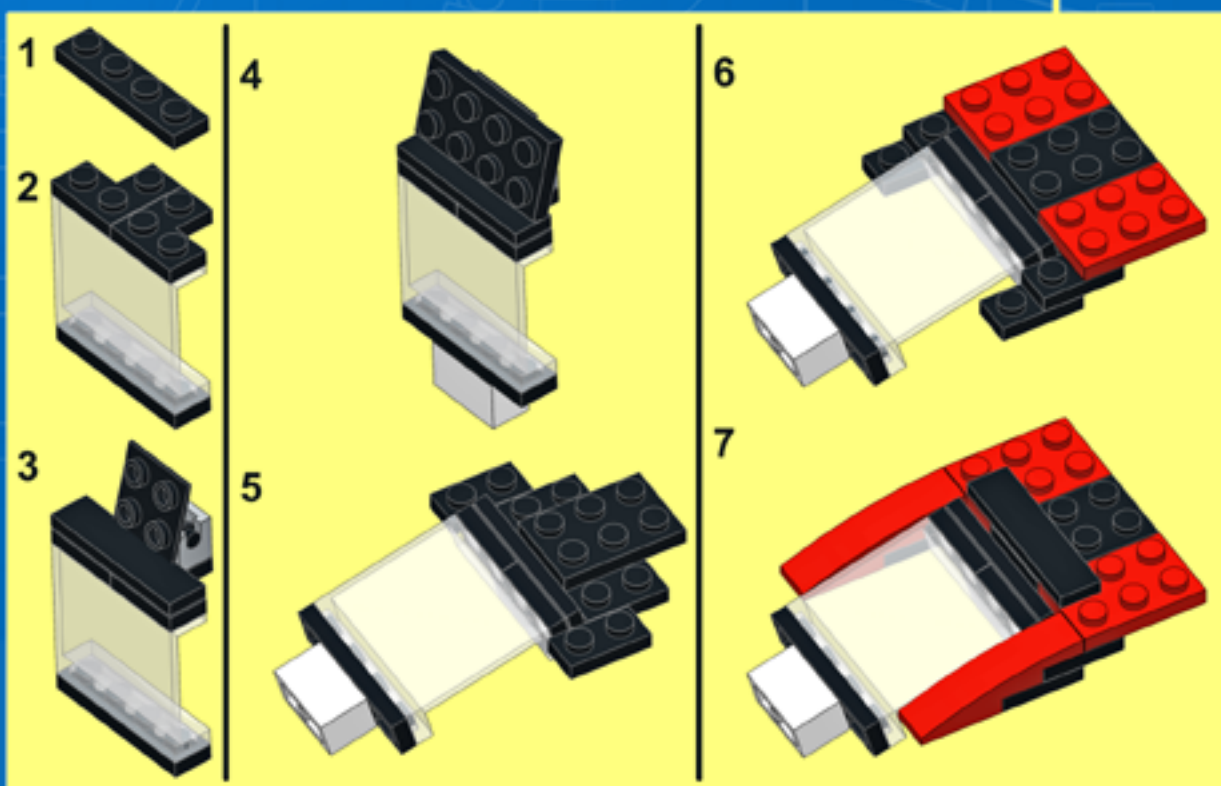
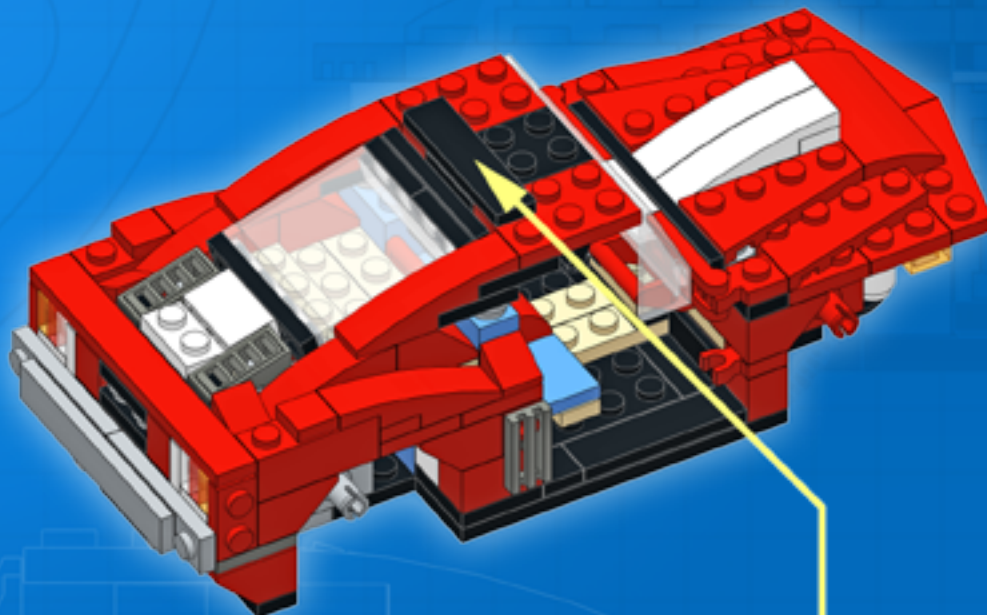


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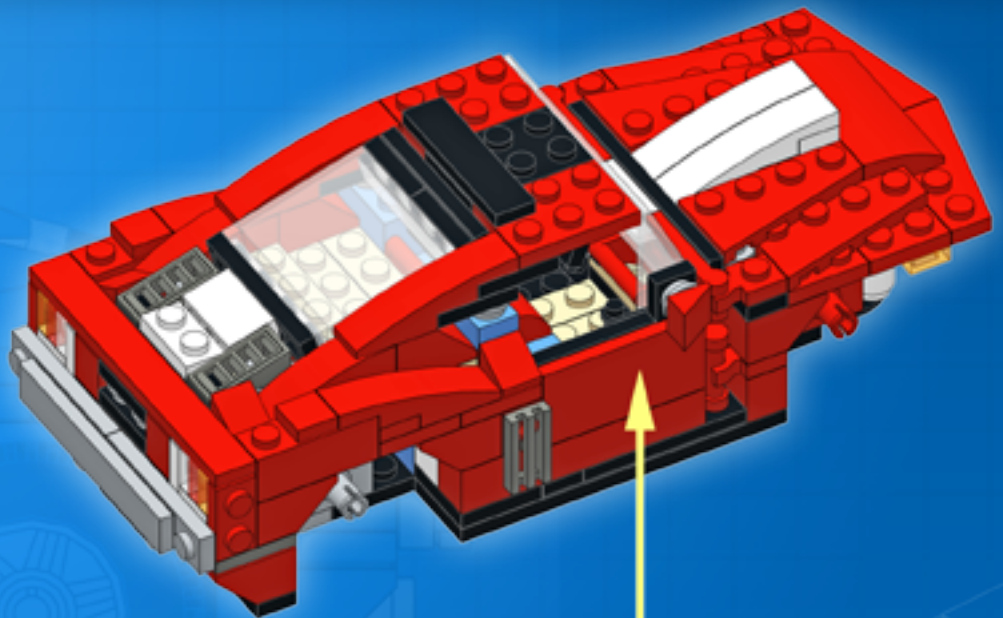
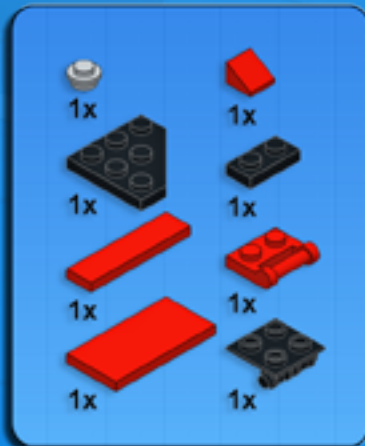


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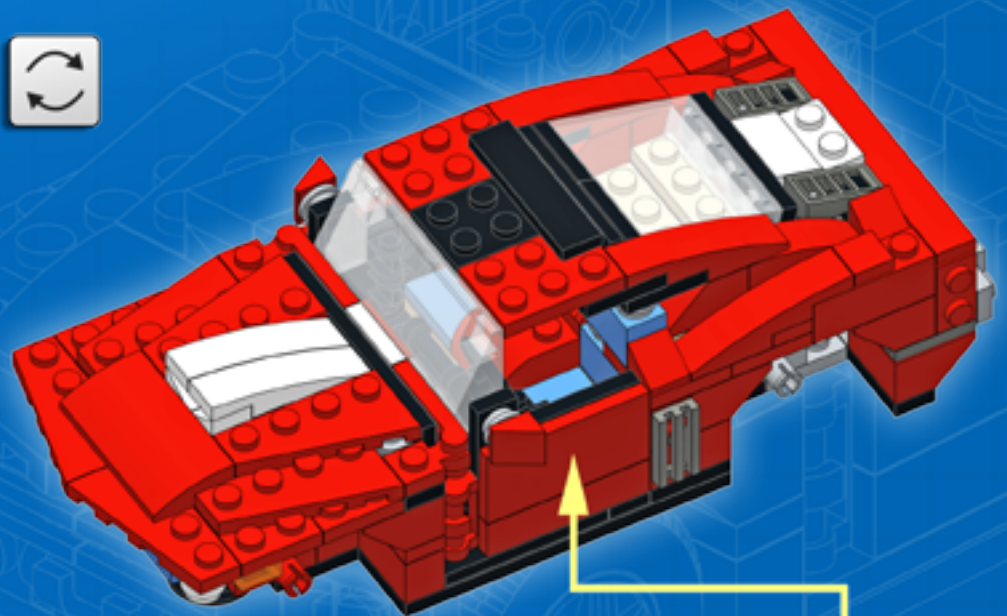
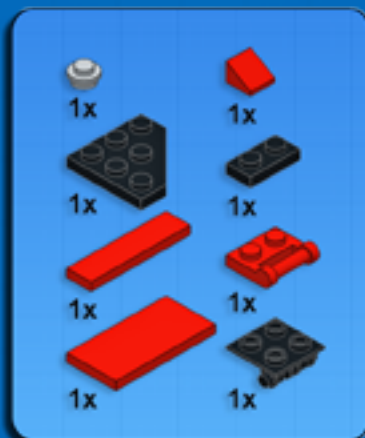


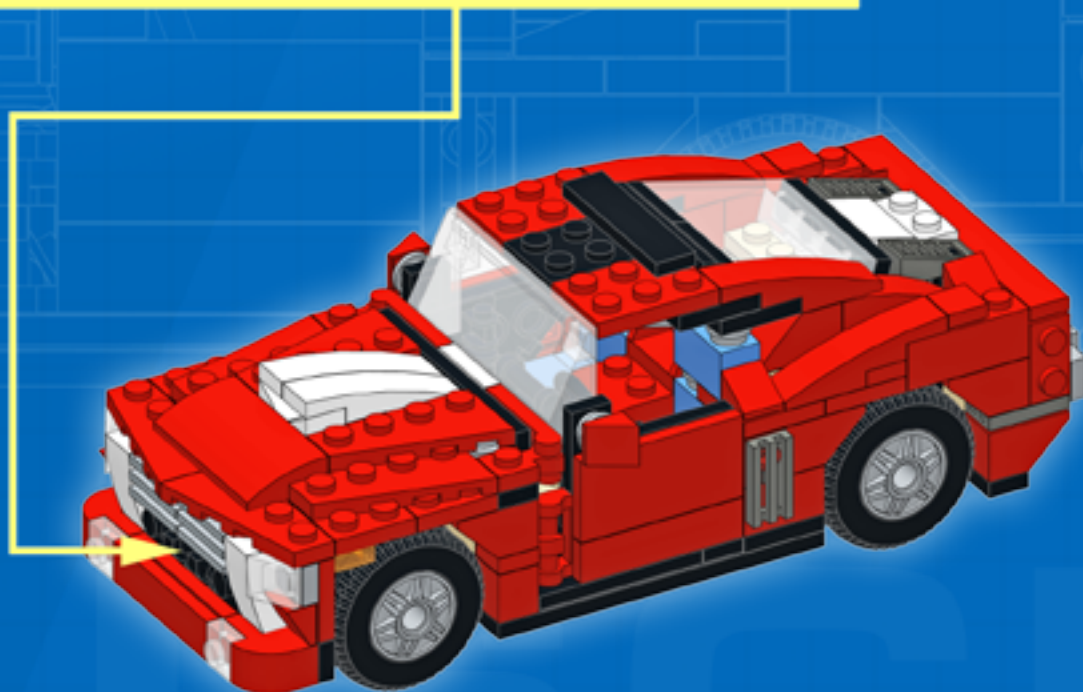
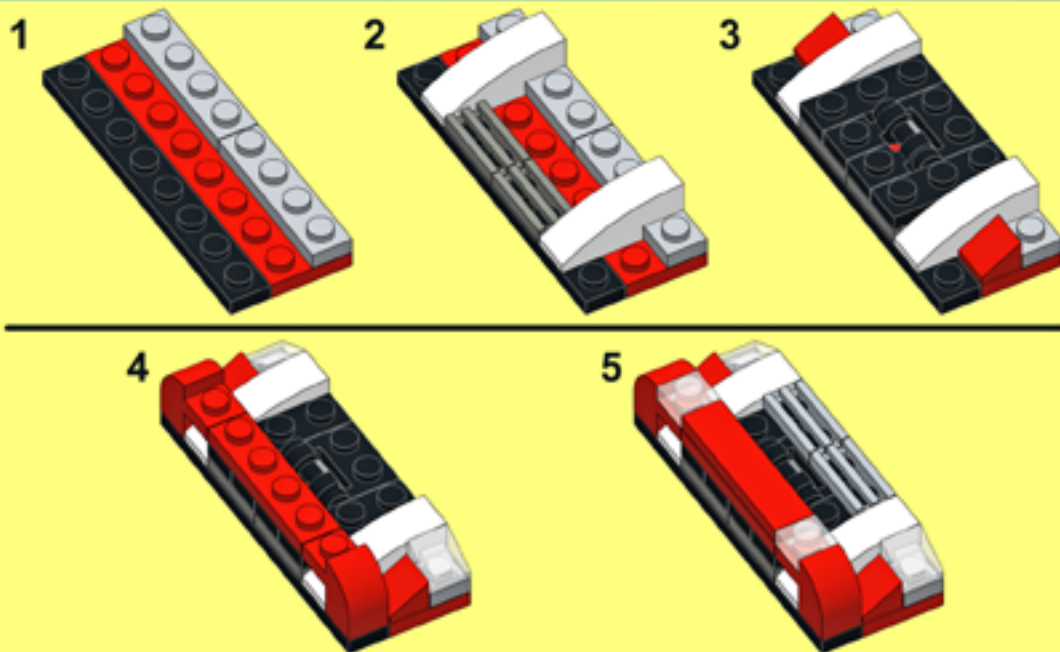


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20

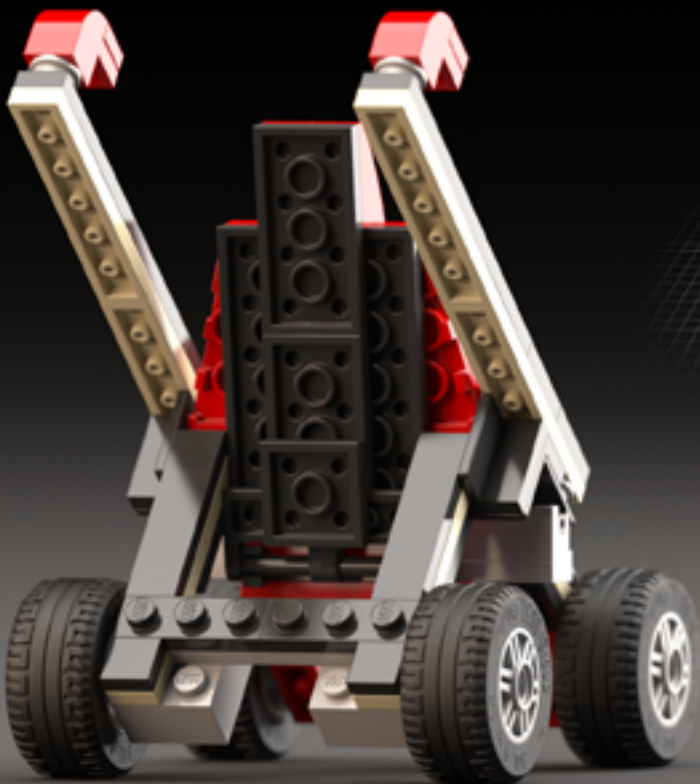








Complexity   
Functions   
Pieces 



## STROLLER

Design notes: open frame, upright chair, curved handlebars

### Technical specifications:

Dimensions (l × w × h):	14 × 10 × 15 studs
Wheelbase:	8 studs
Axle width front/rear:	10/10 studs



1



1



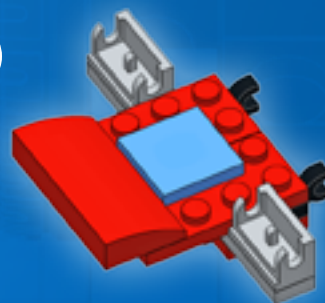
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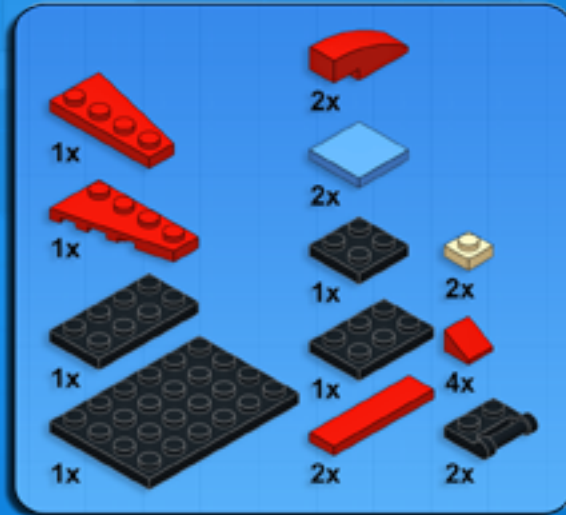


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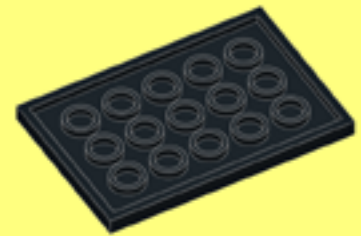




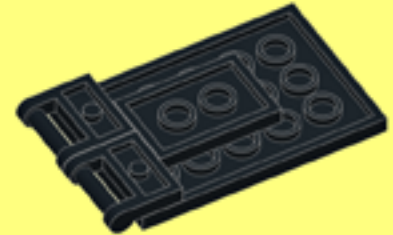
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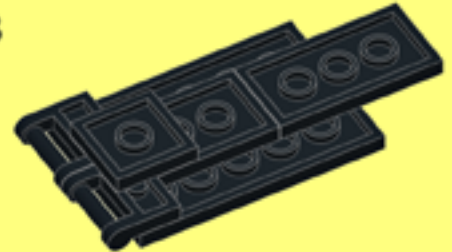
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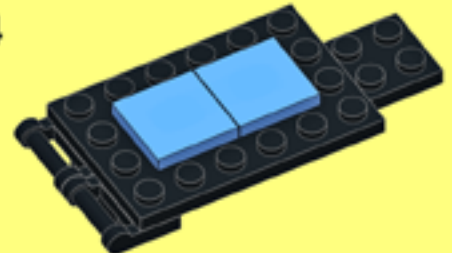
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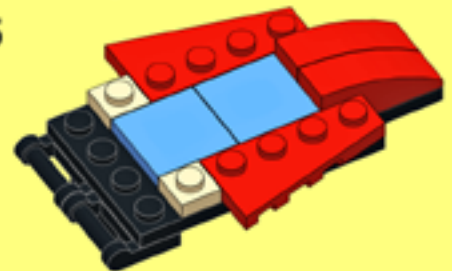
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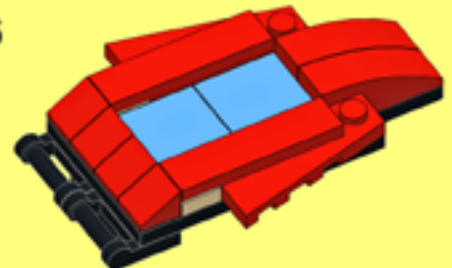
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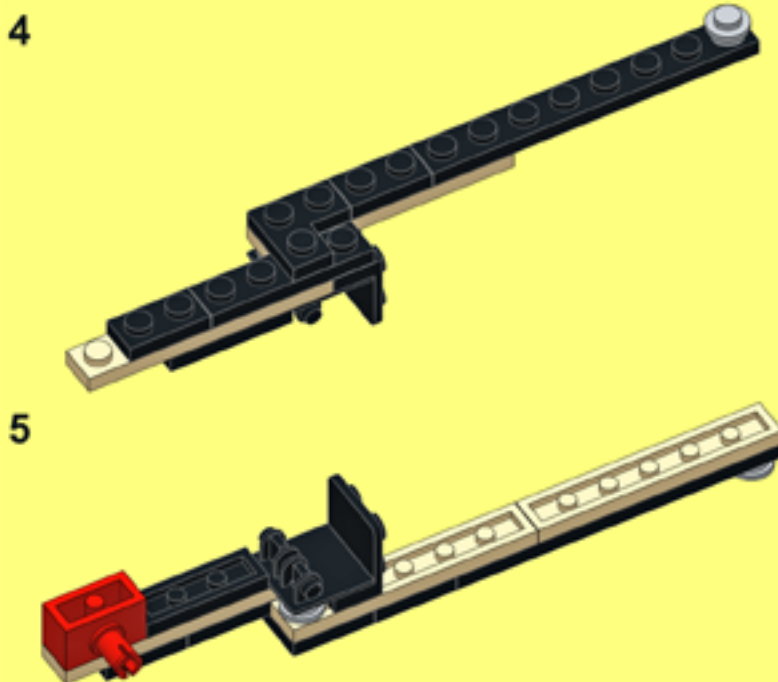
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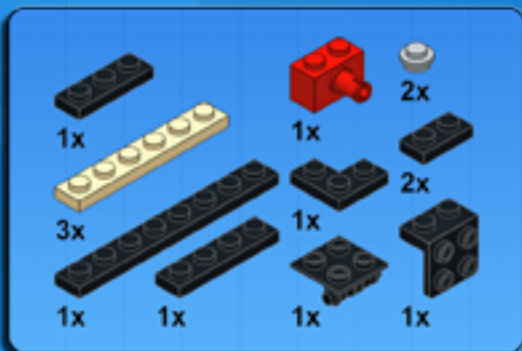


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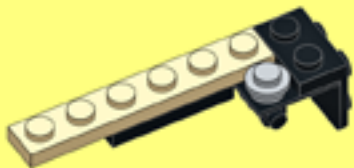
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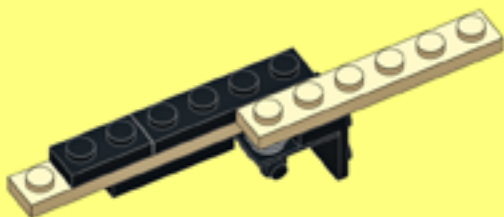
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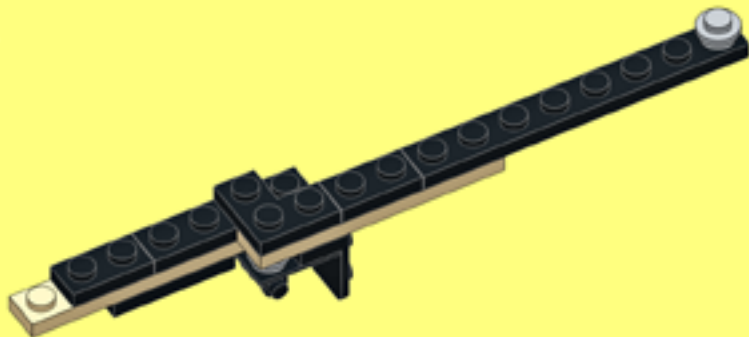
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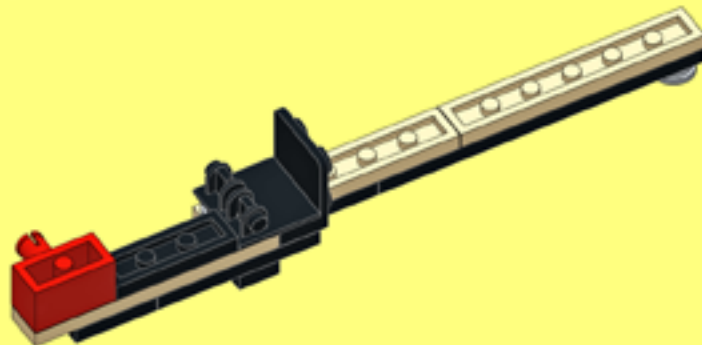
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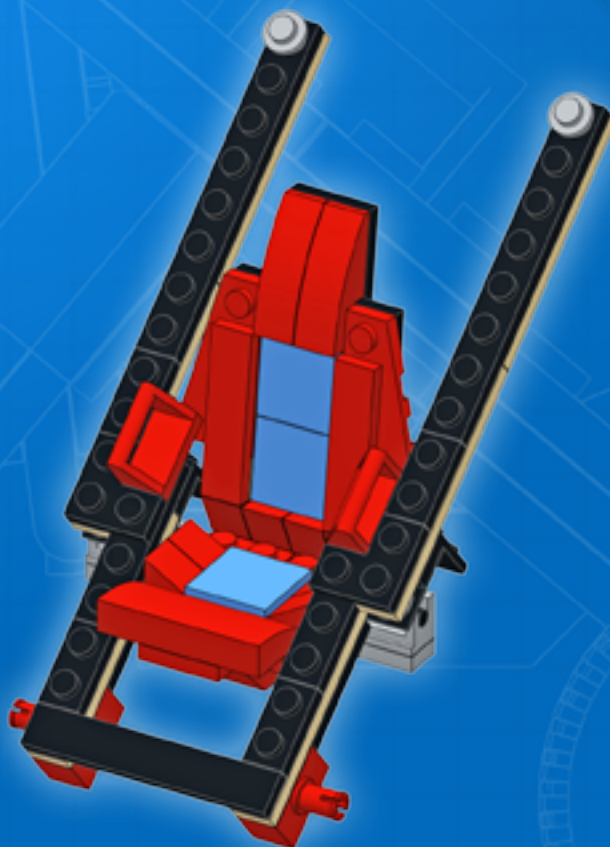
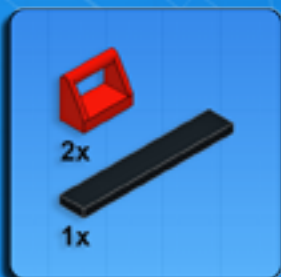


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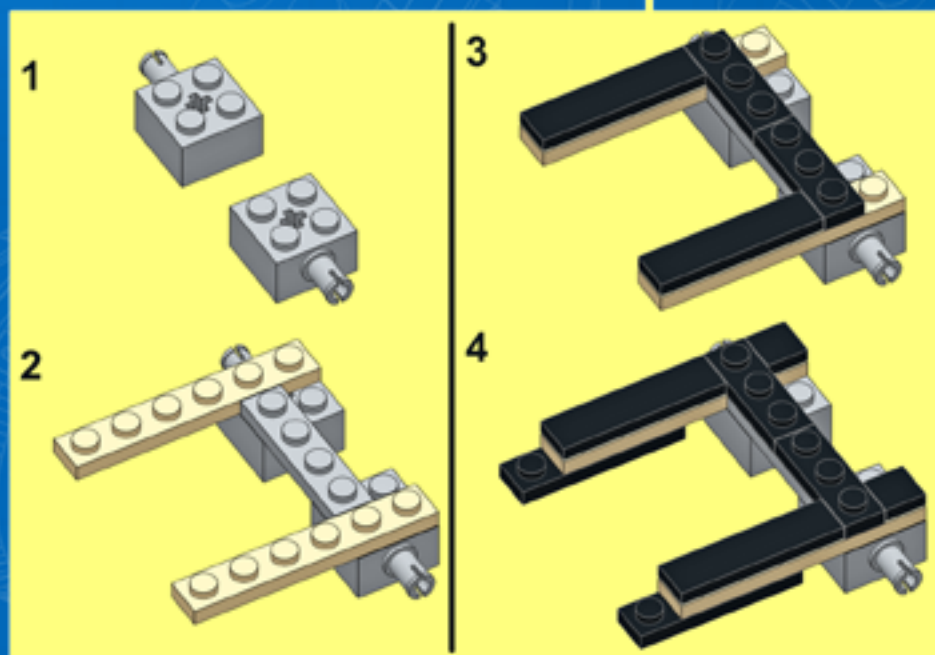
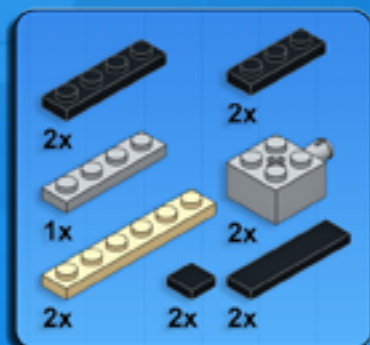


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6





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8



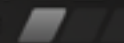




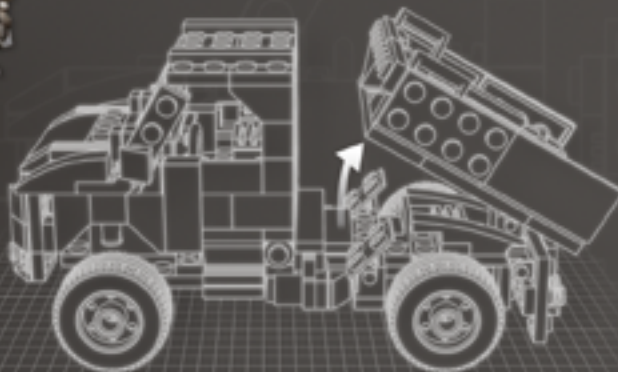
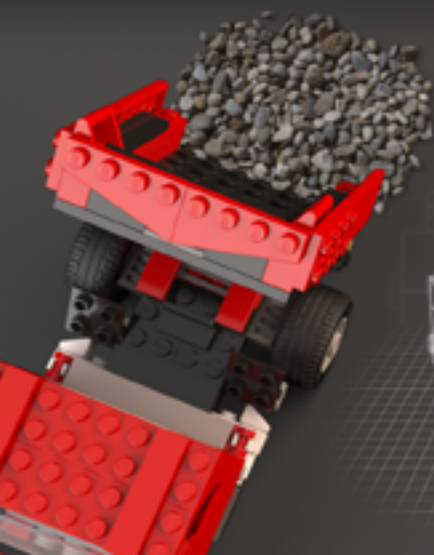
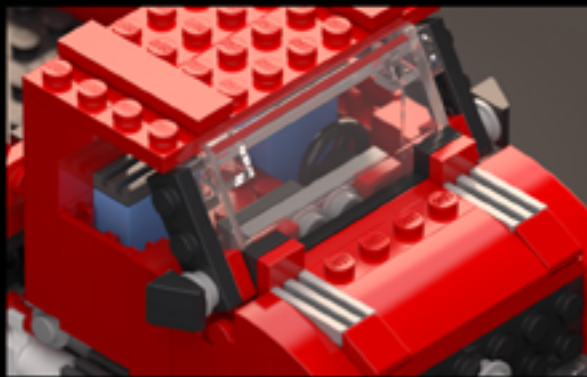
Complexity



Functions



Pieces



## MULTI-PURPOSE TRUCK

Design notes: short nose, wide axle, high clearance

### Technical specifications:

Dimensions (l × w × h): 19 × 11 × 11 studs  
Wheelbase: 11 studs  
Axle width front/rear: 10/10 studs

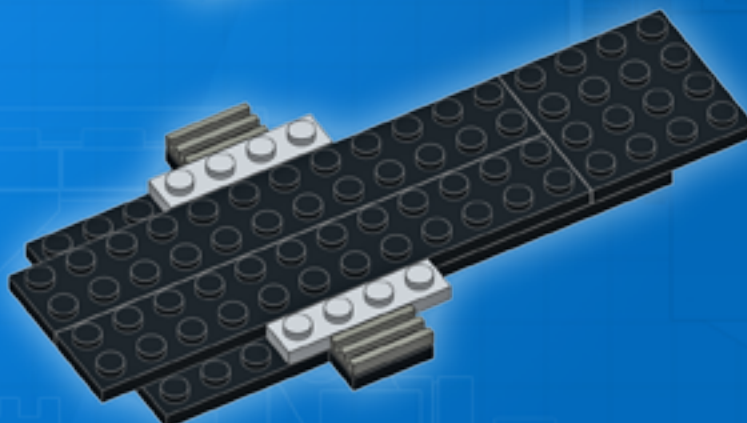
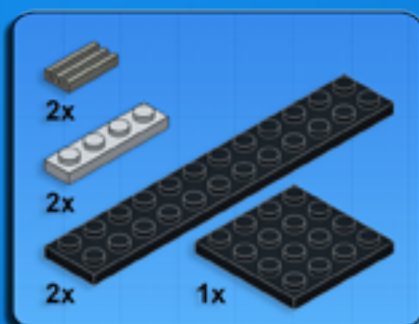
Features: tipping bed



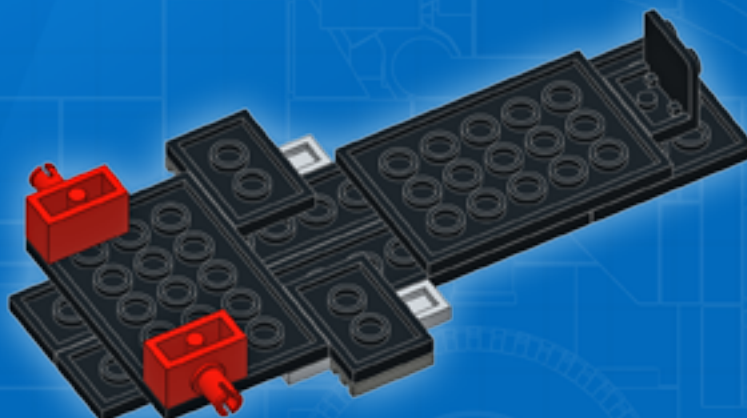
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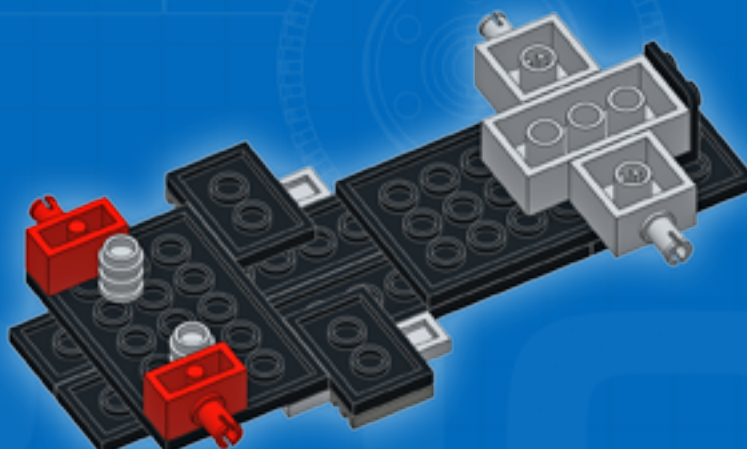
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3

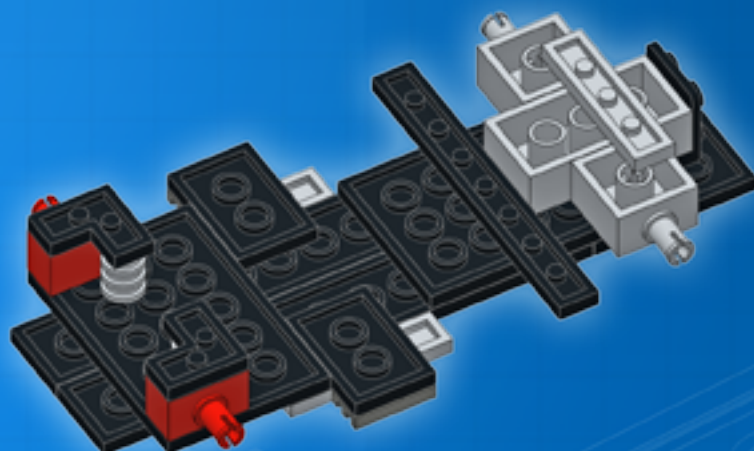
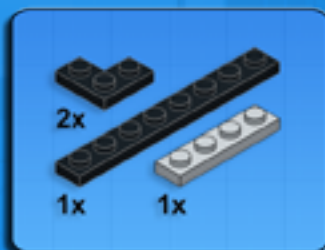


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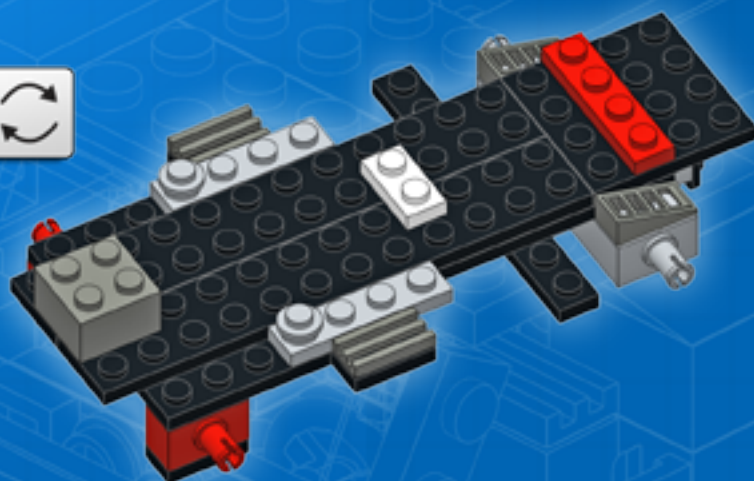




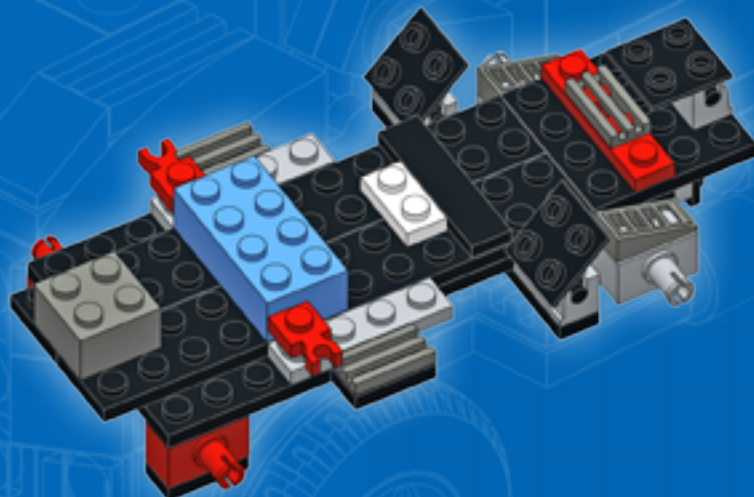
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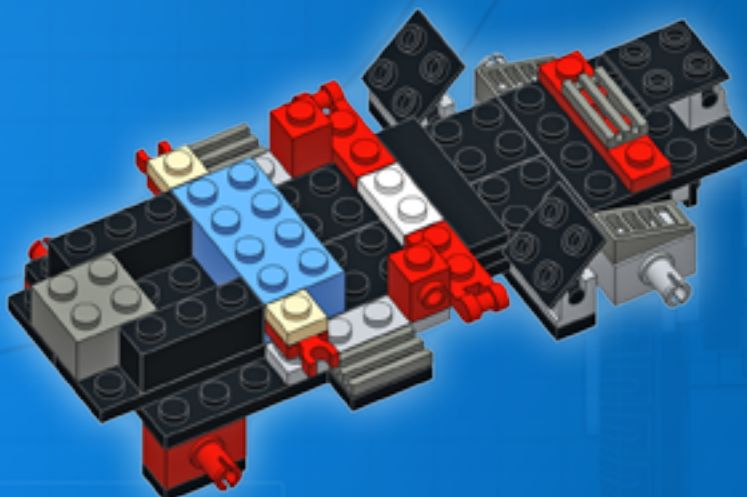


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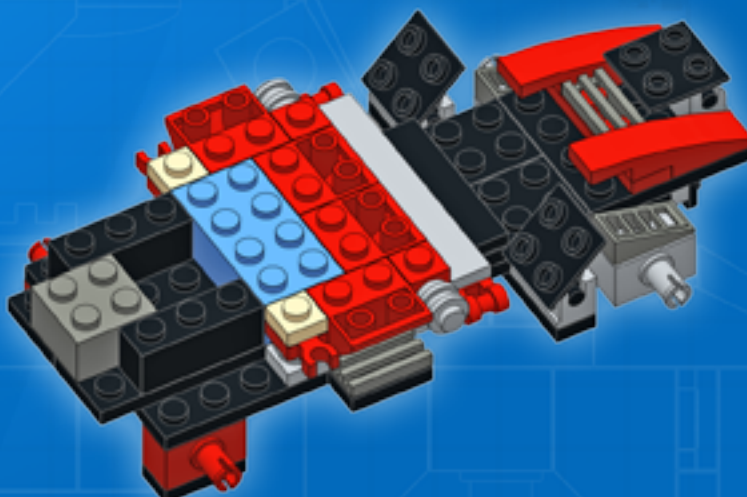




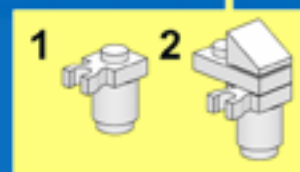
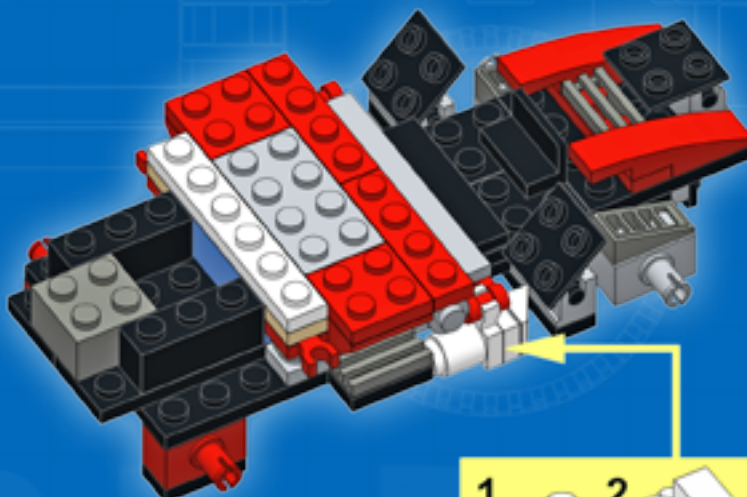
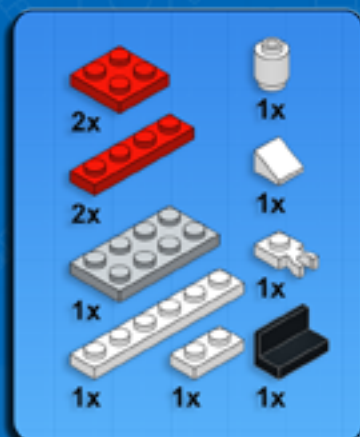
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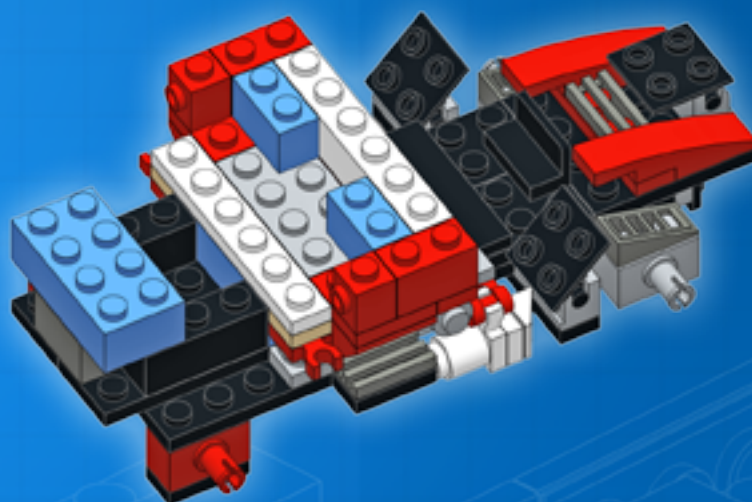
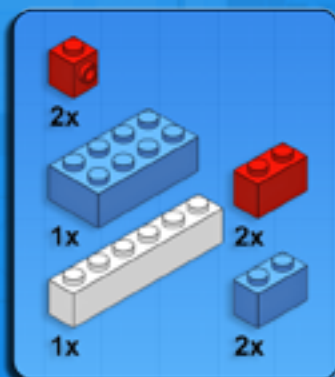


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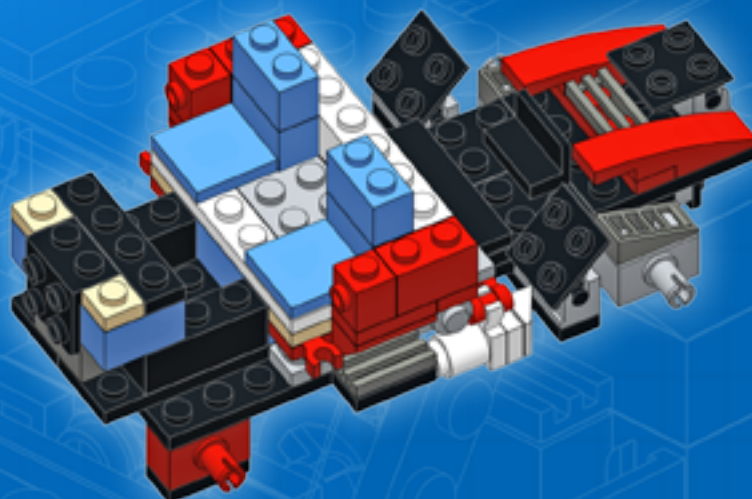




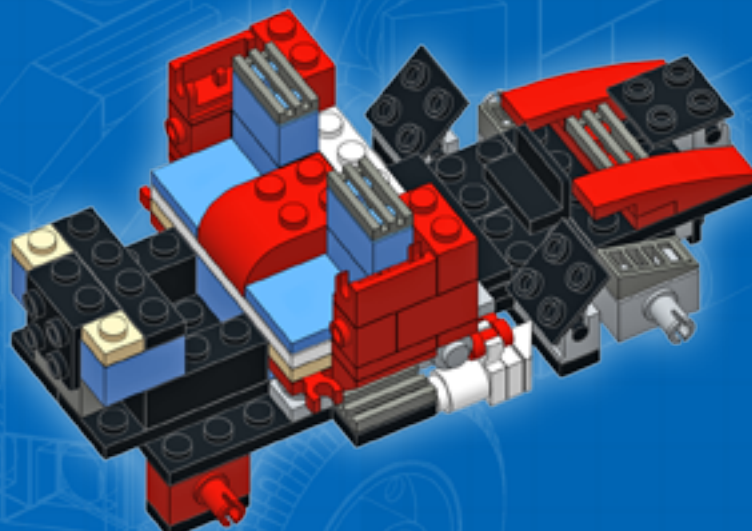
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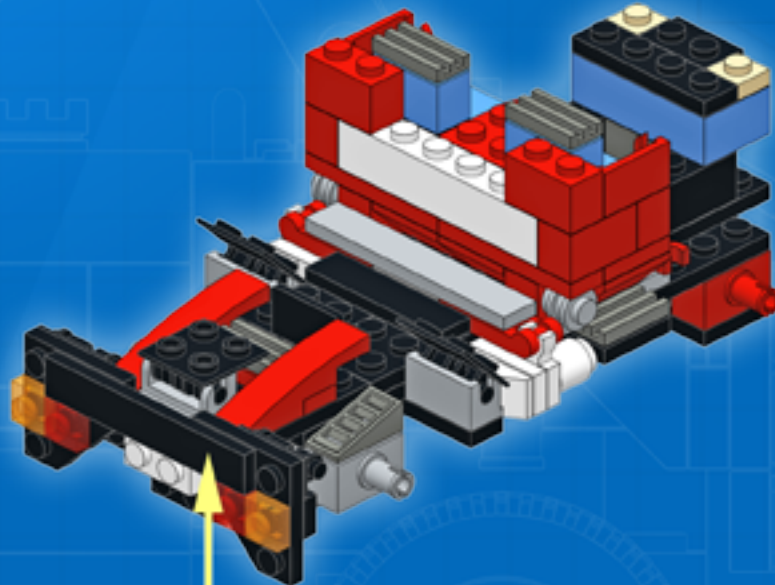
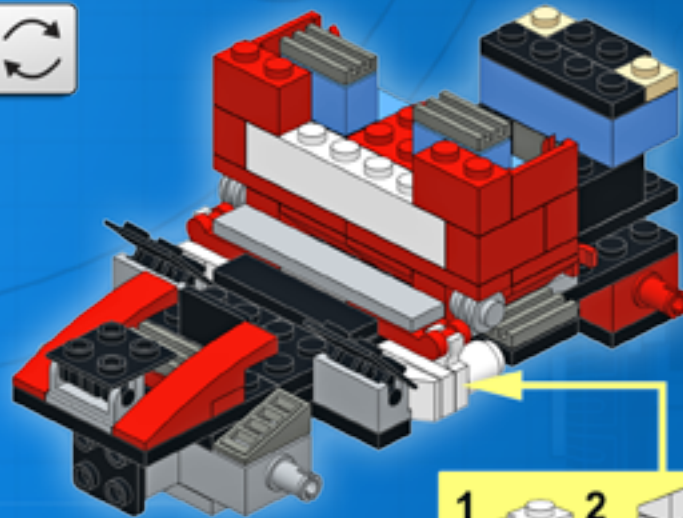


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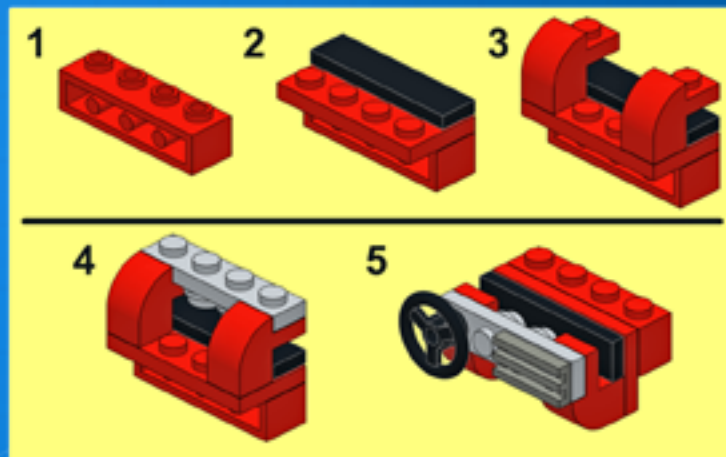


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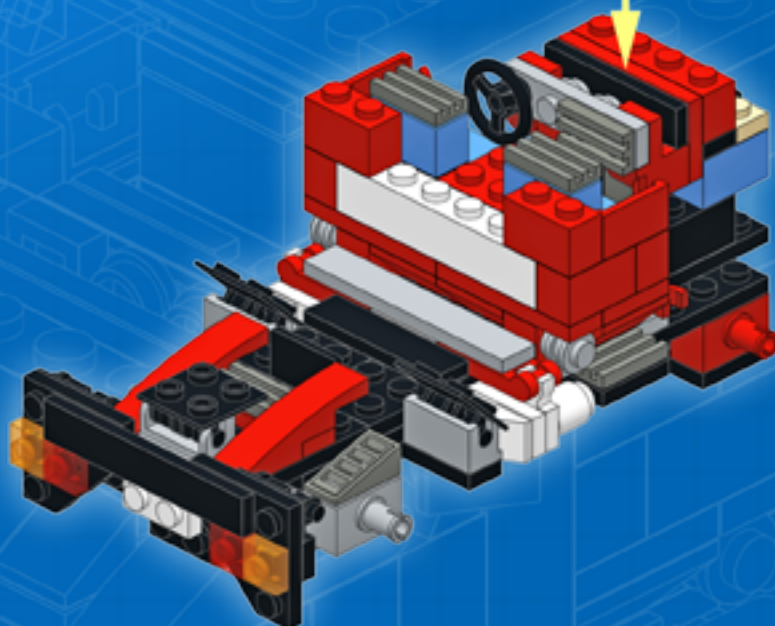
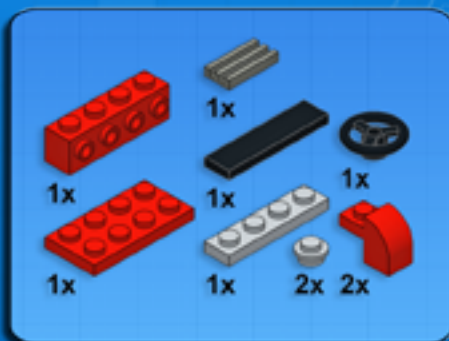








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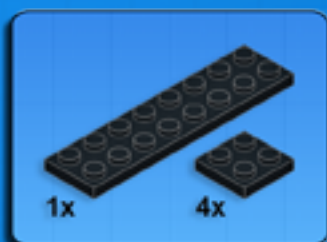




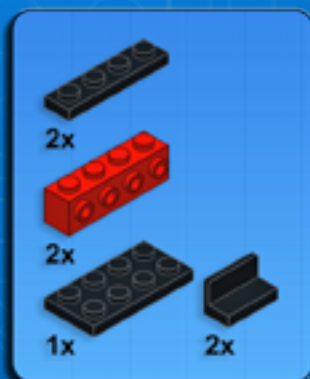
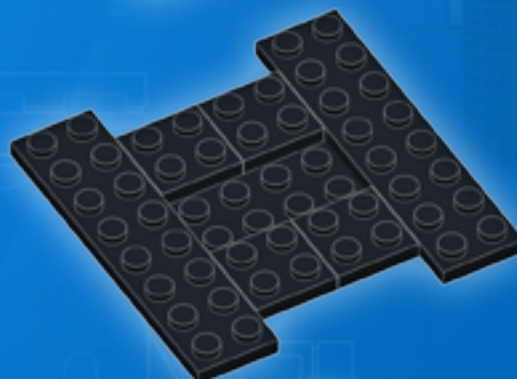
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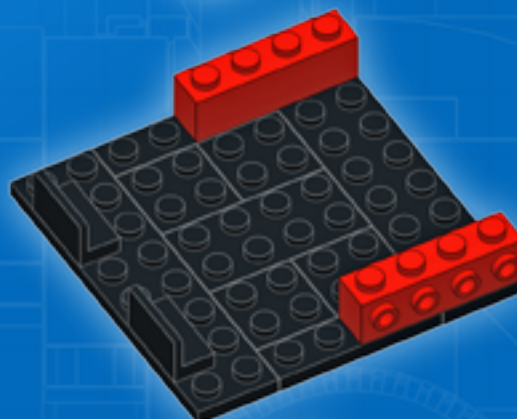
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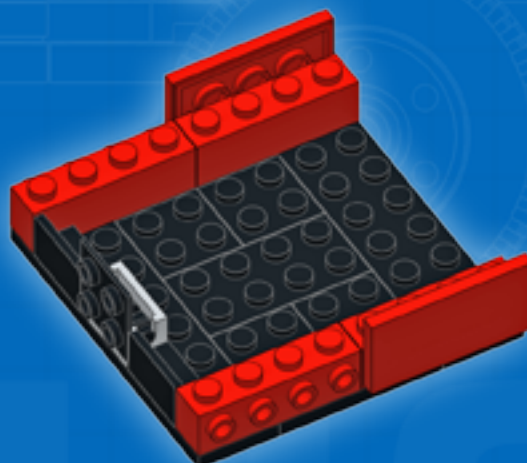
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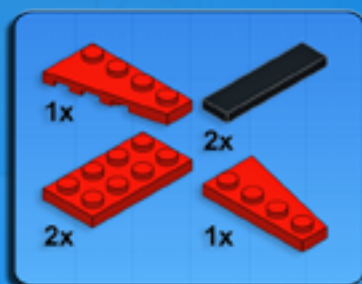
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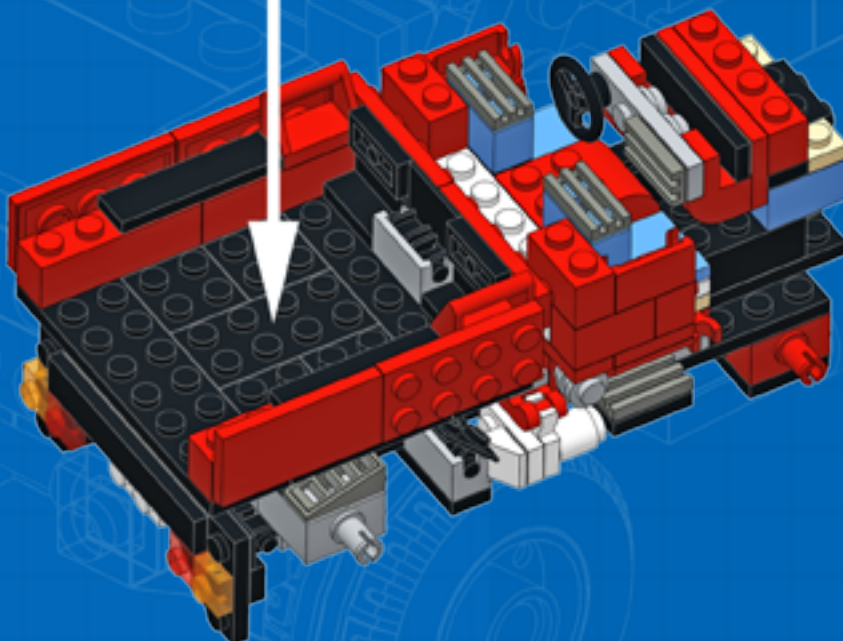
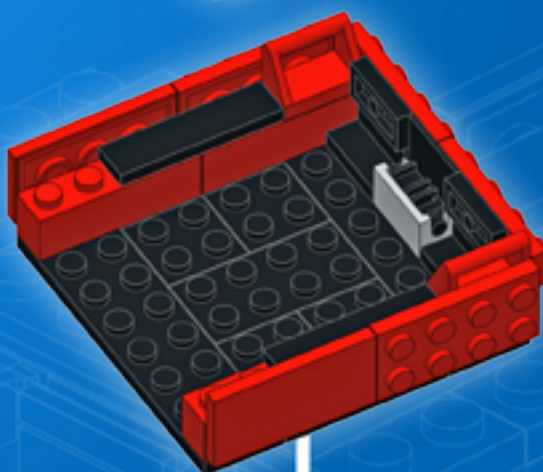




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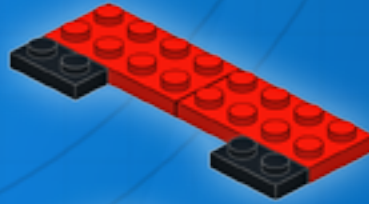




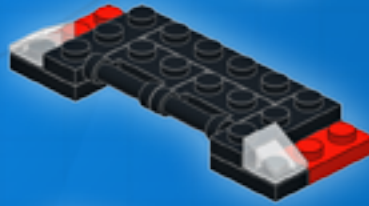
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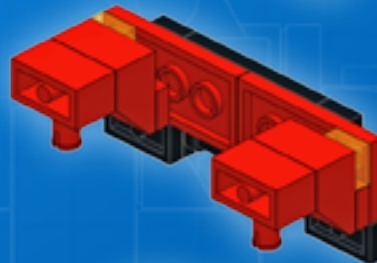
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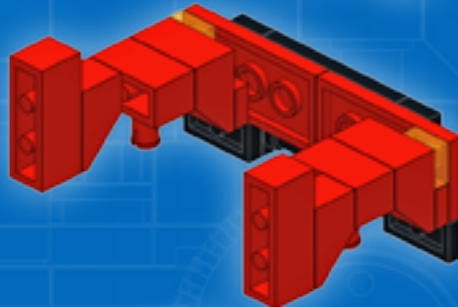
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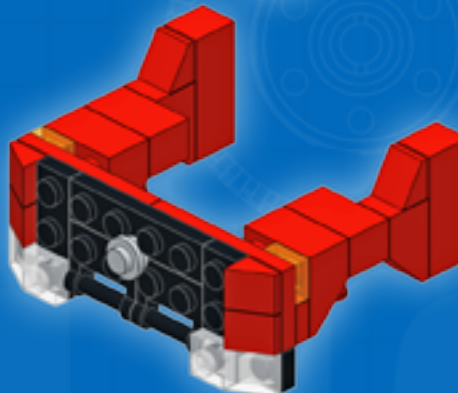
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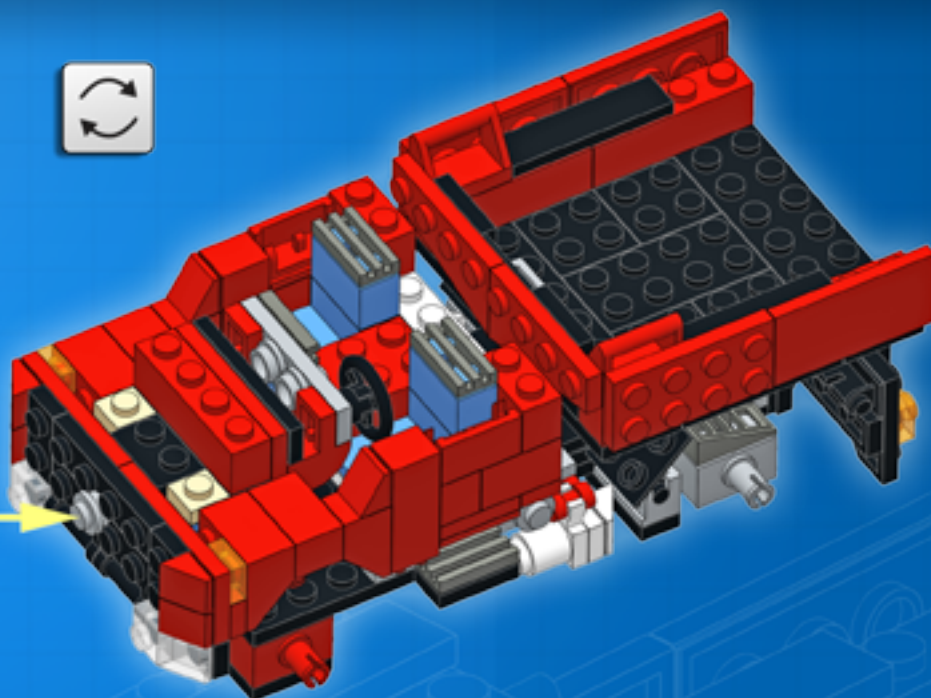
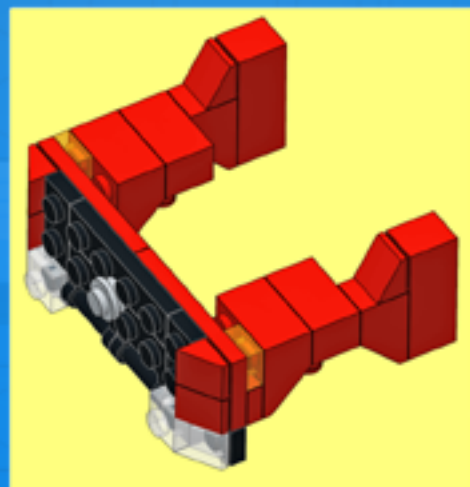
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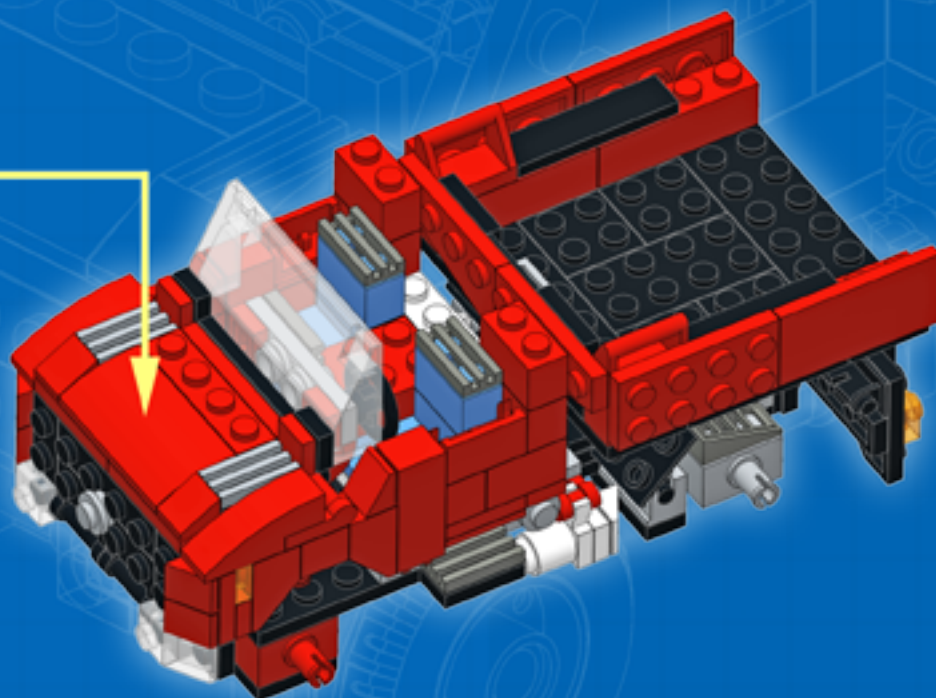
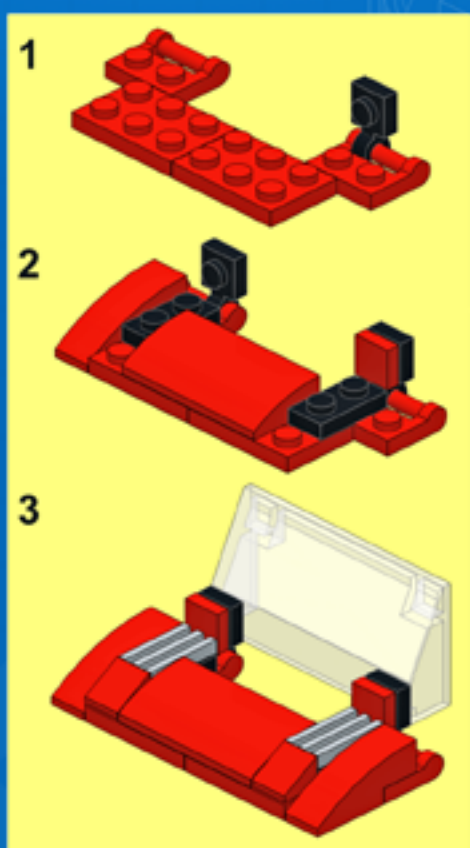
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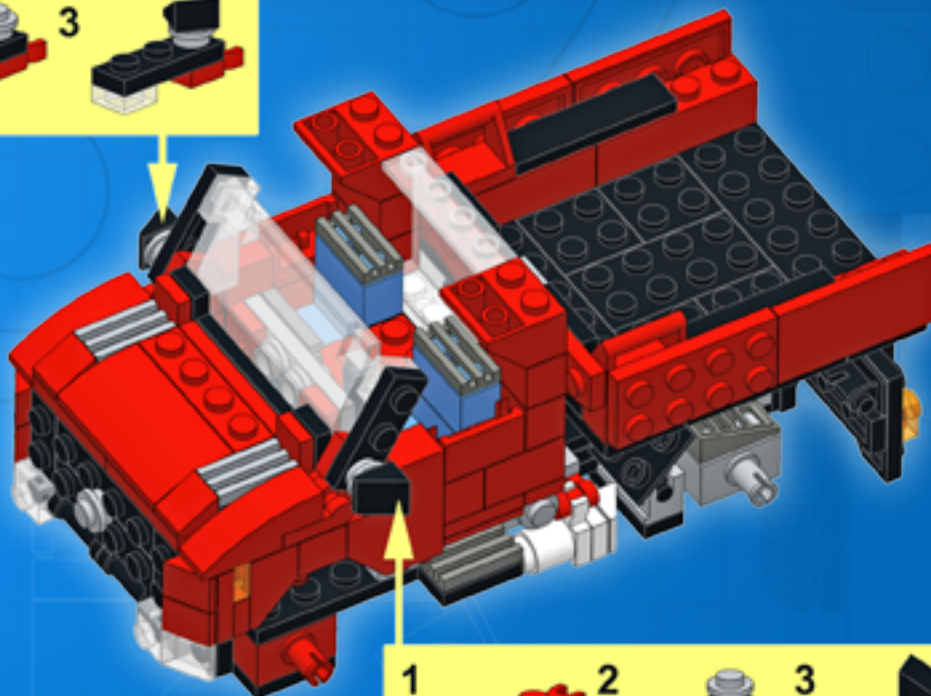
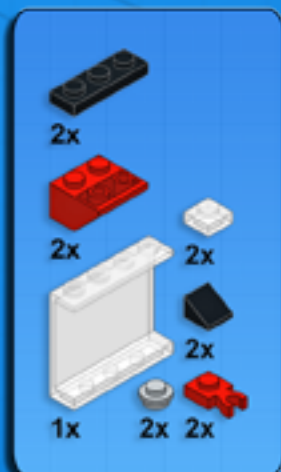


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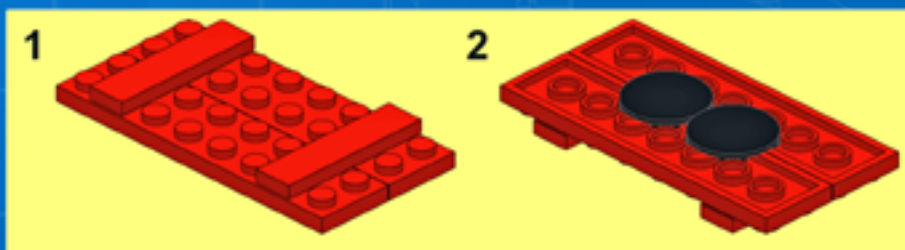
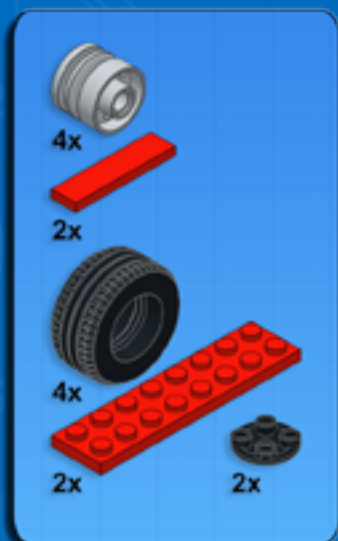




20



21





PRETTY COOL MODELS SO FAR,  
DON'T YOU THINK?



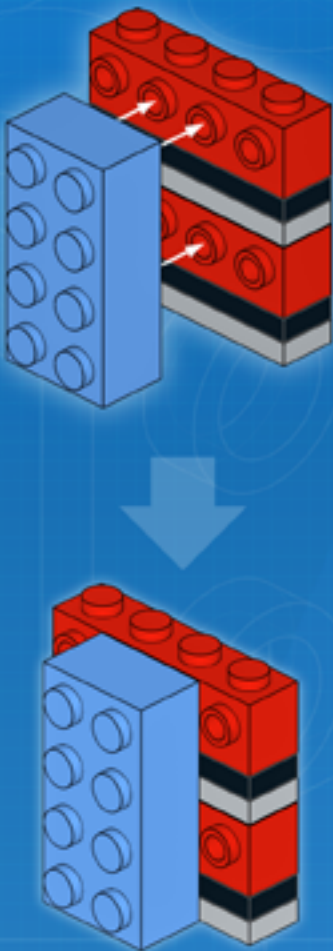
## ADVANCED BUILDING



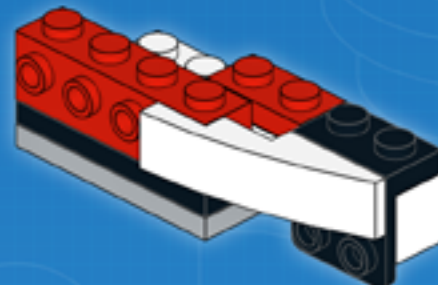
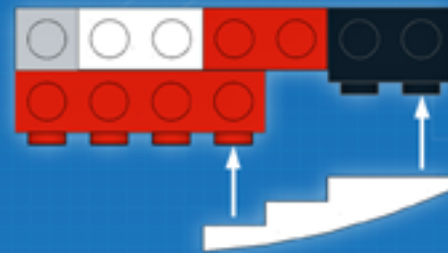
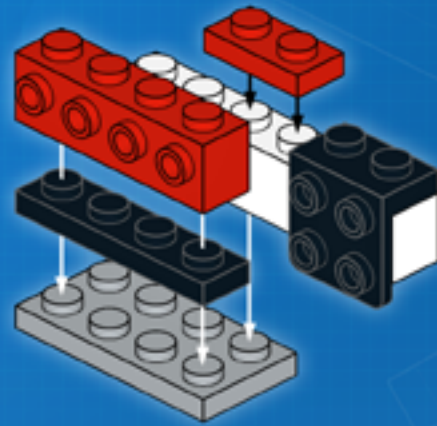
NOW YOU'RE READY TO LEARN SOME ADVANCED BUILDING TECHNIQUES!

HERE ARE A FEW IDEAS FOR CREATING **STURDY CROSS-CONNECTIONS** BETWEEN PIECES.

THAT'S A **STRONG CONNECTION!**



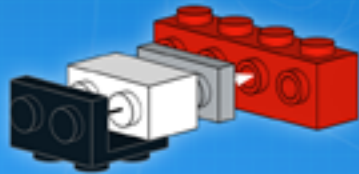
VERTICAL REINFORCEMENT



HORIZONTAL REINFORCEMENT



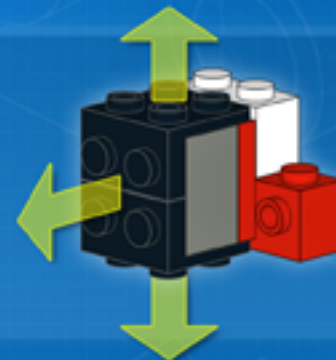
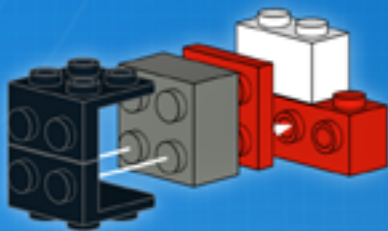
WHAT HAPPENS WHEN YOU BUILD SIDWAYS AFTER YOU'VE ALREADY GONE SIDWAYS?  
WELL, THEN YOU'RE BUILDING UPSIDE DOWN!



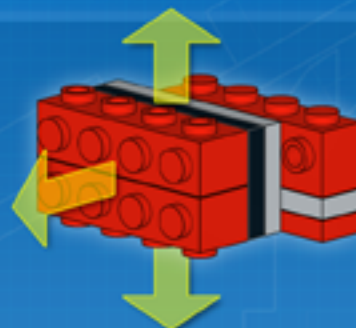
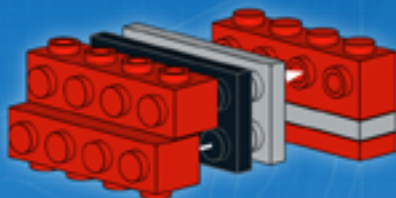
DON'T GET  
DISORIENTED!



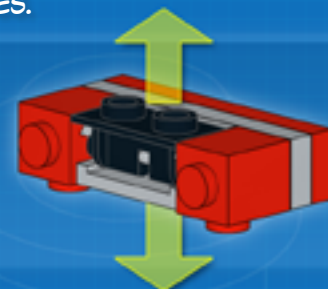
OR YOU MIGHT BE BUILDING RIGHT SIDE UP AGAIN, TOO!



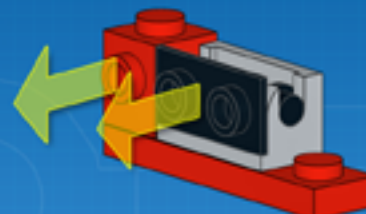
NOTICE HOW YOU CAN REINFORCE THIS CONNECTION WITH A PLATE OR BRICK ON THE TOP.



ANOTHER SURPRISINGLY USEFUL TECHNIQUE IS TO USE HINGES TO BUILD SIDWAYS. THESE  
HINGES CAN BE HELPFUL WHEN YOU'RE OUT OF THE USUAL PARTS FOR BUILDING SIDWAYS,  
AND THEY'RE EVEN PREFERABLE WHEN YOU WANT TO BUILD AT OTHER ANGLES.



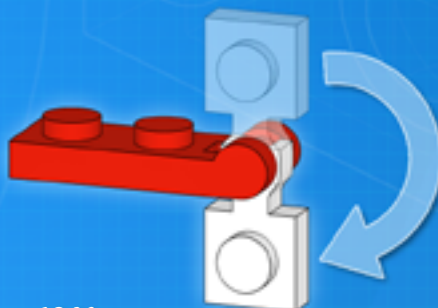
UPSIDE-DOWN BUILDING IS COOL!



HINGES AND PINS ARE VERY USEFUL FOR CREATING FLEXIBLE JOINTS AND ARTICULATION. DIFFERENT HINGES HAVE DIFFERENT LIMITATIONS, THOUGH.



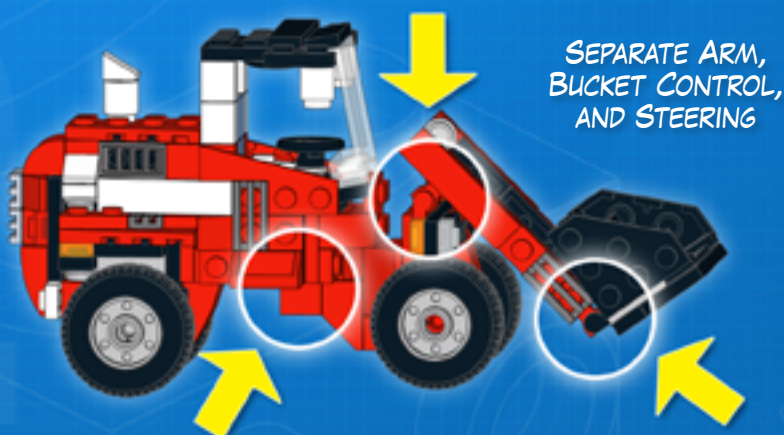
90° RANGE



180° RANGE

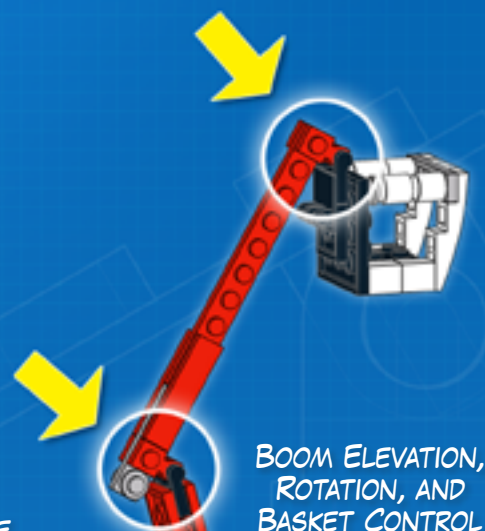


360° RANGE

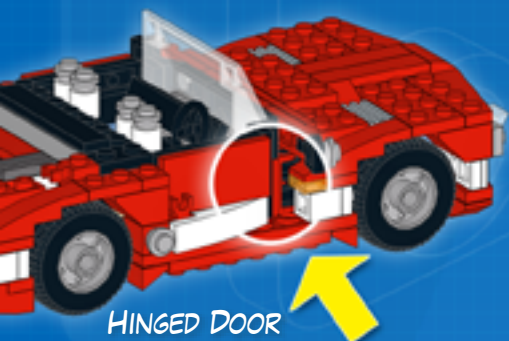


SEPARATE ARM,  
BUCKET CONTROL,  
AND STEERING

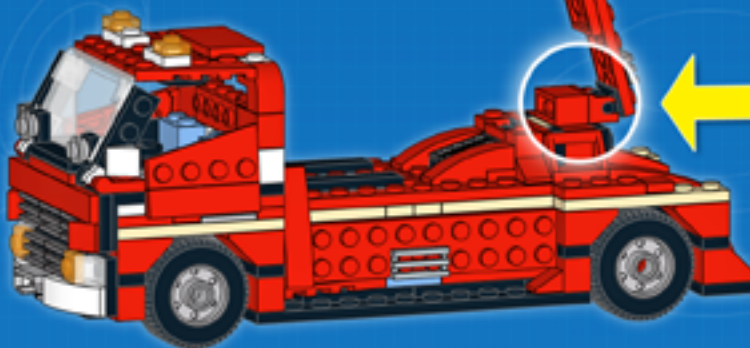
FOR EVERY DIFFERENT KIND OF JOINT, THERE'S AN IDEAL HINGE TO USE. COMBINE THESE JOINTS WITH SIDEWAYS BUILDING TECHNIQUES, AND YOU CAN CREATE PRETTY MUCH ANY FUNCTION OR ARTICULATION! HERE ARE A FEW EXAMPLES I USED IN THIS BOOK.



BOOM ELEVATION,  
ROTATION, AND  
BASKET CONTROL



HINGED DOOR



PAY ATTENTION TO THESE TECHNIQUES AS YOU BUILD THE WHEEL LOADER, CLASSIC CAR, AND RESCUE TRUCK!





Complexity  
Functions  
Pieces



## HISTORIC RACER

Design notes: bullet shape, minimal aeroscreen, wide wheelbase, six-cylinder engine, rollbar

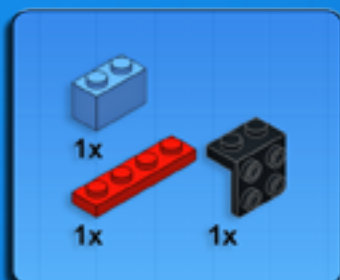
### Technical specifications:

Dimensions (l × w × h): 19 × 10 × 6 studs  
Wheelbase: 12 studs  
Axle width front/rear: 10/10 studs

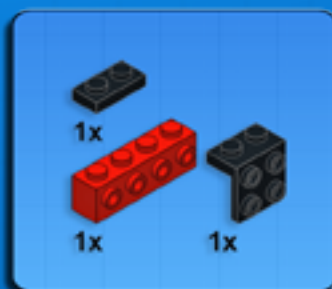




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3



4



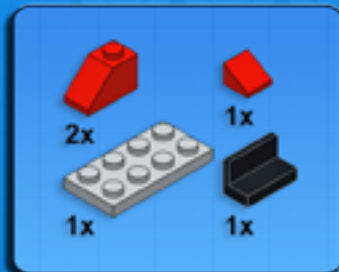
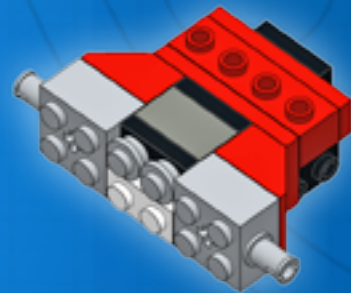
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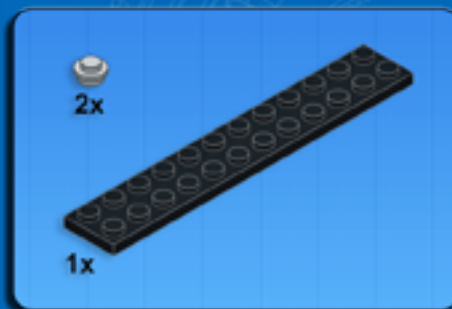
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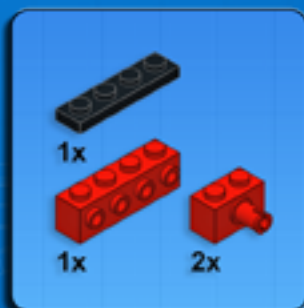
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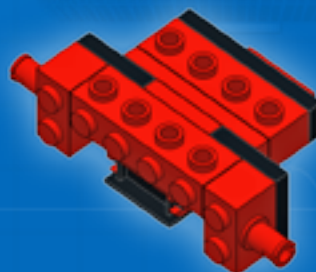
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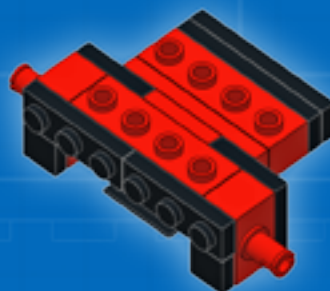
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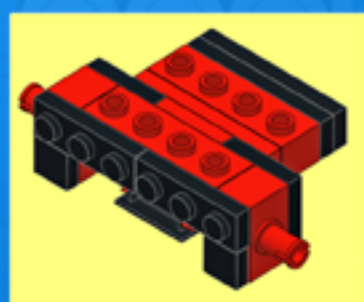
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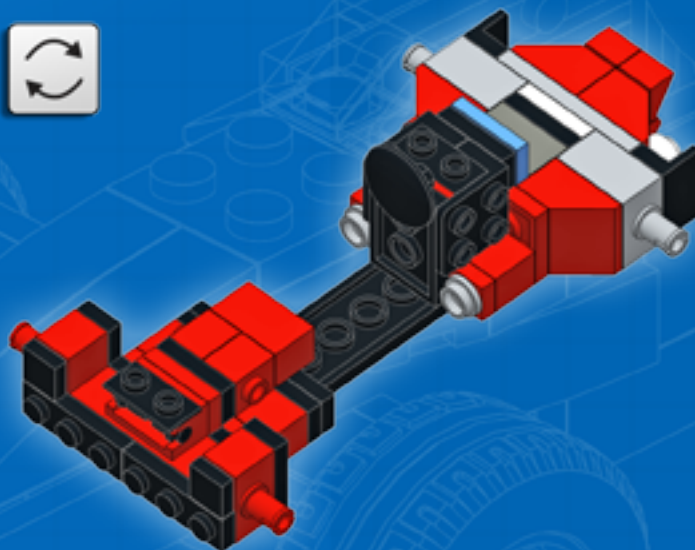
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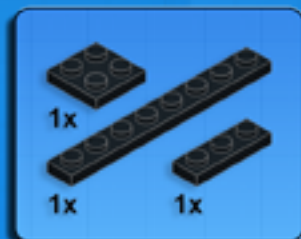


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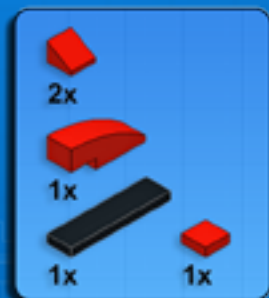
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1



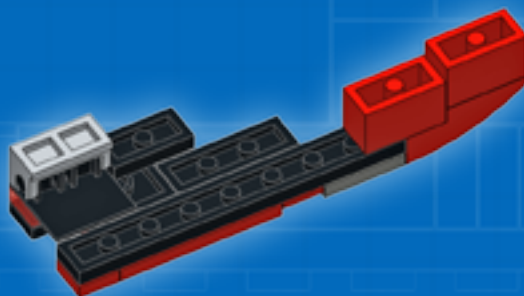
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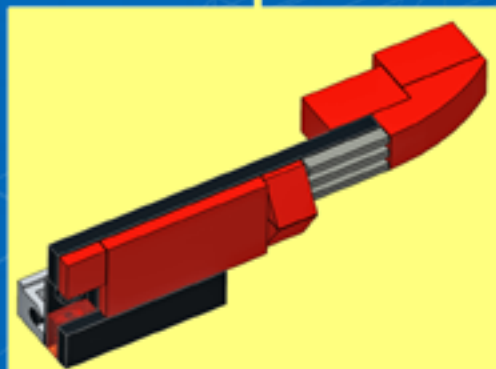
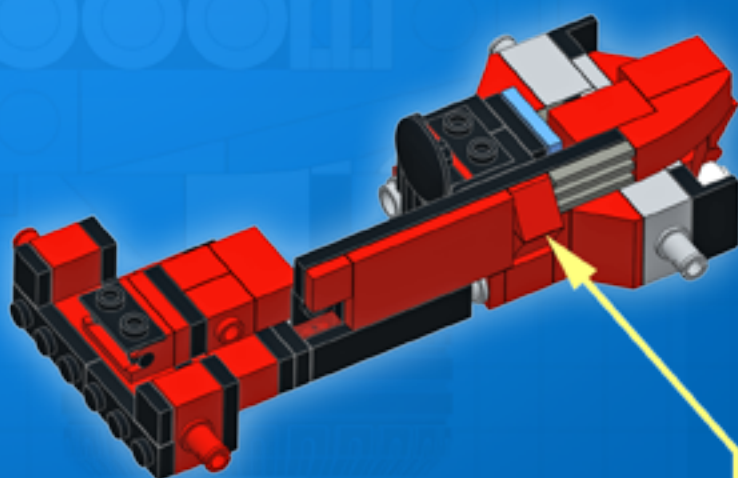
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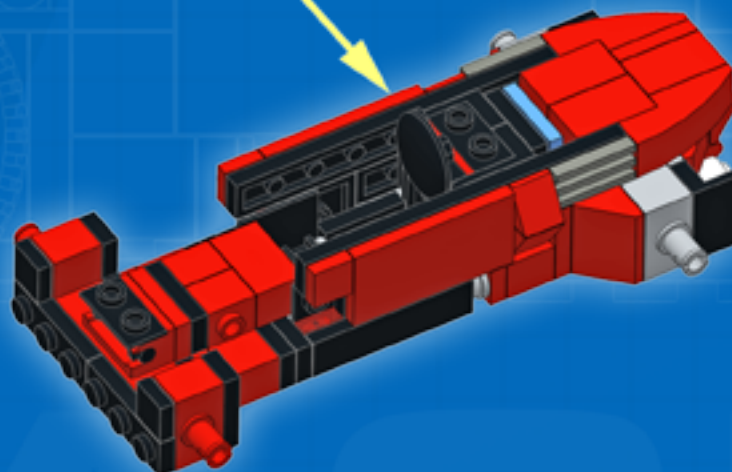


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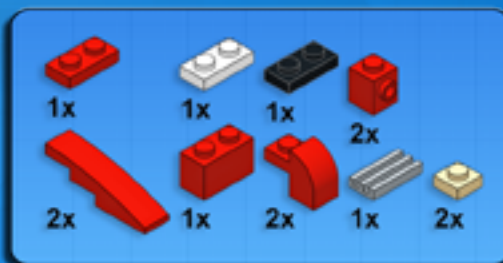
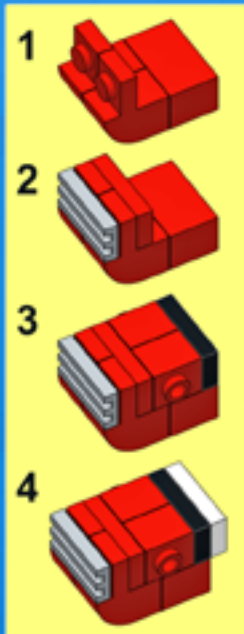




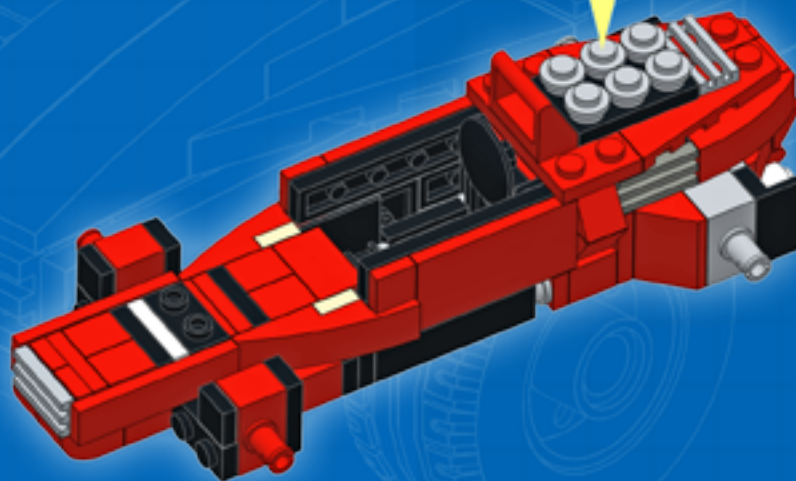
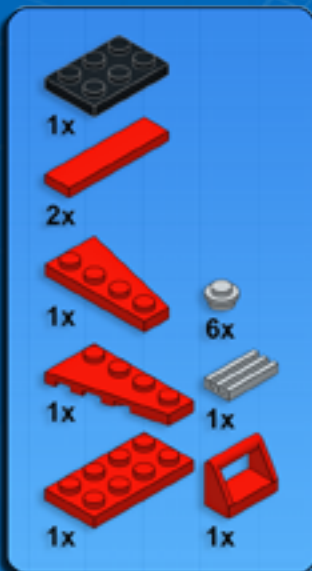


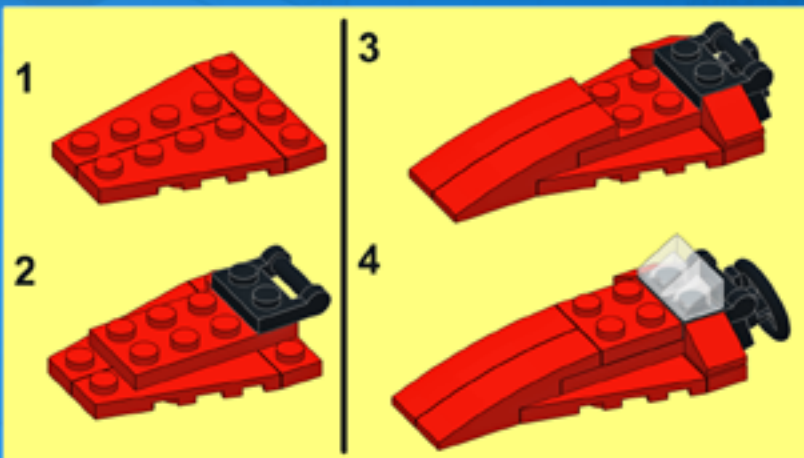


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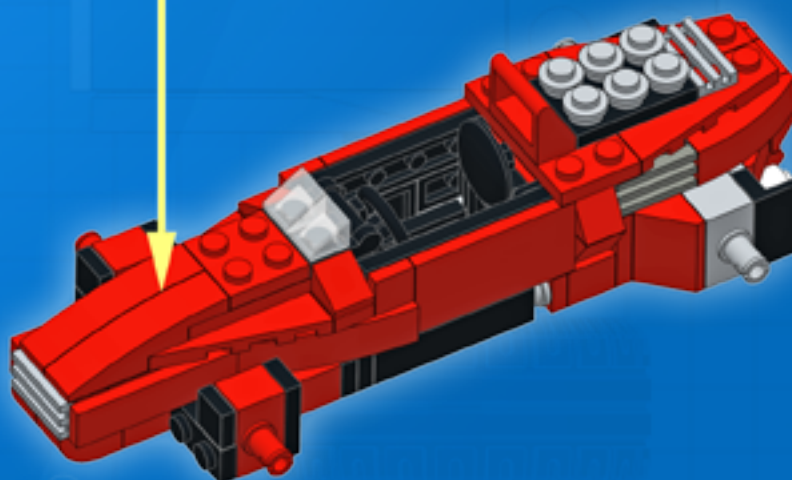


15





16



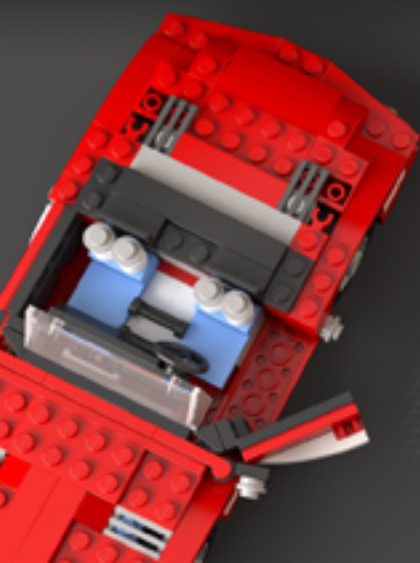
17







Complexity   
Functions   
Pieces 



## CLASSIC CAR

Design notes: wide chassis, convertible, wide stripe, classic curves

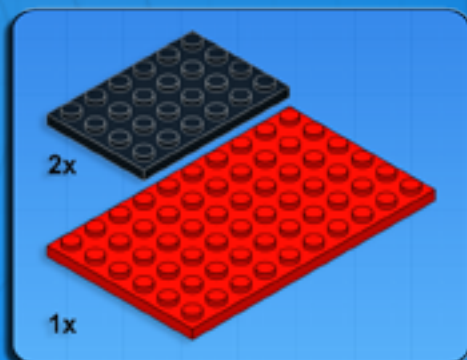
### Technical specifications:

Dimensions (l × w × h): 23 × 13 × 7 studs

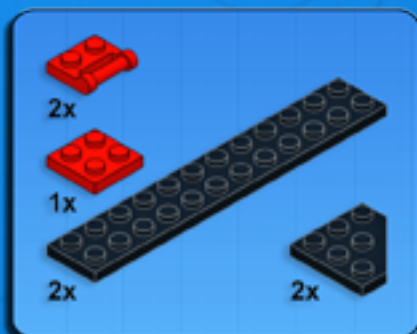
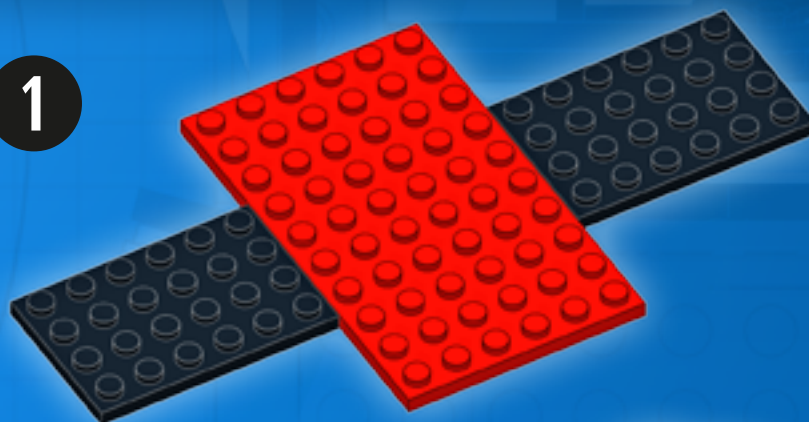
Wheelbase: 12 studs

Axle width front/rear: 10/10 studs

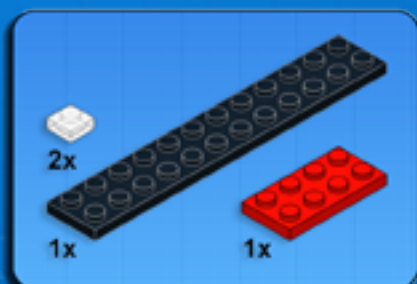
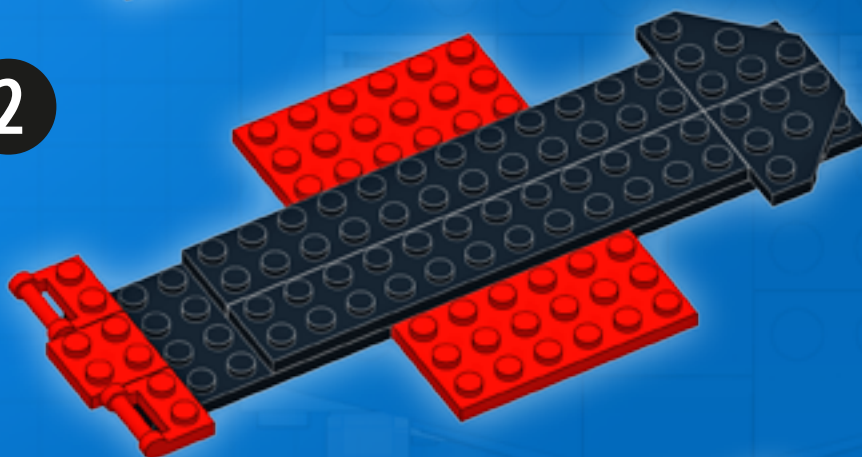
Features: opening doors



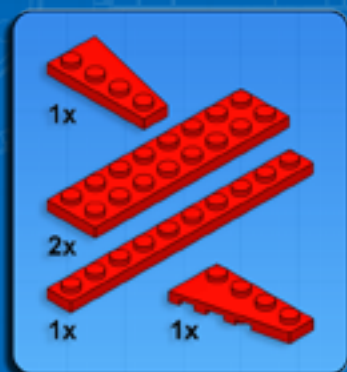
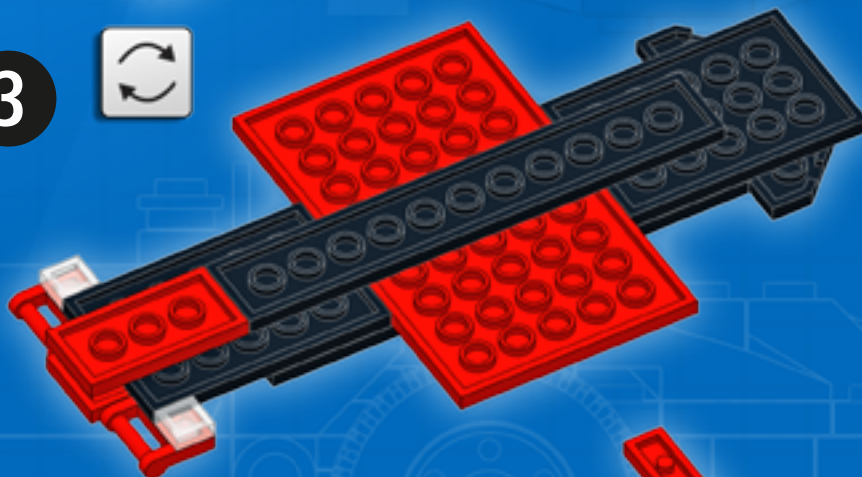
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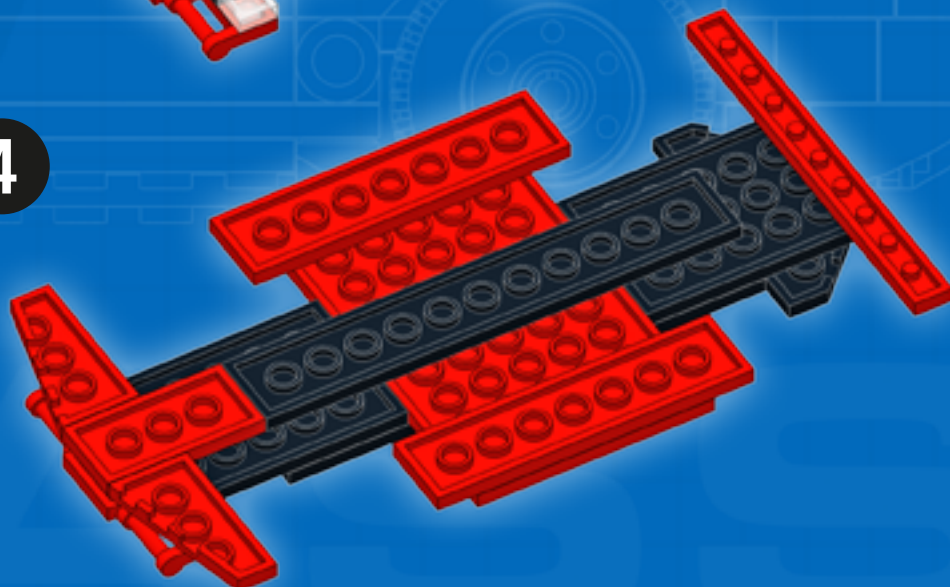
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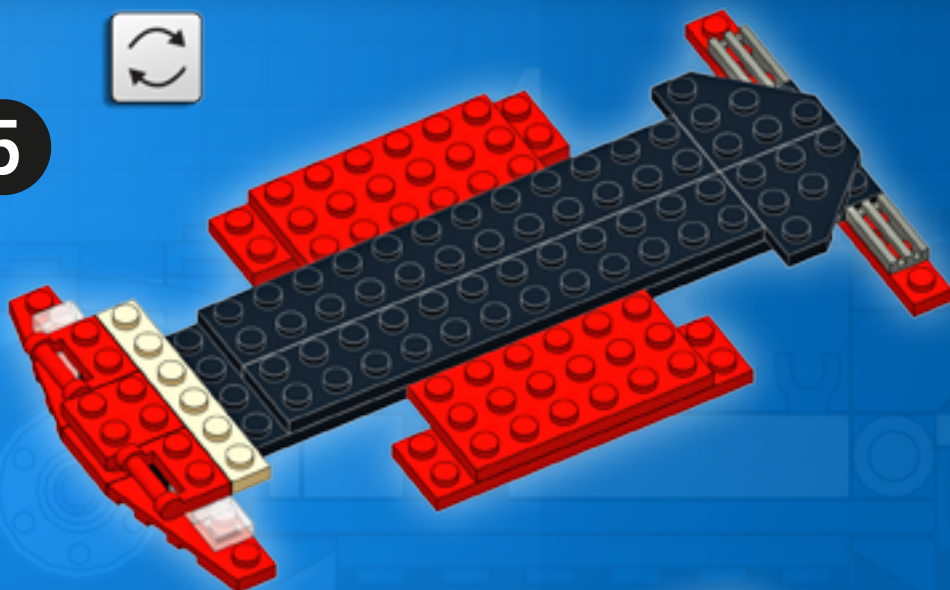
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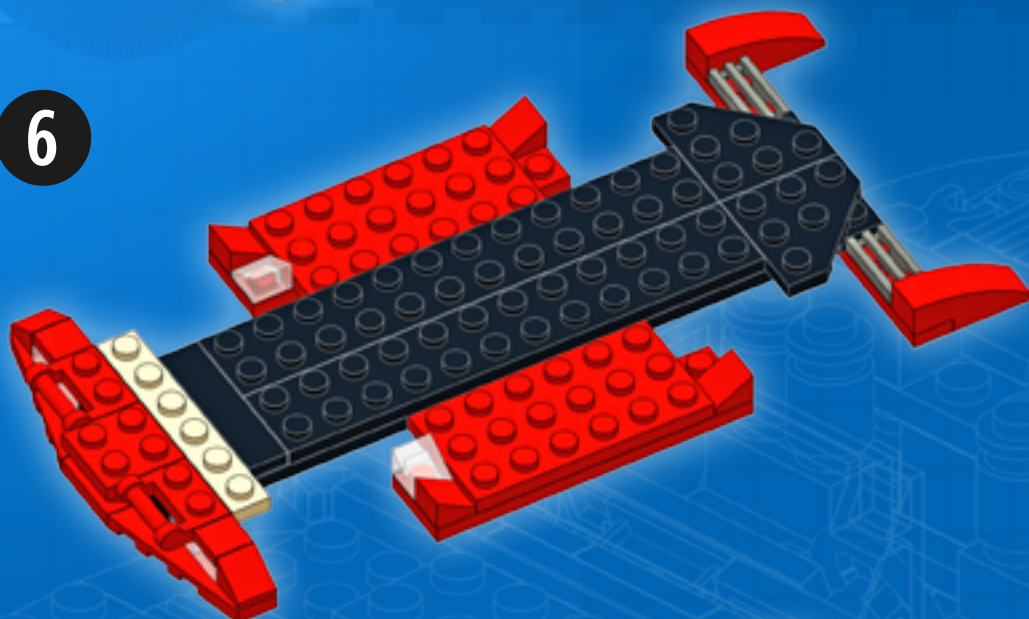




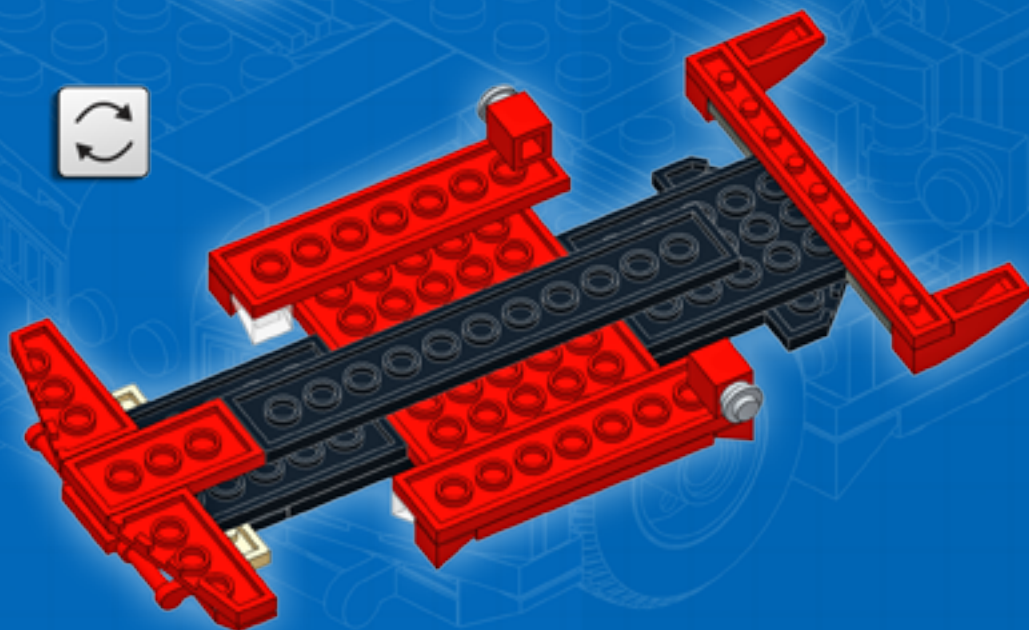
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6

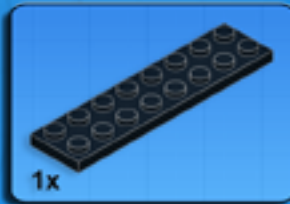


7





8



1x



2x

2x



1x

4x

2x



2x

2x



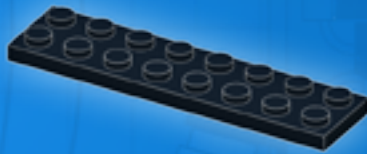
1x

2x

2x

1x

1



2



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4



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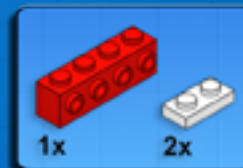


2x

2x

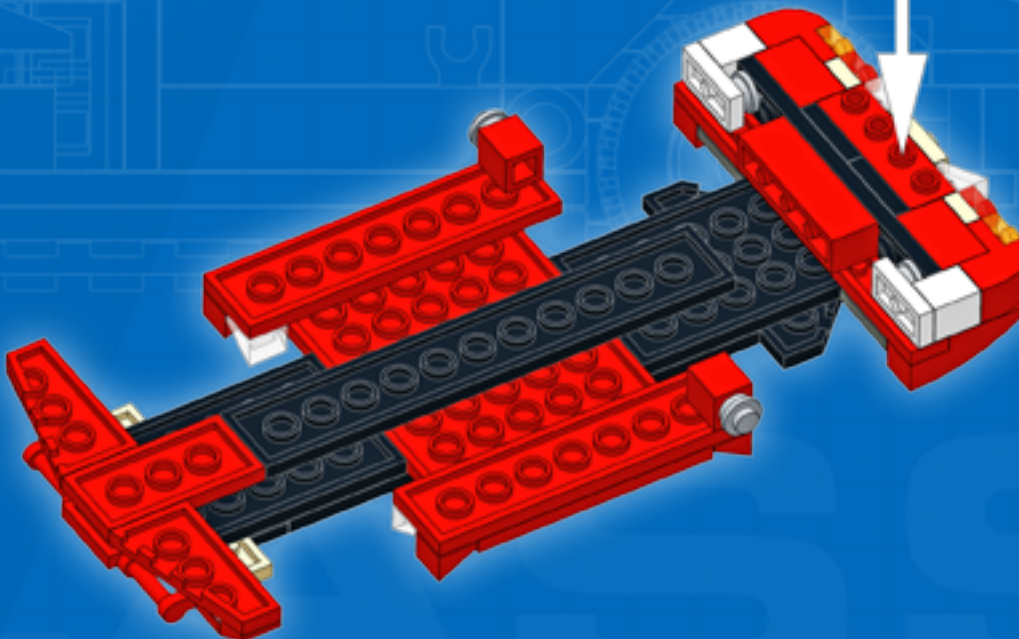
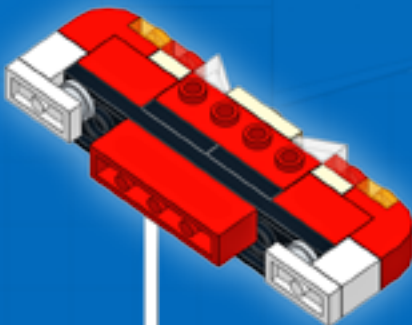


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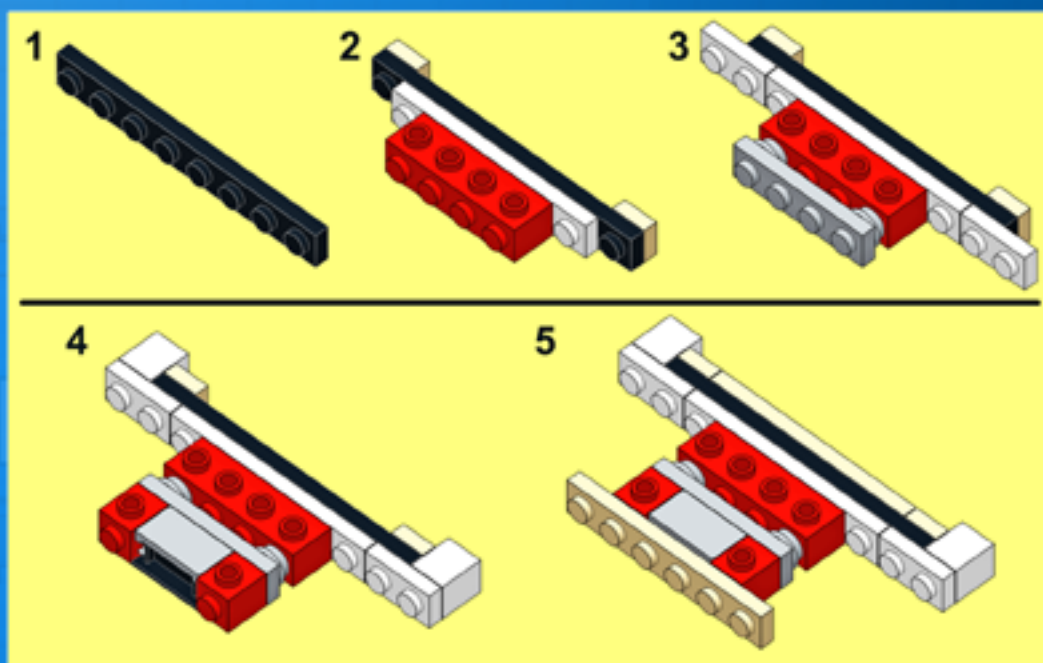


1x

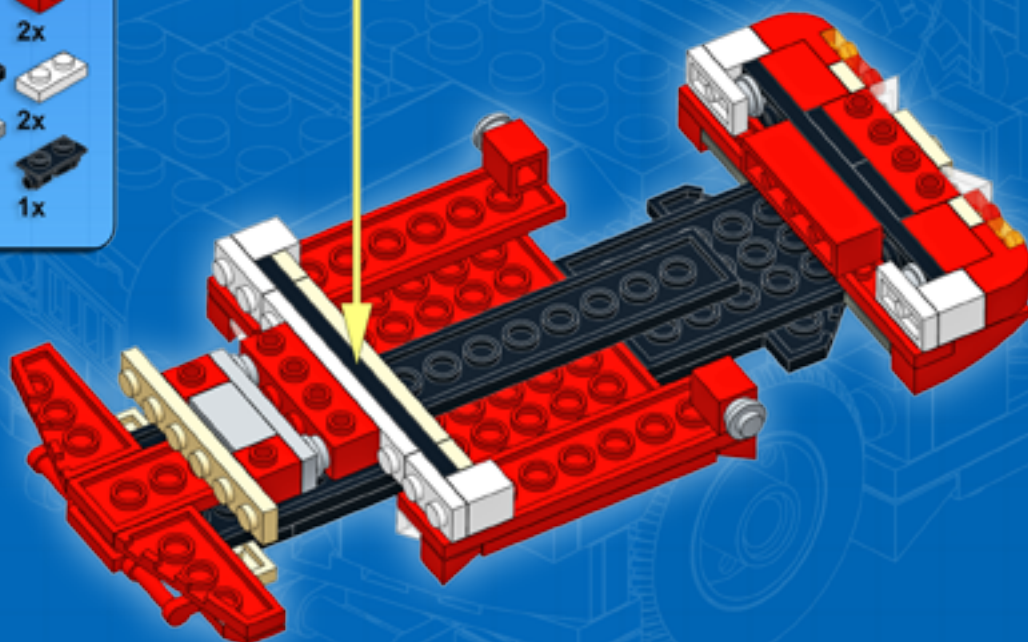
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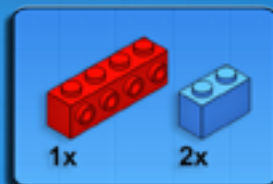
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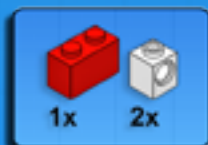




12



1



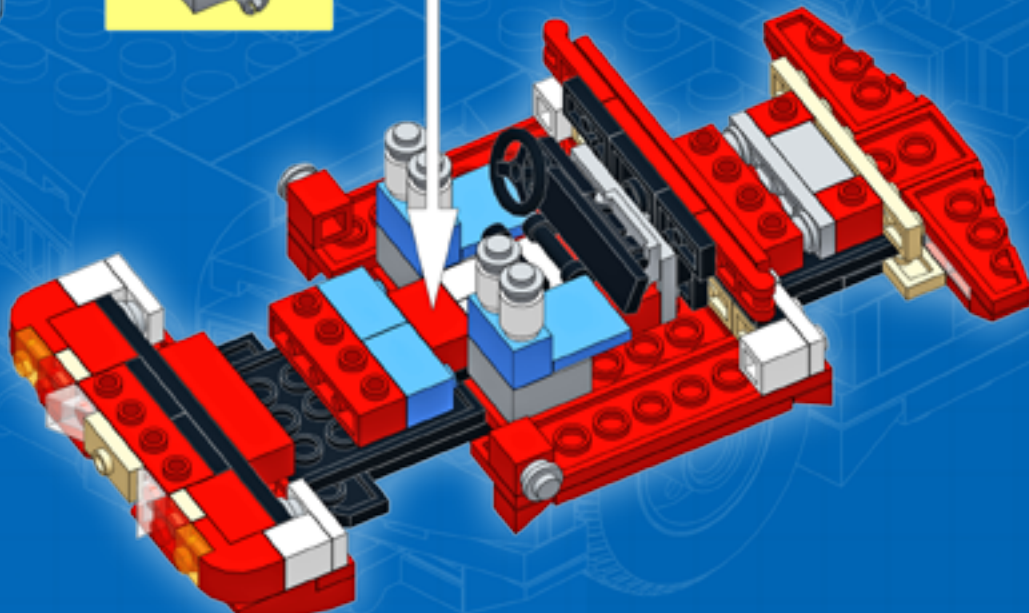
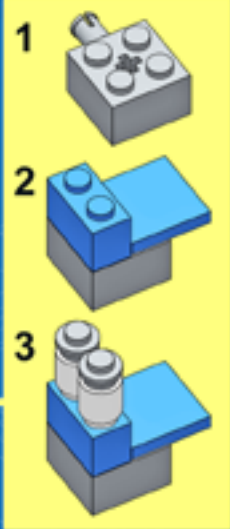
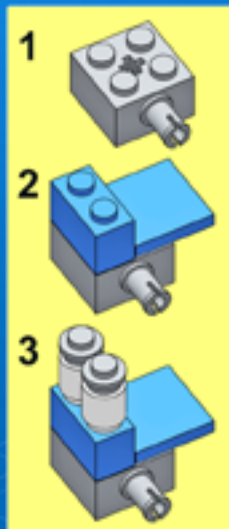
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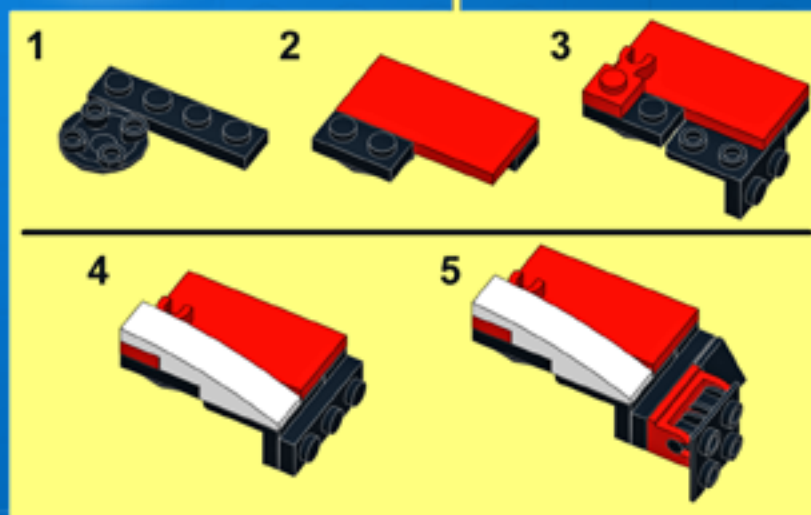
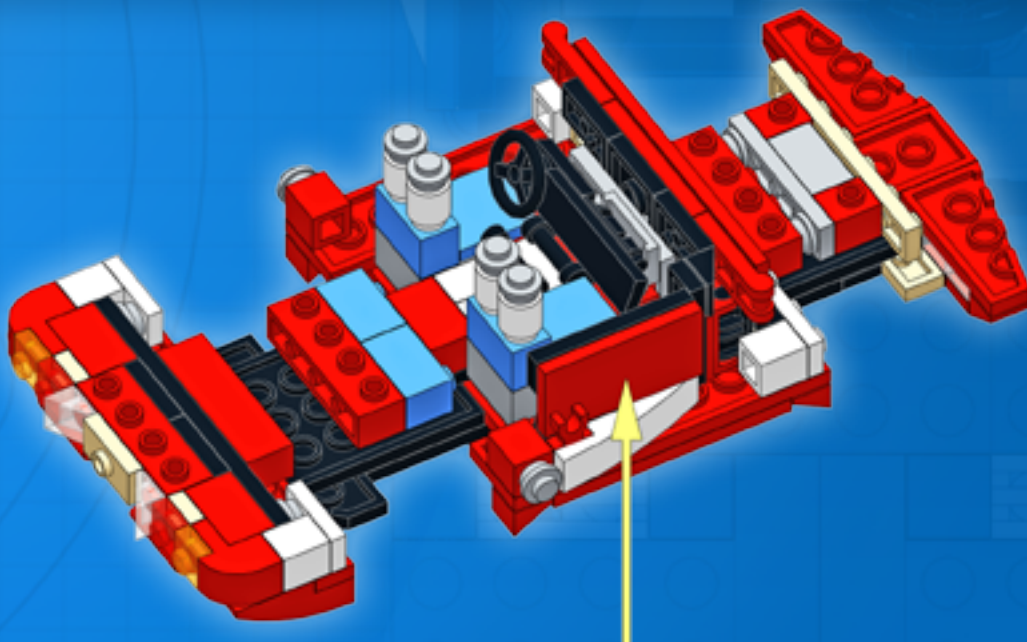
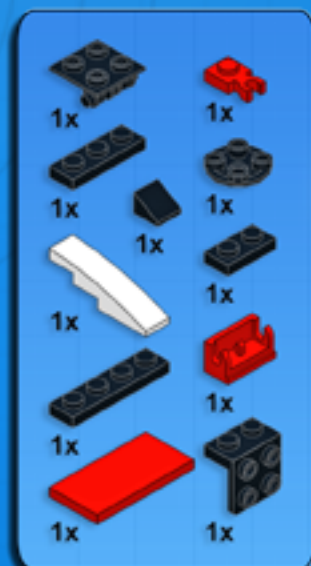


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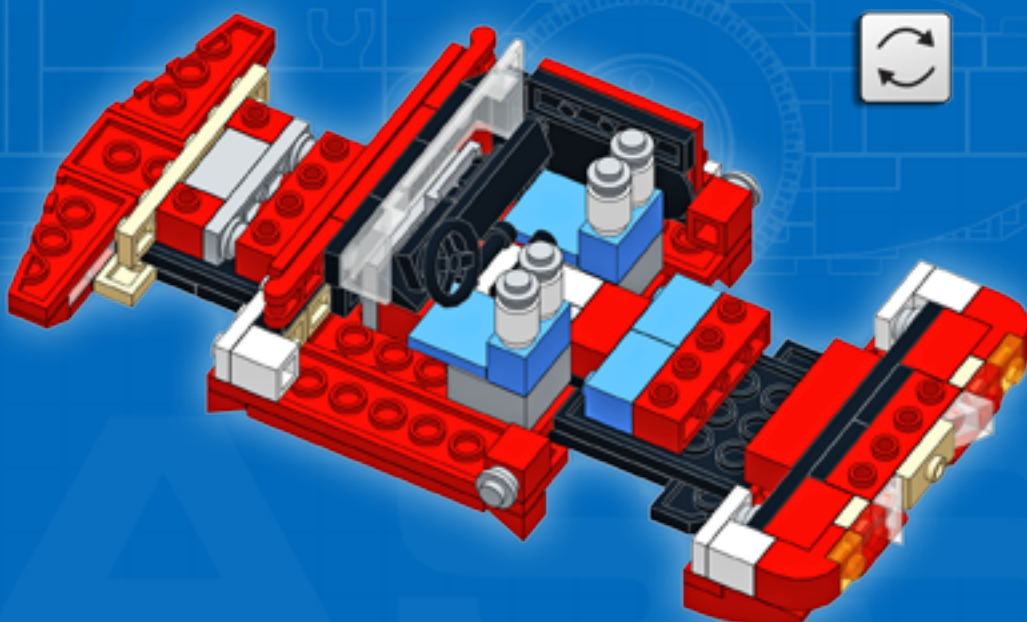




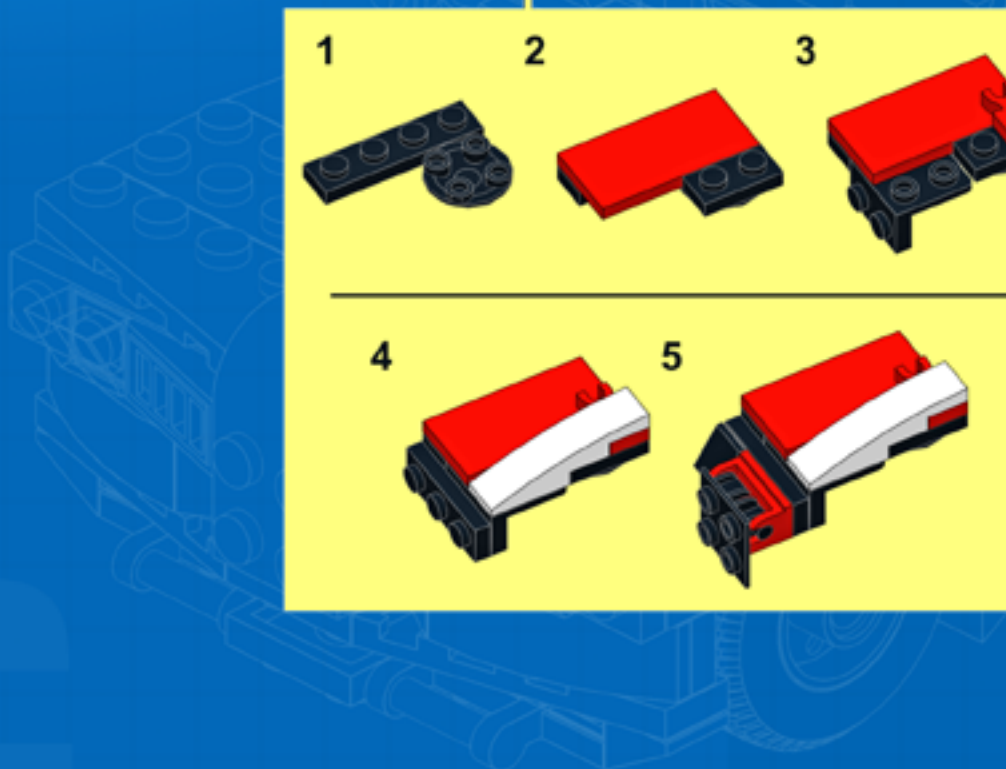
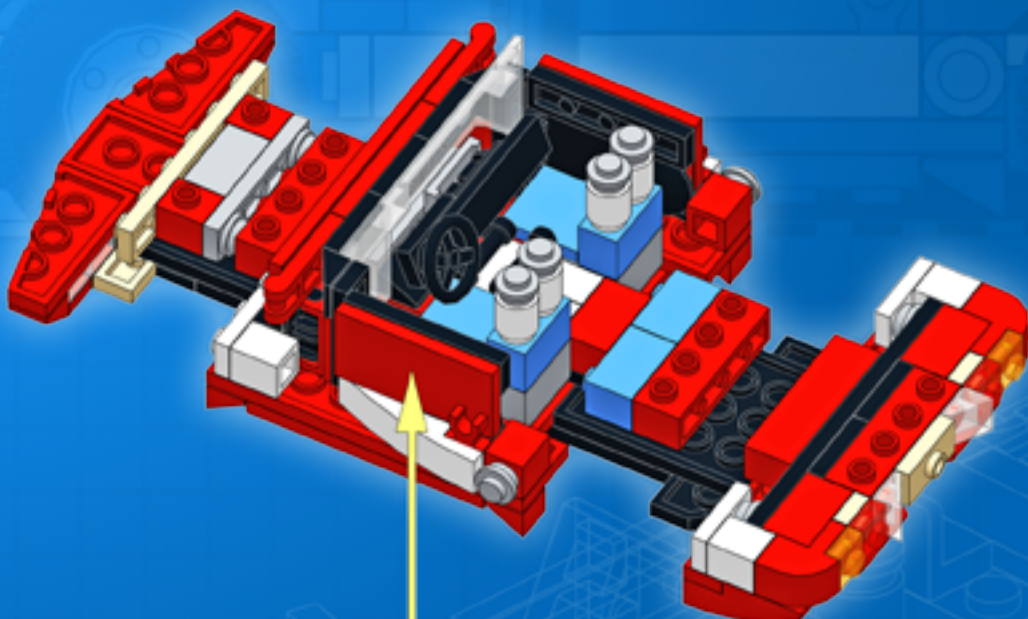
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14

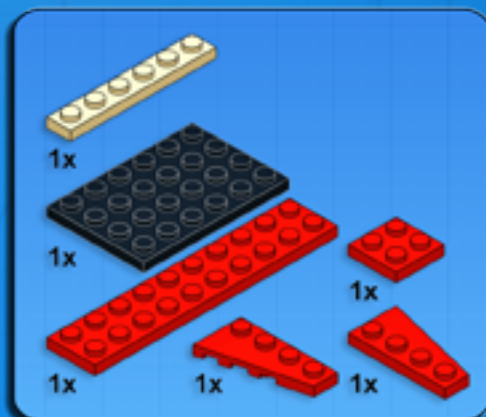




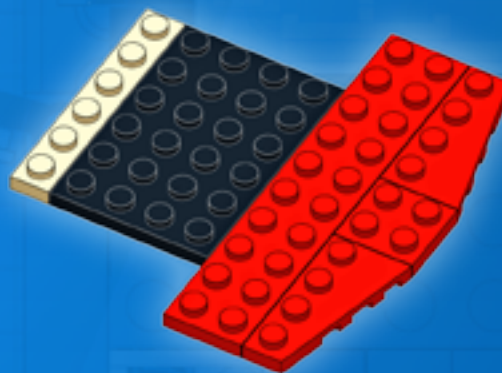
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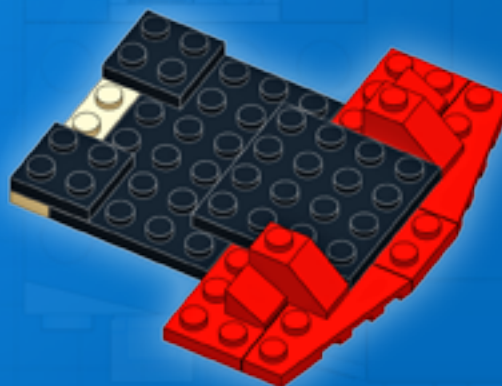
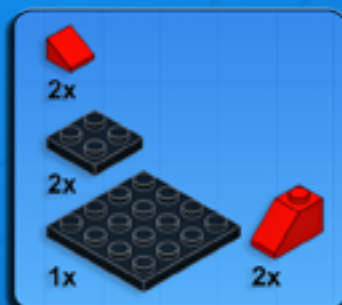
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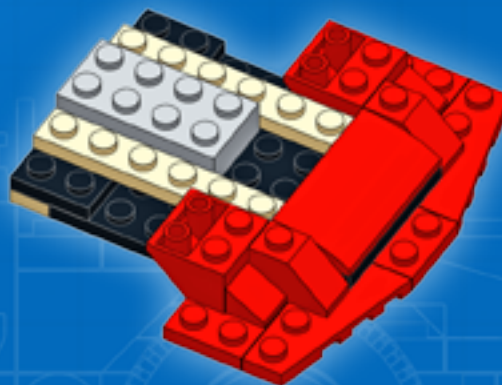
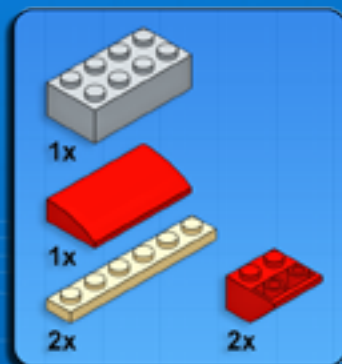
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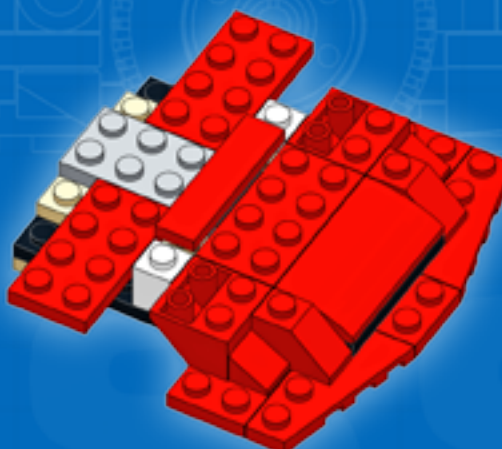
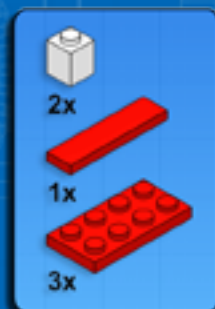
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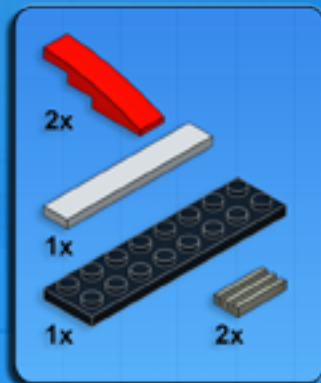
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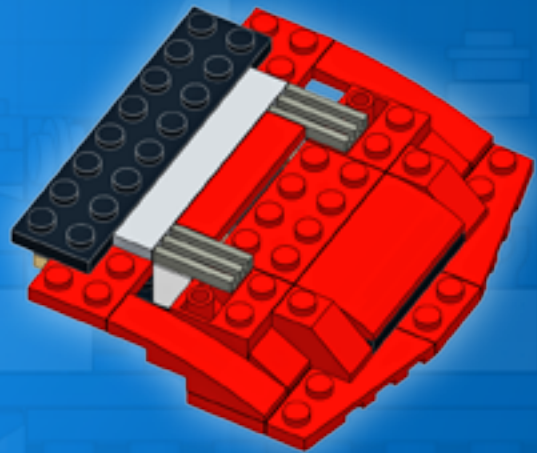
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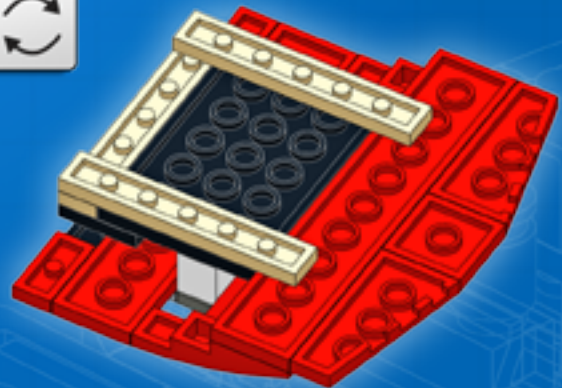




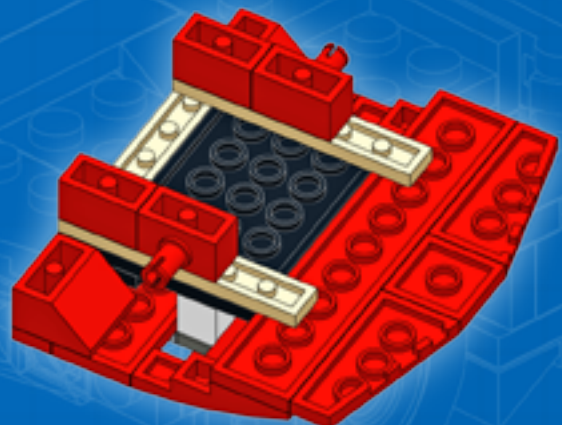
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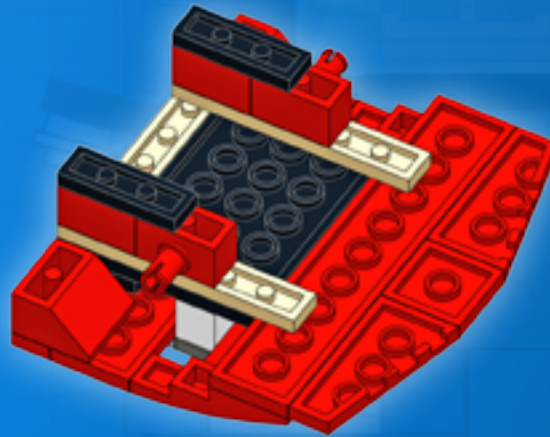


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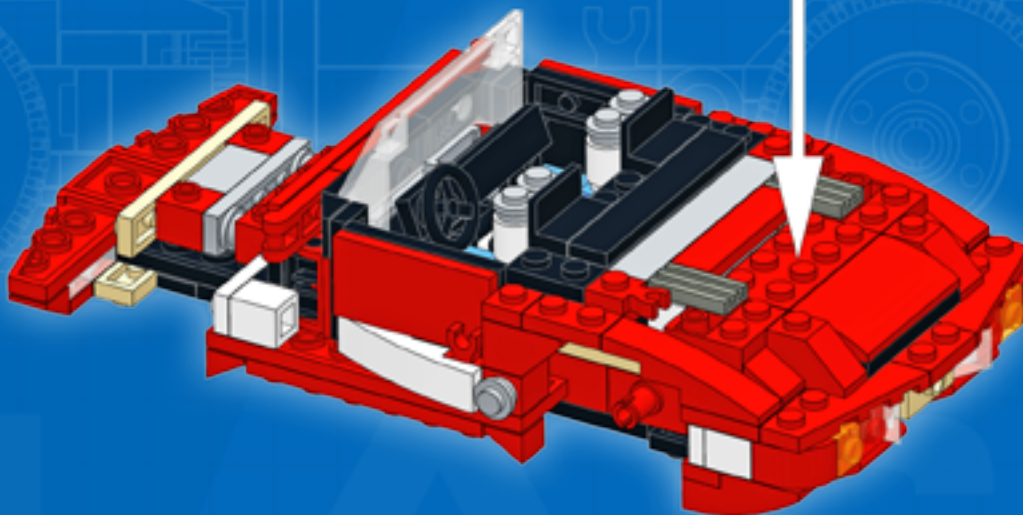
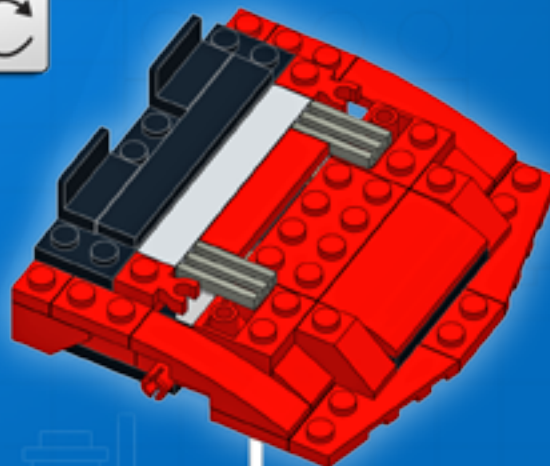




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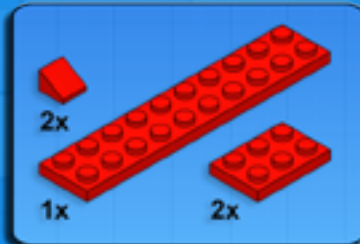
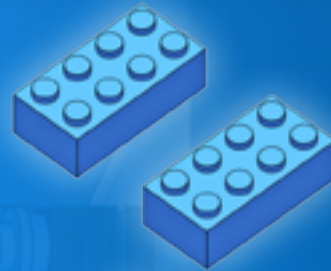




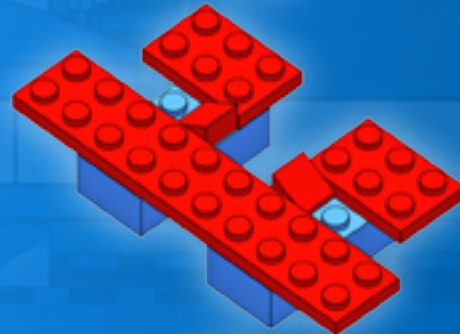
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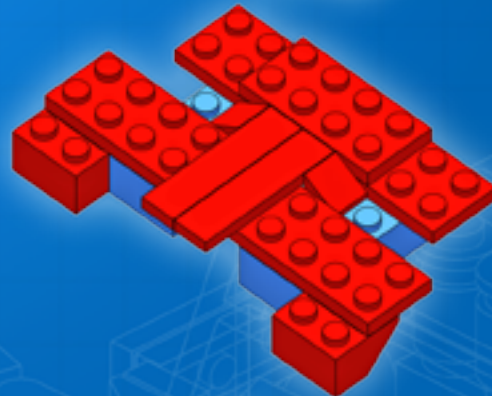
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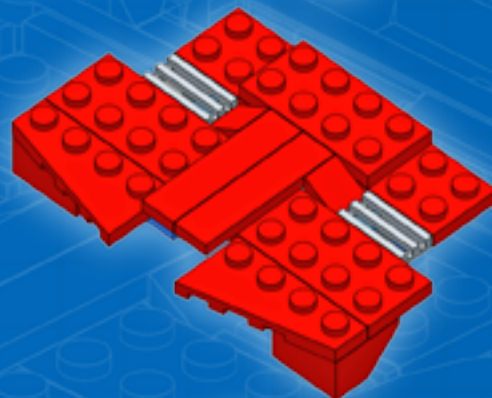
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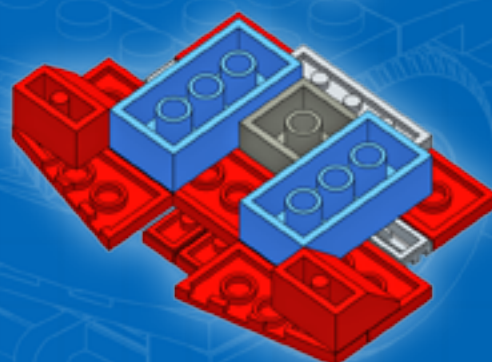
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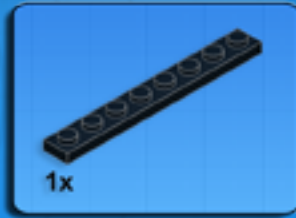


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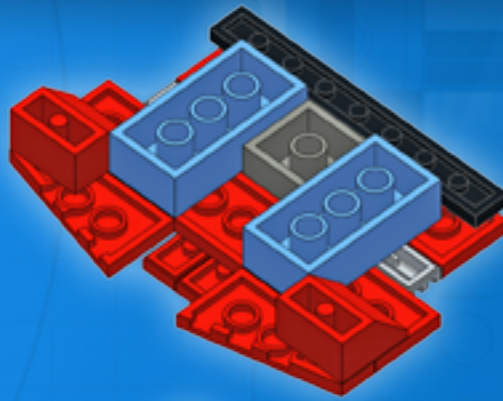


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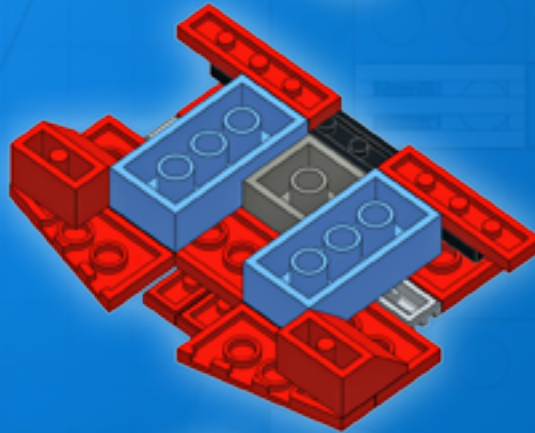




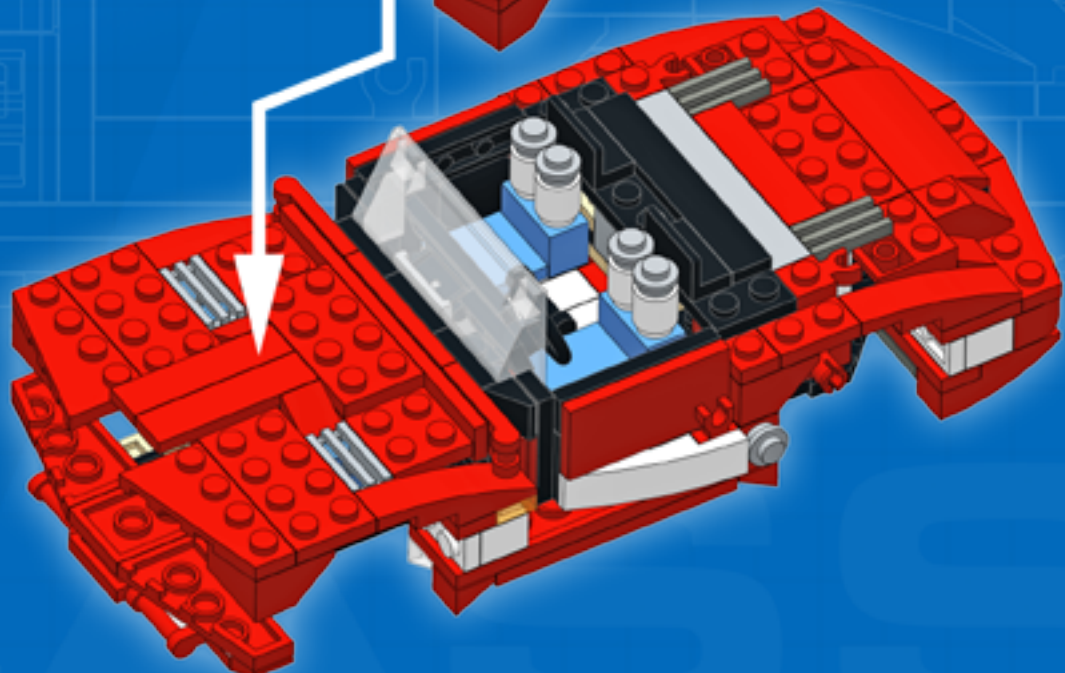
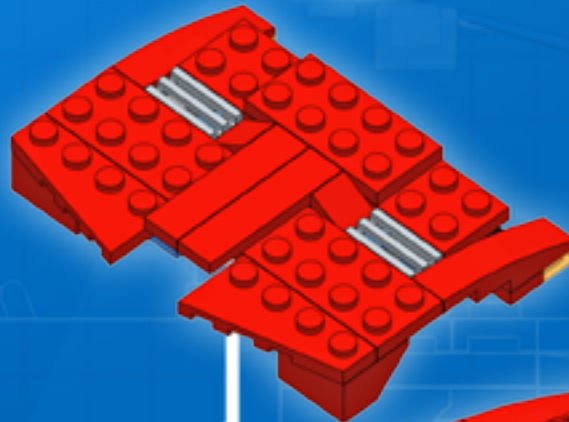
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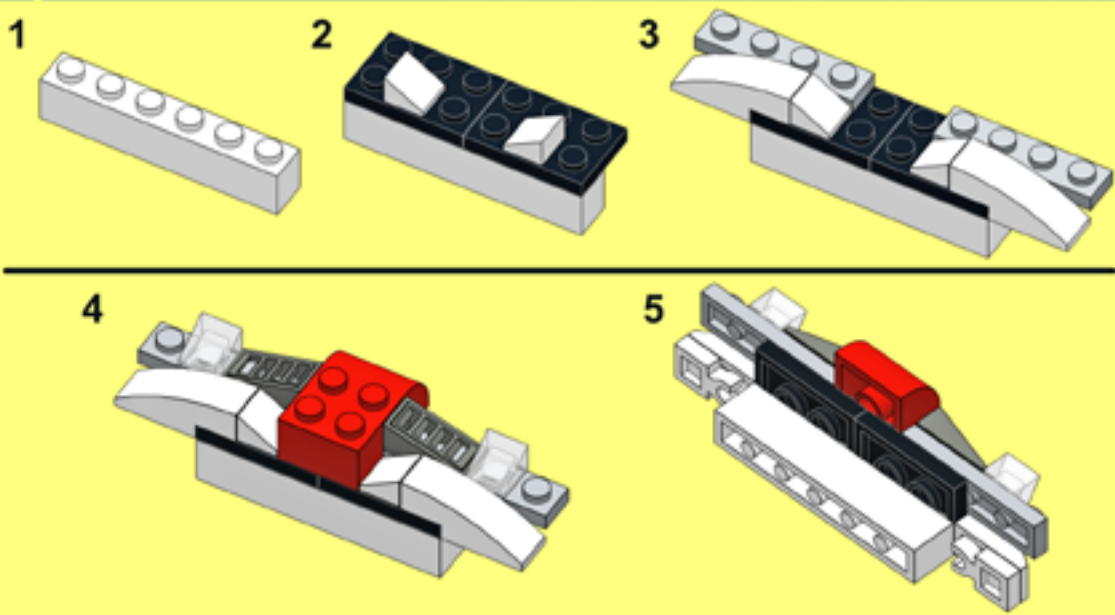
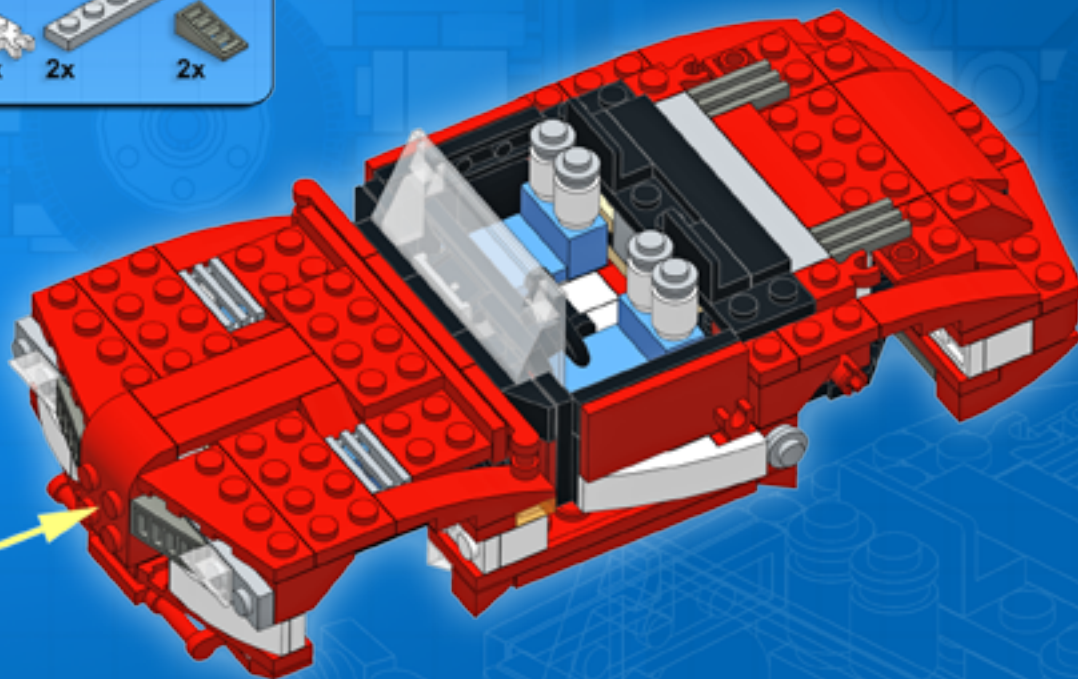
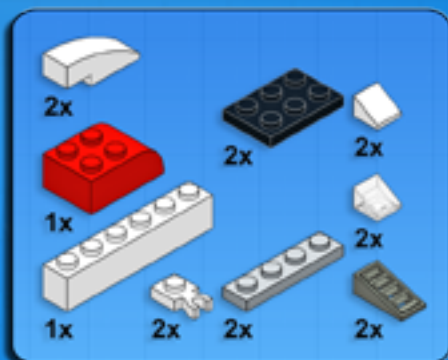


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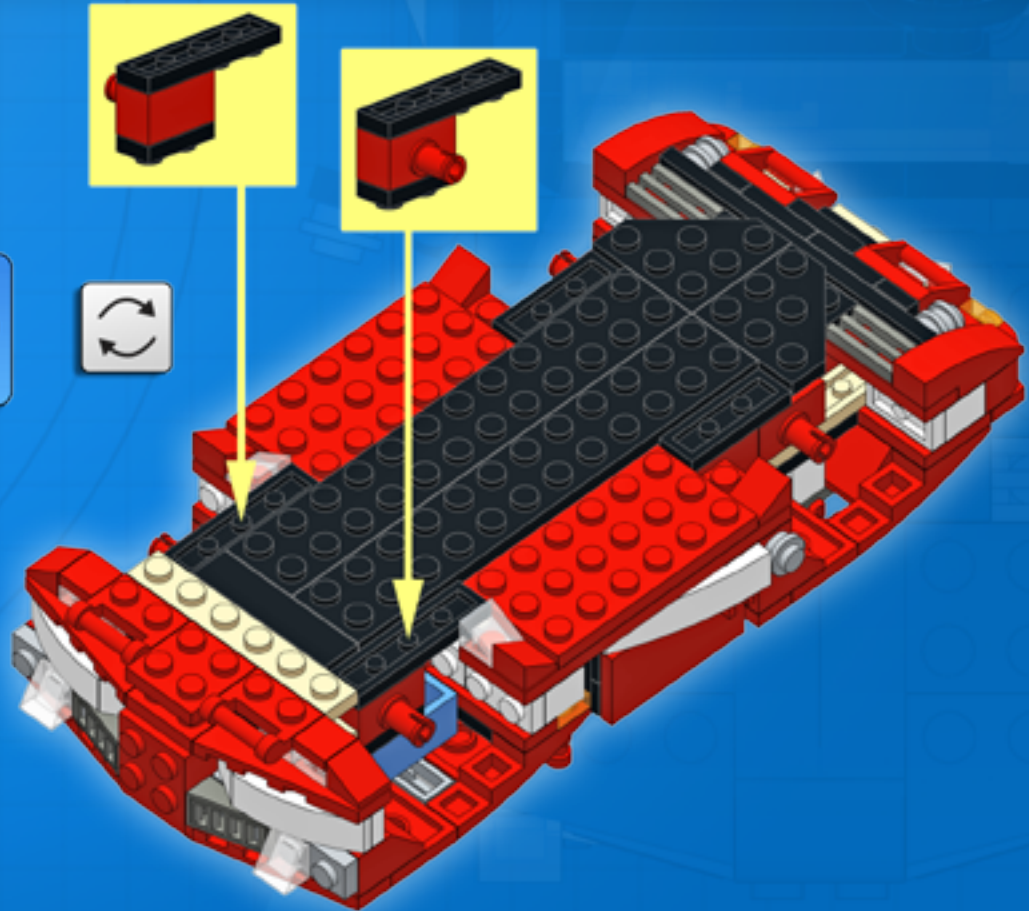


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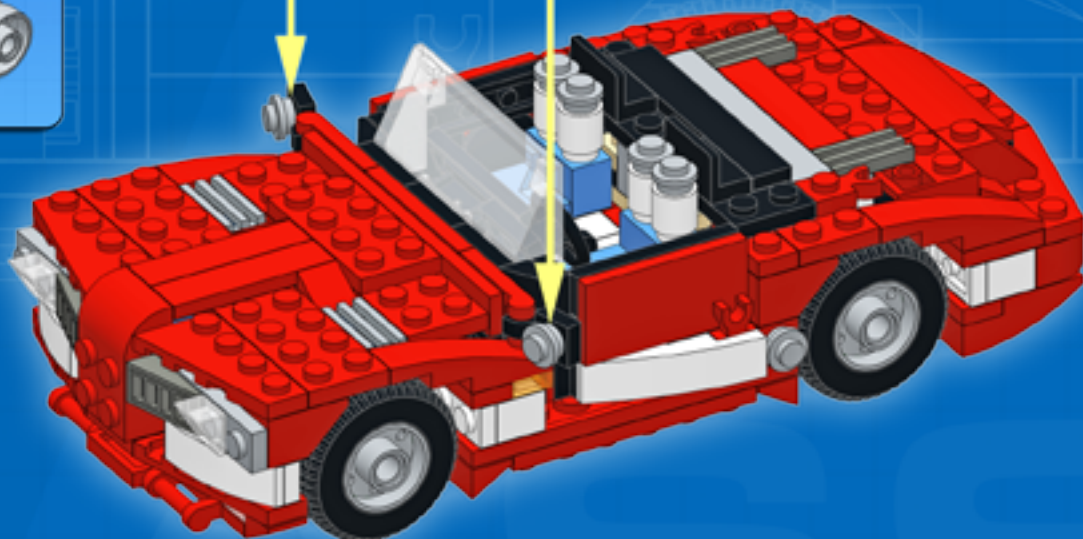




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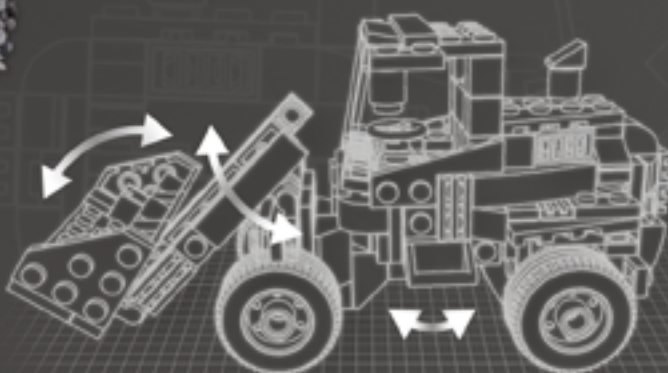
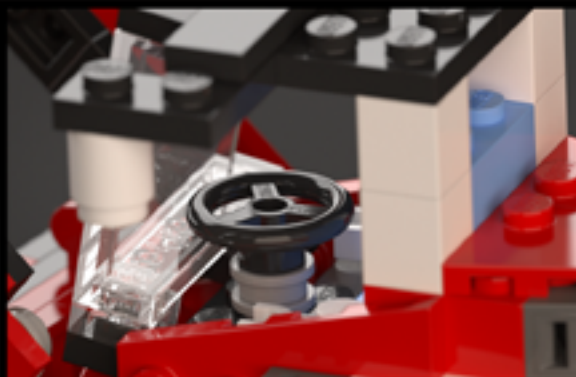
20







Complexity   
Functions   
Pieces 



## WHEEL LOADER

Design notes: heavy-duty construction, central cabin

### Technical specifications:

Dimensions (l × w × h): 21 × 10 × 11 studs

Wheelbase: 9 studs

Axle width front/rear: 8/8 studs

Features: articulated steering, arm elevation, tipping bucket



1

1

 $2x$ 

2

1x

1x

1x

3

2x

2x

2x

4

 $2x$ 

1x

1x

5

 $2x$  $2x$  $2x$ 

6

1x

2x

7

1x

1x

2x



2



1



2



3



4



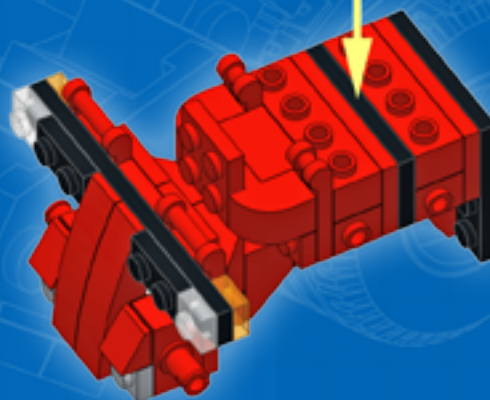
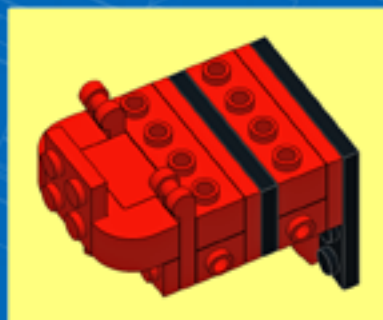
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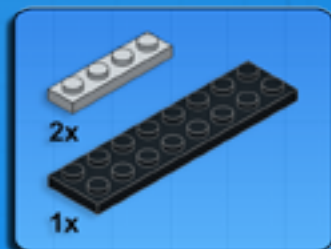
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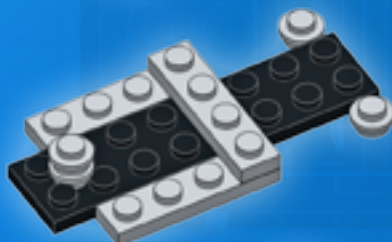
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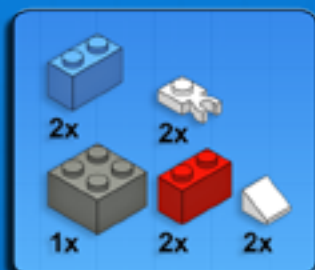
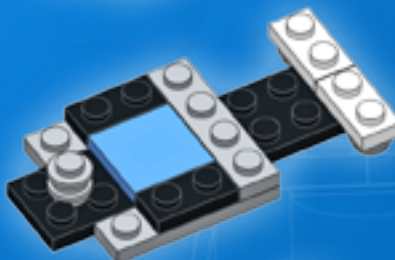
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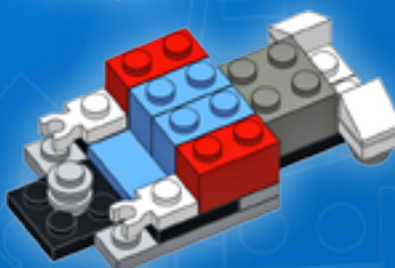
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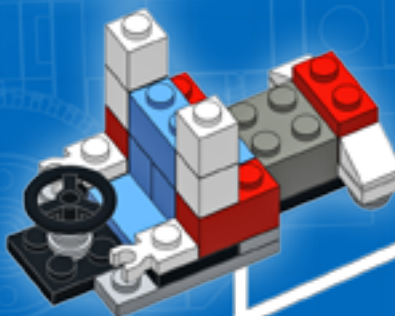
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### 4

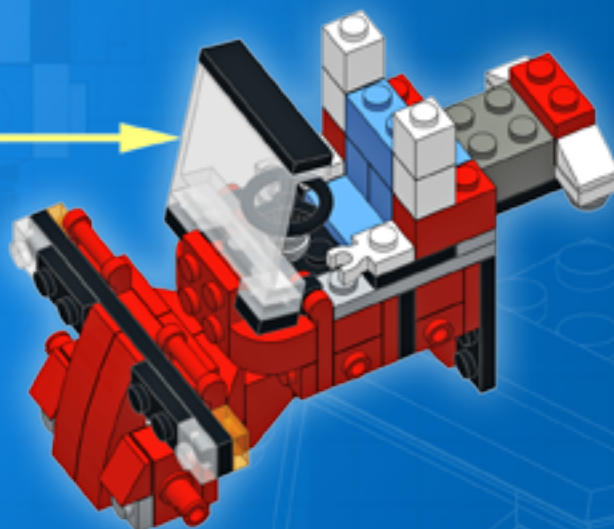
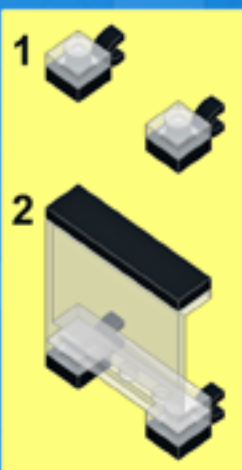


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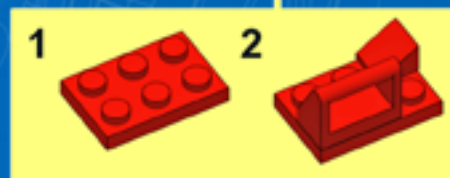
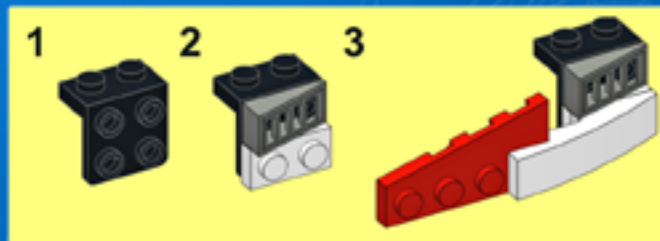




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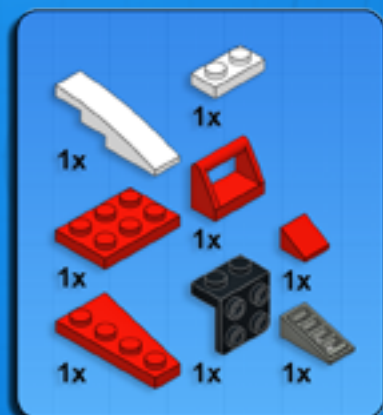


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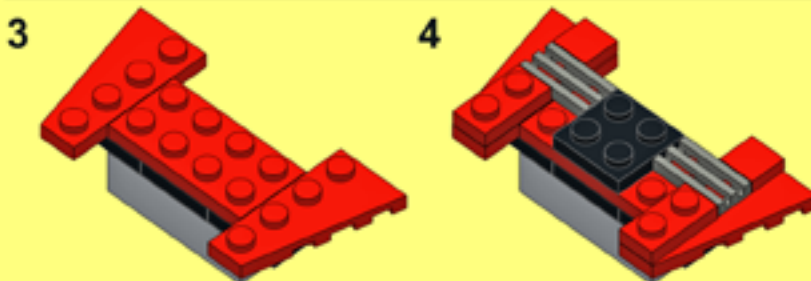
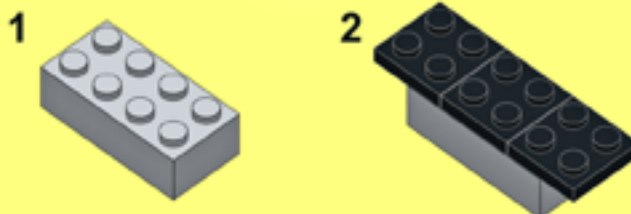
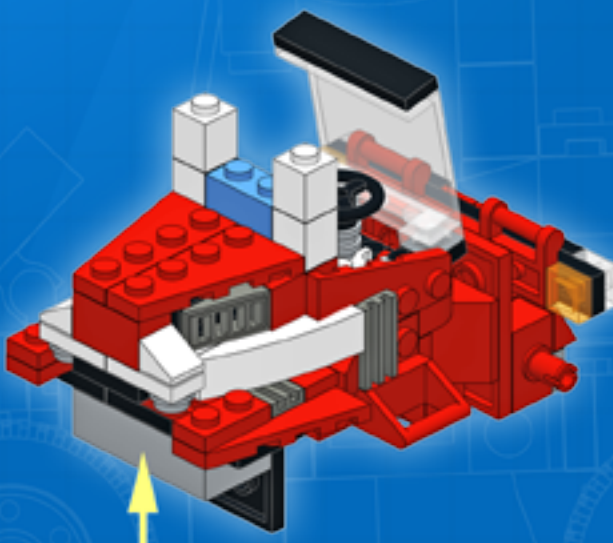
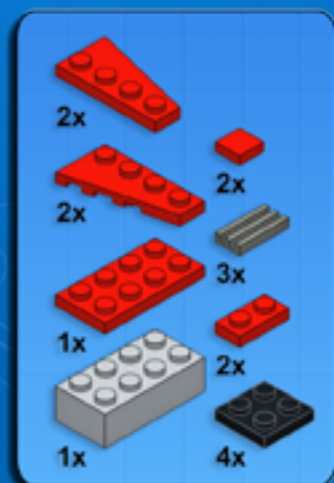




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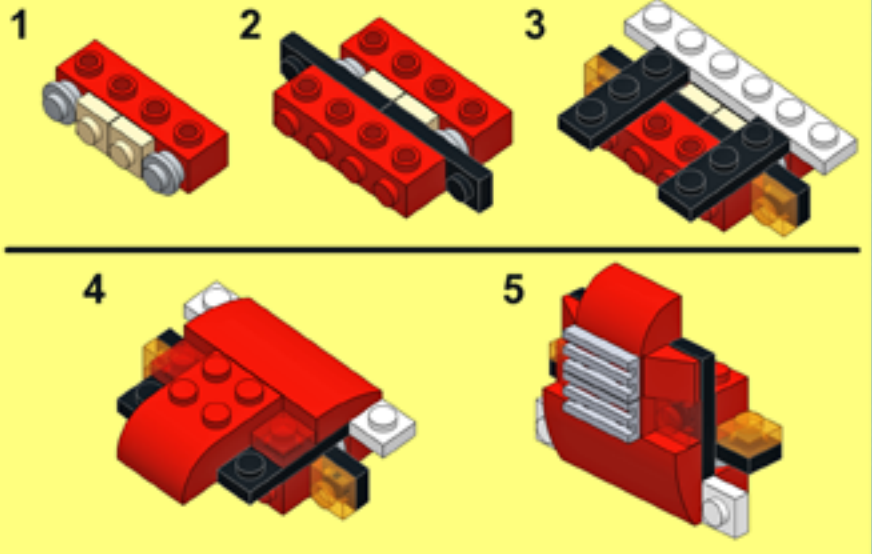
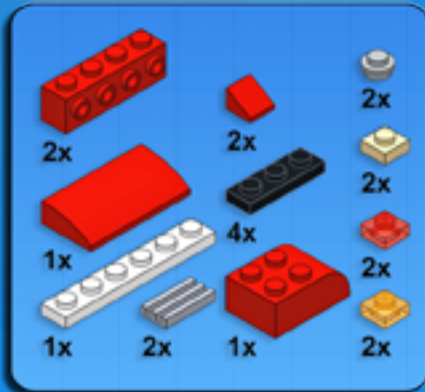


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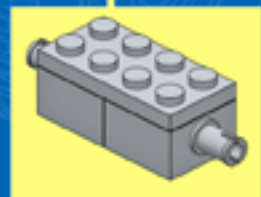
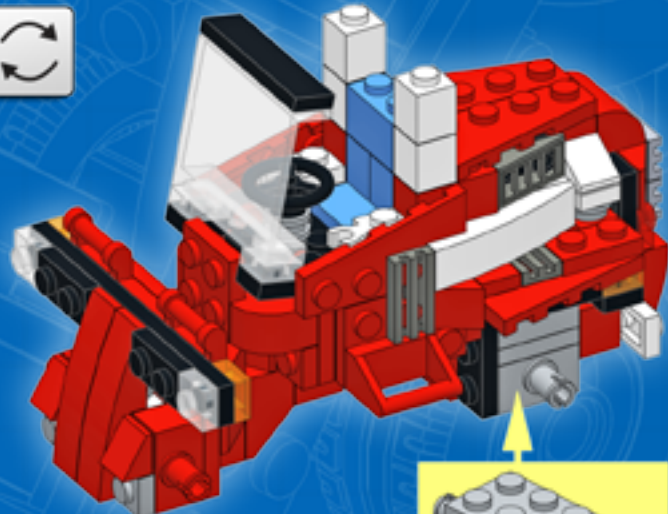




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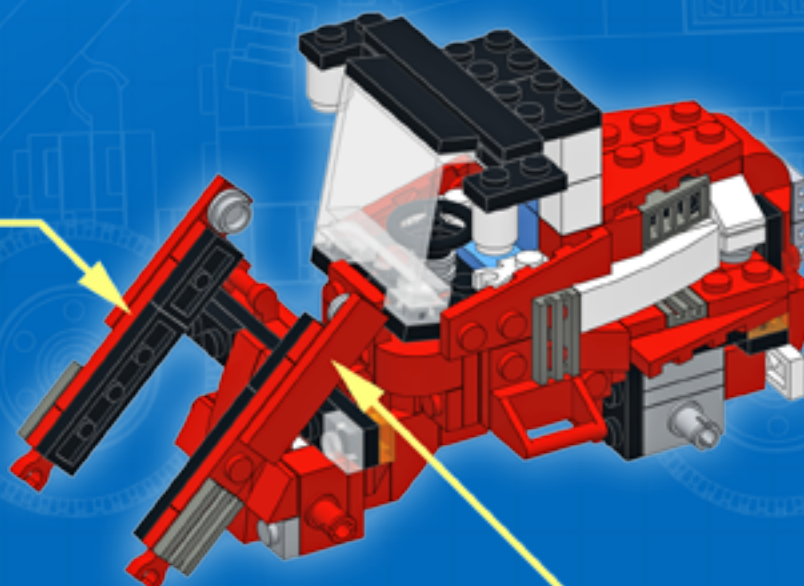
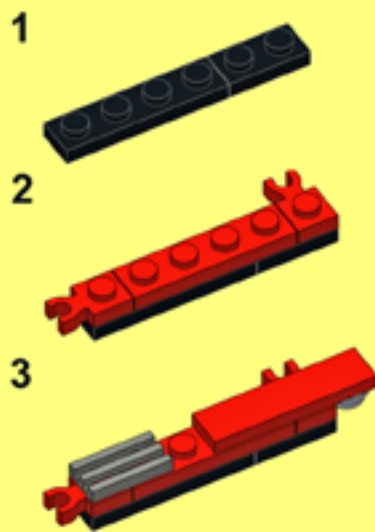
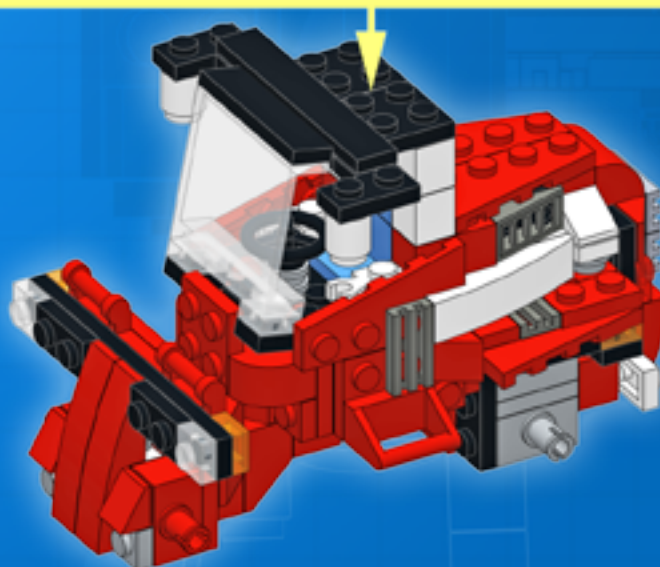


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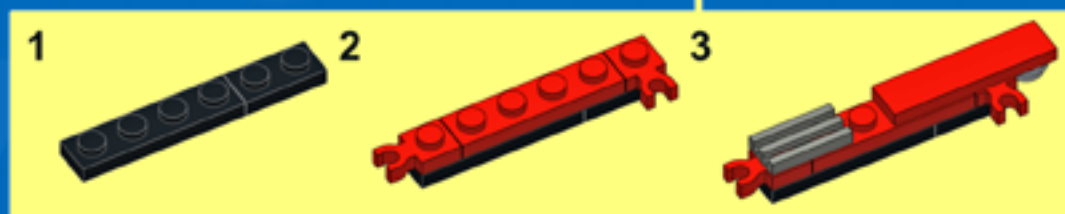




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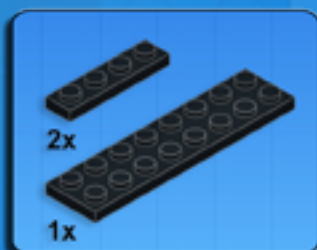


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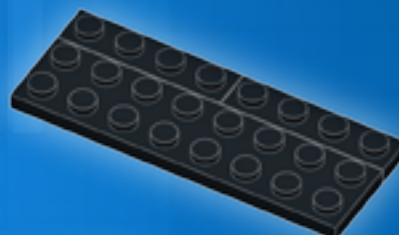




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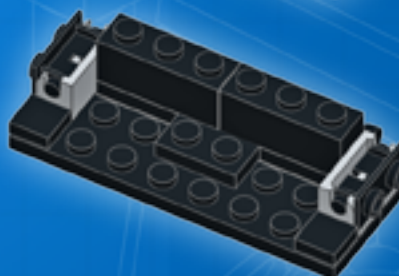
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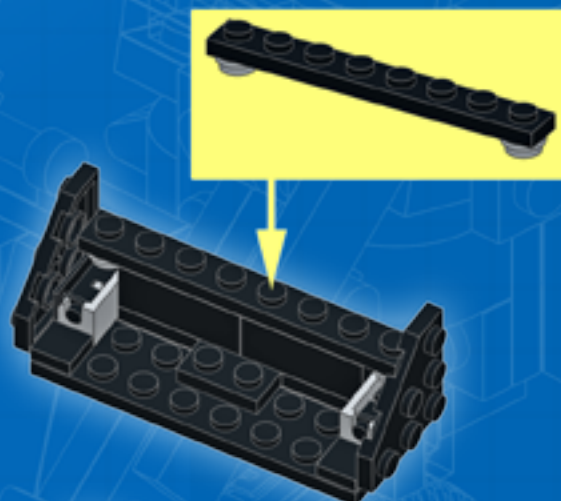
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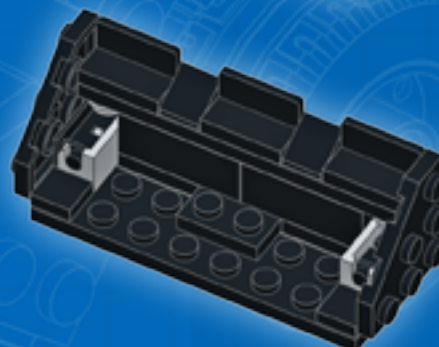
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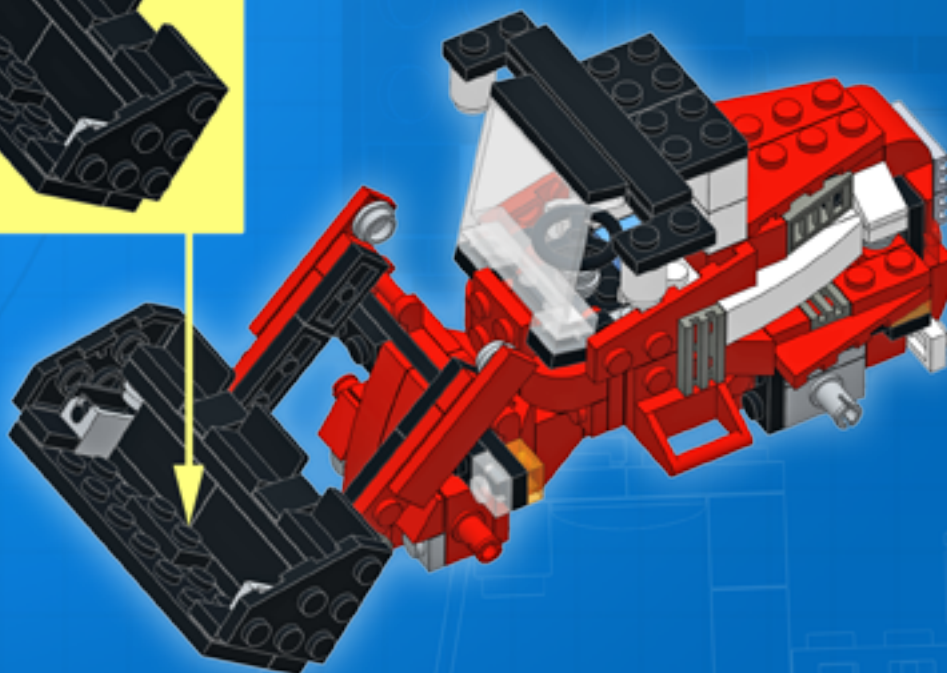
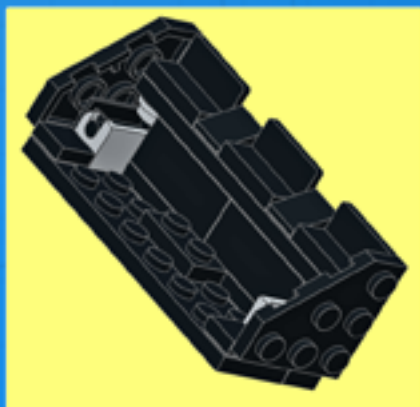


4



5




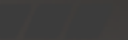
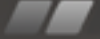


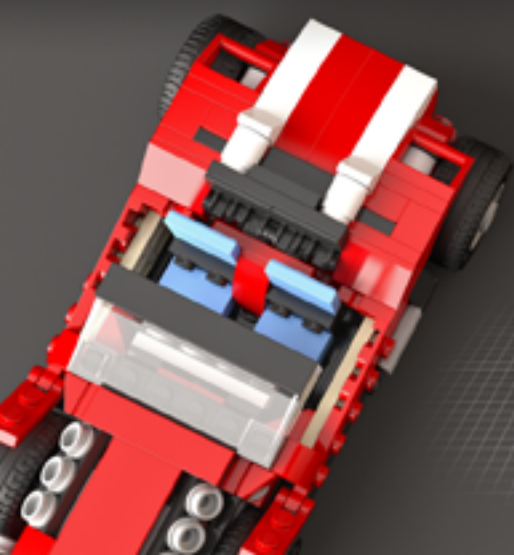
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Complexity   
Functions   
Pieces 

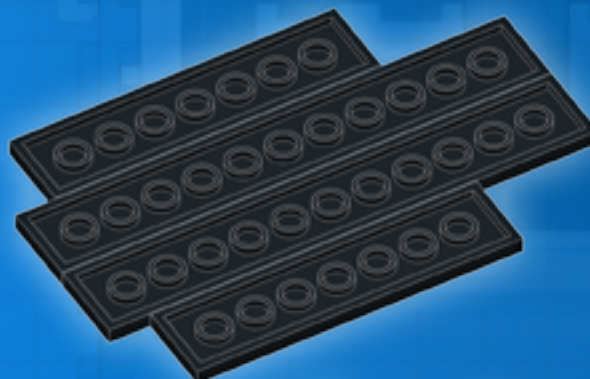
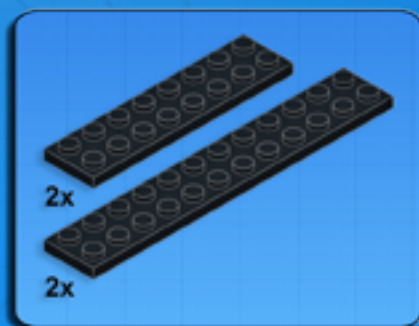
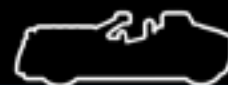


## STREET ROD

Design notes: wide rear axle, lowrider, exposed V6 engine, detailed two-seat interior

### Technical specifications:

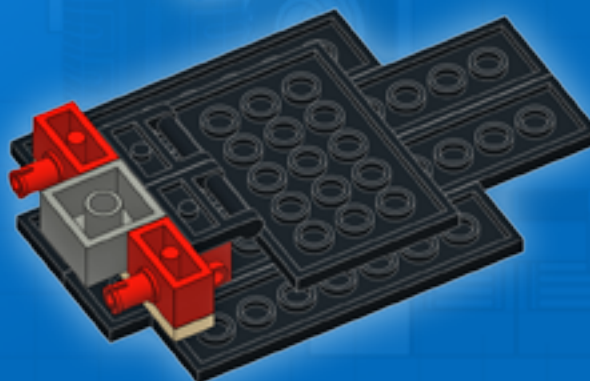
Dimensions (l × w × h): 19 × 10 × 6 studs  
Wheelbase: 12 studs  
Axle width front/rear: 9/10 studs



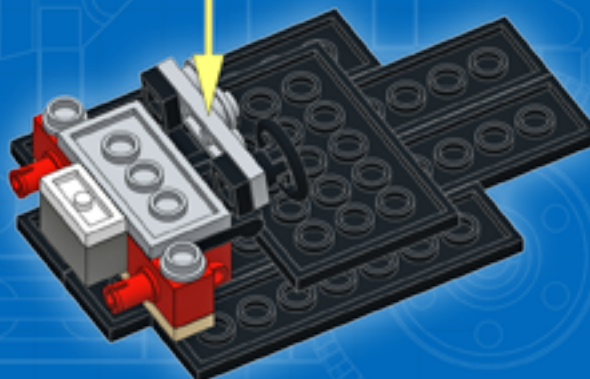
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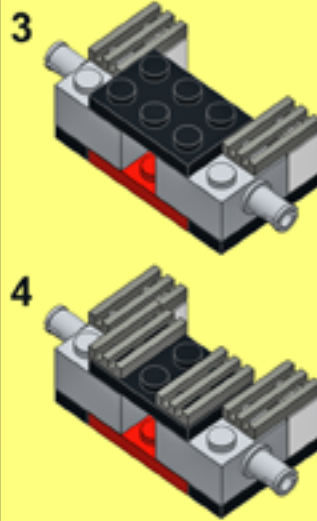
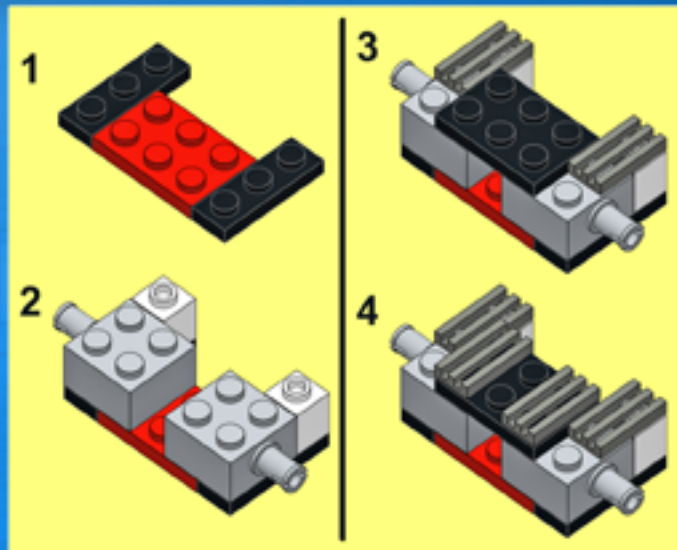
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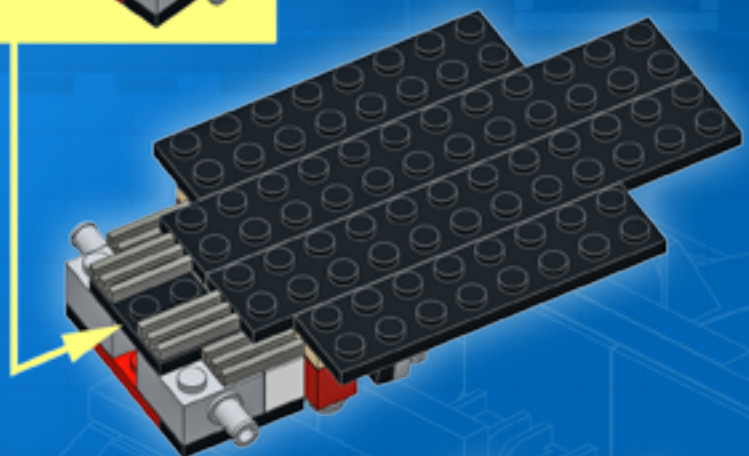
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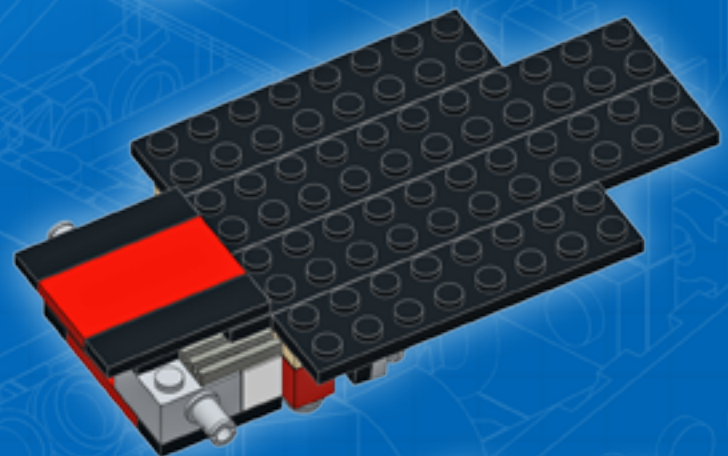




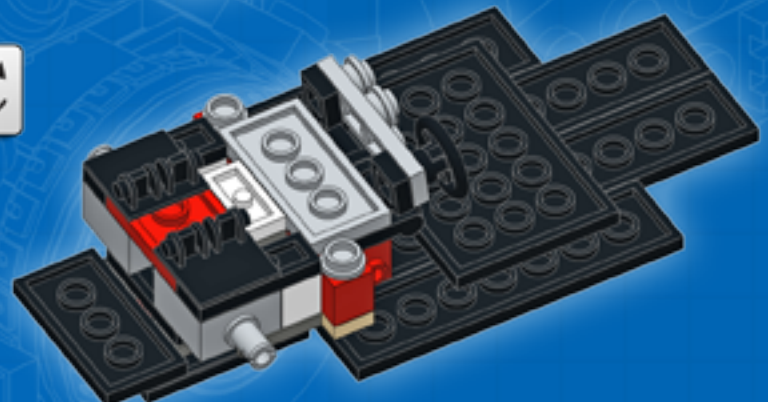
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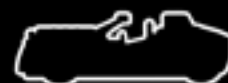


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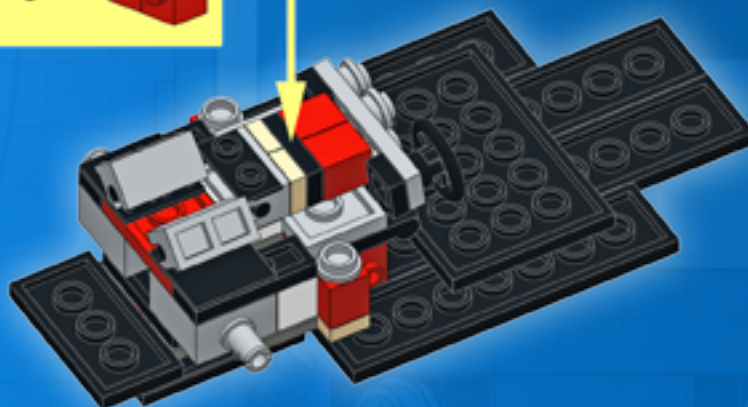


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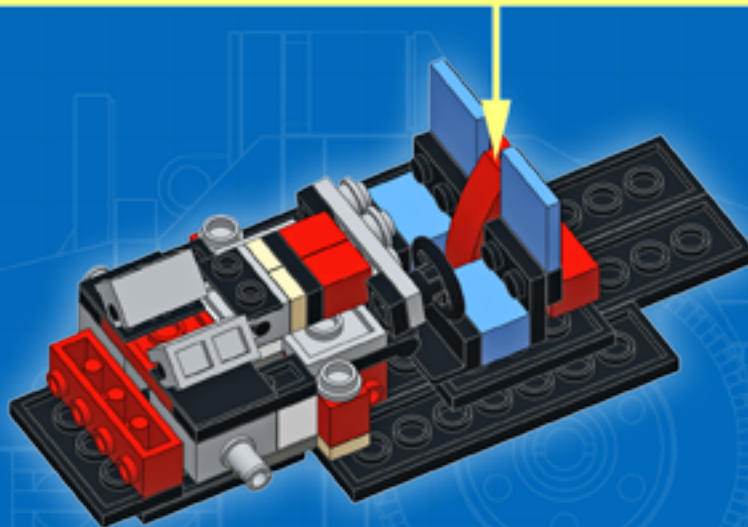
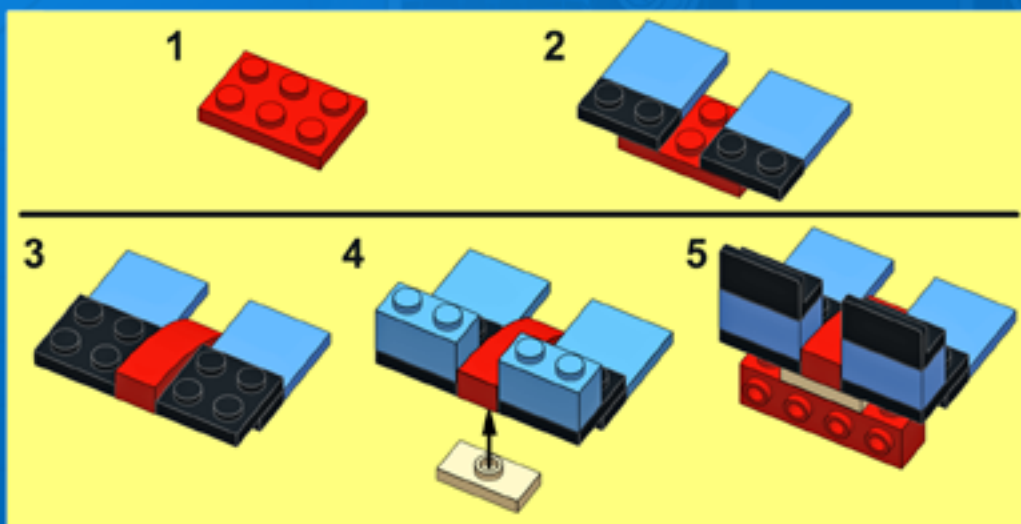




8



9





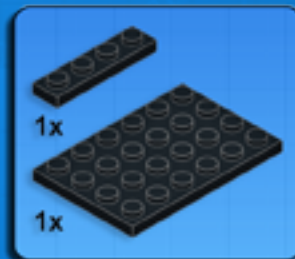
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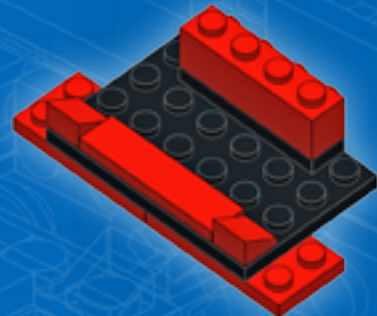
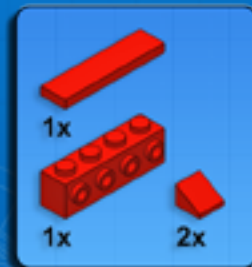
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2

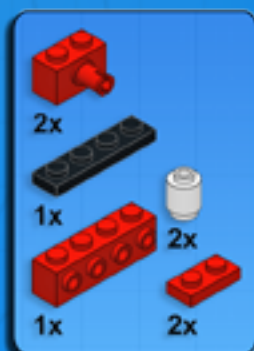


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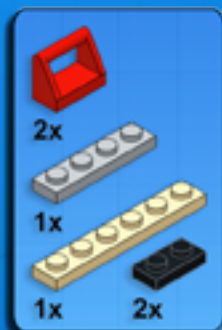
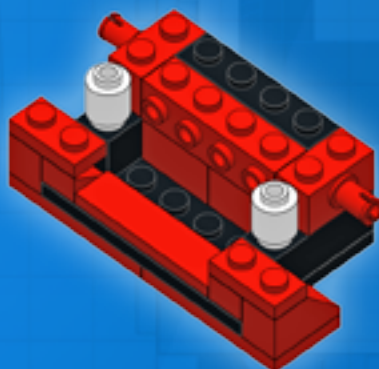


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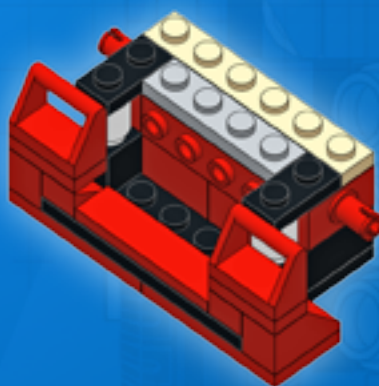




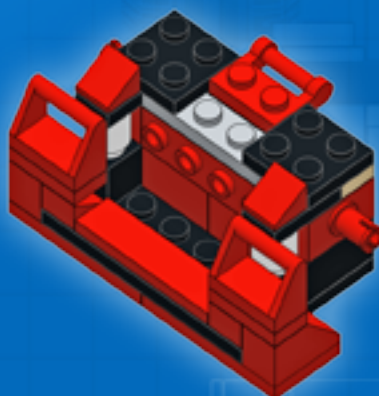
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6



7



8



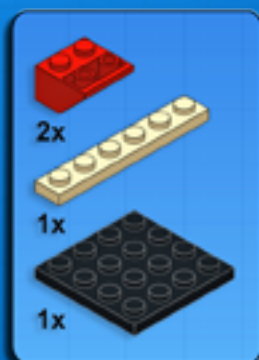
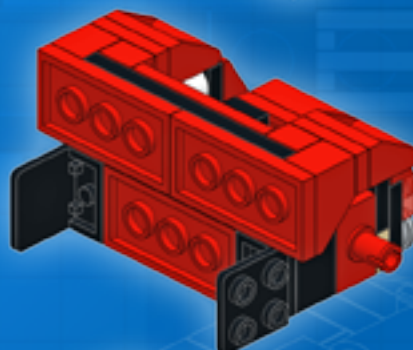




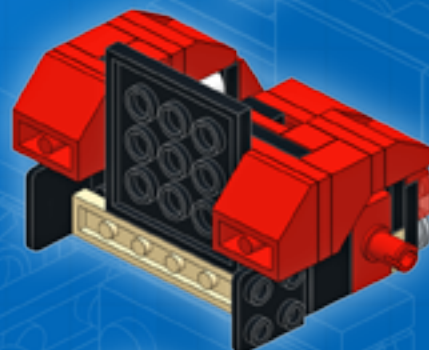
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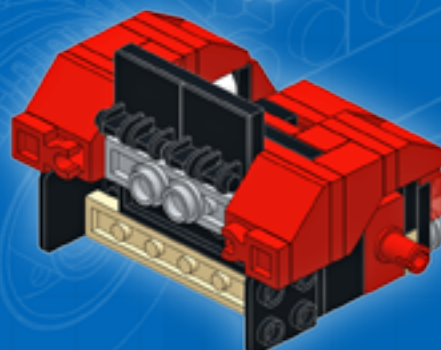
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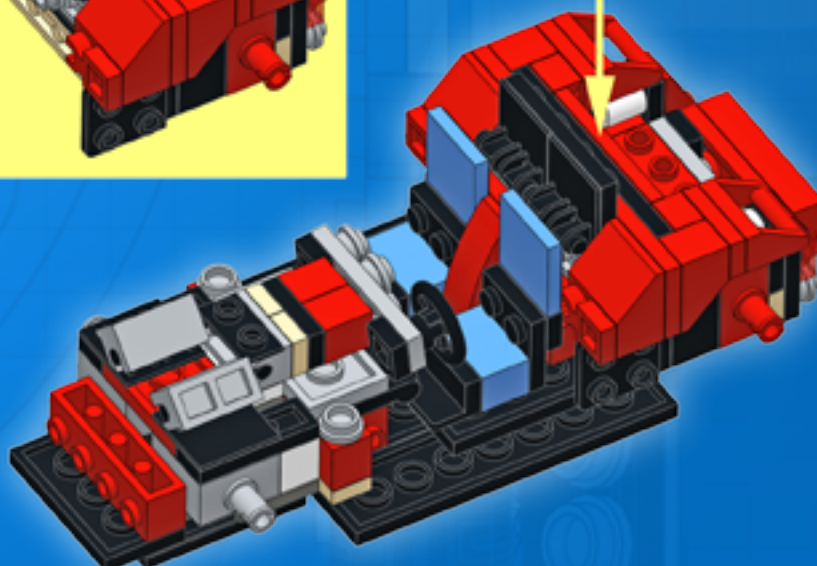
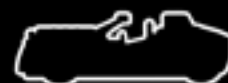


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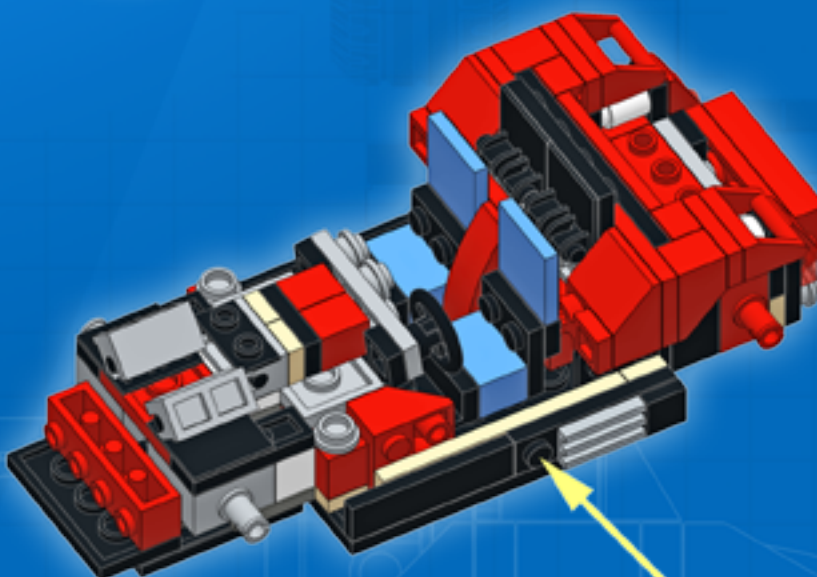


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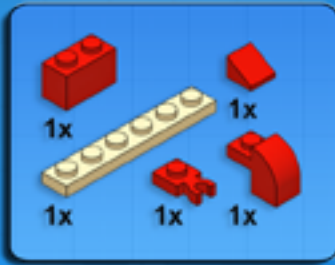




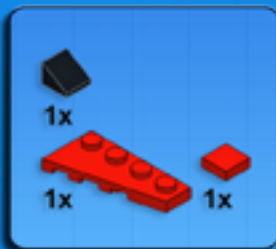
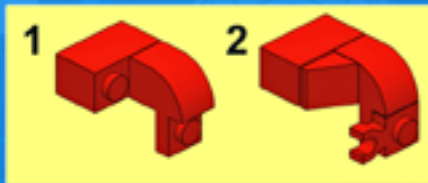
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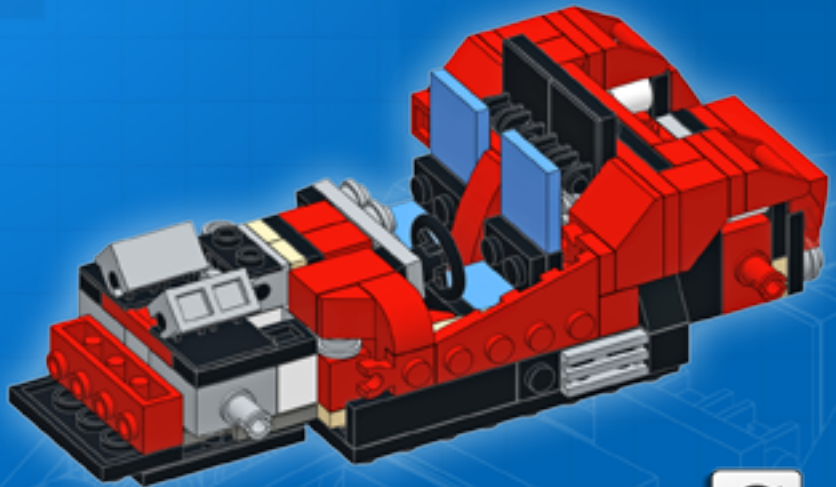




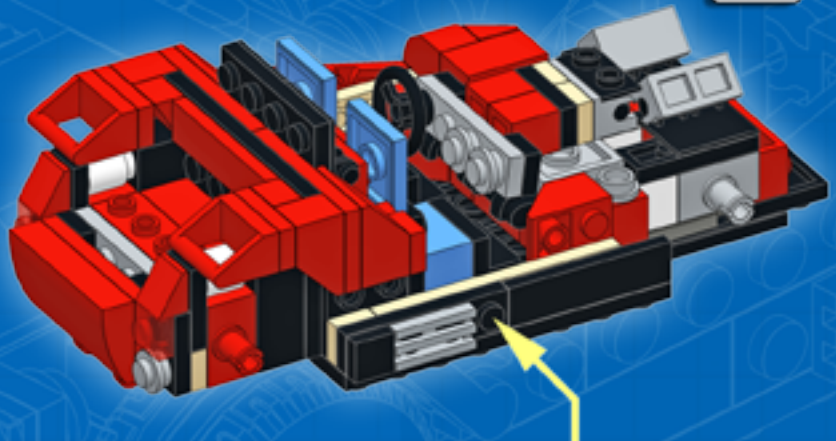
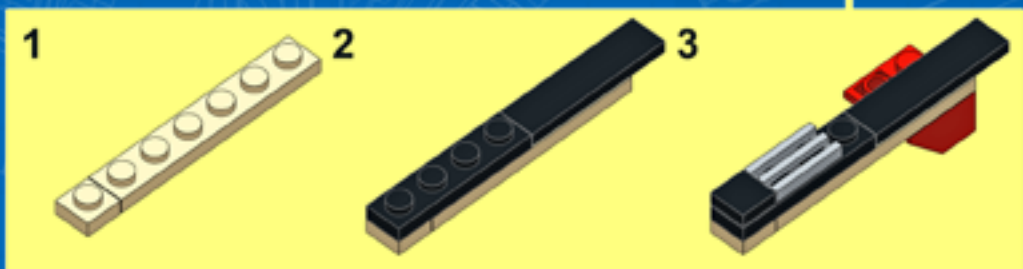
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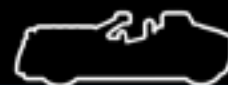


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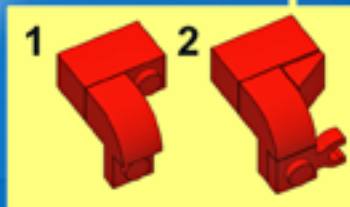
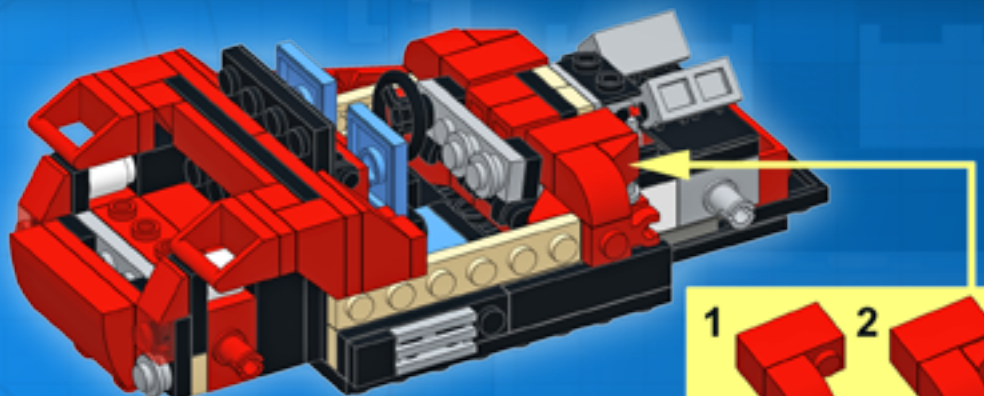
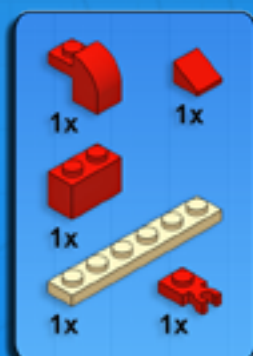


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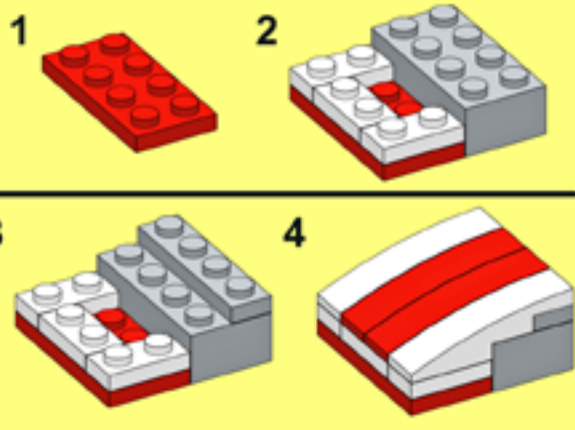




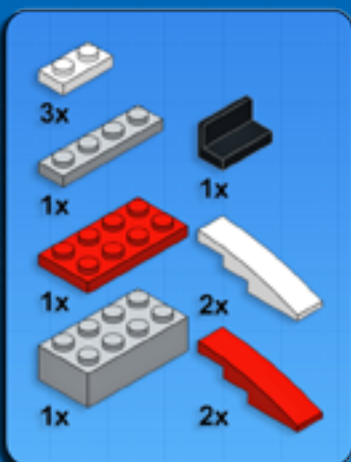
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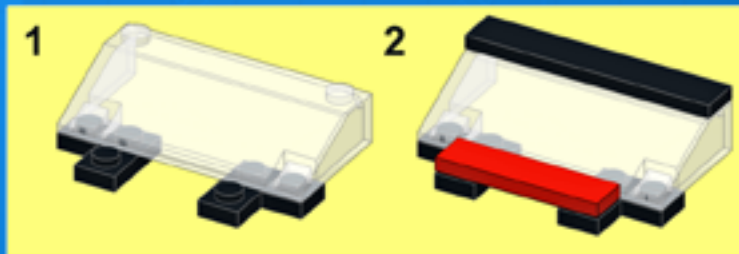
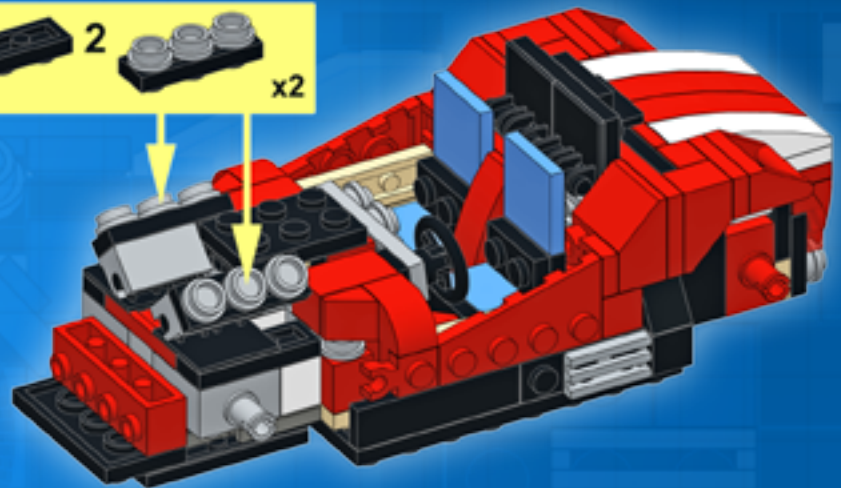
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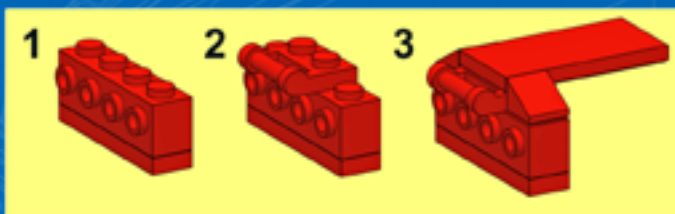
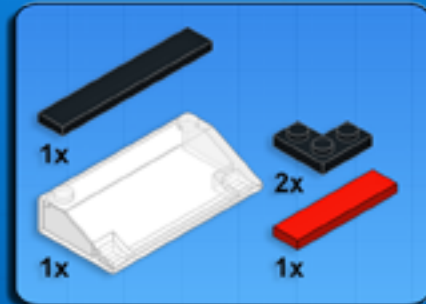




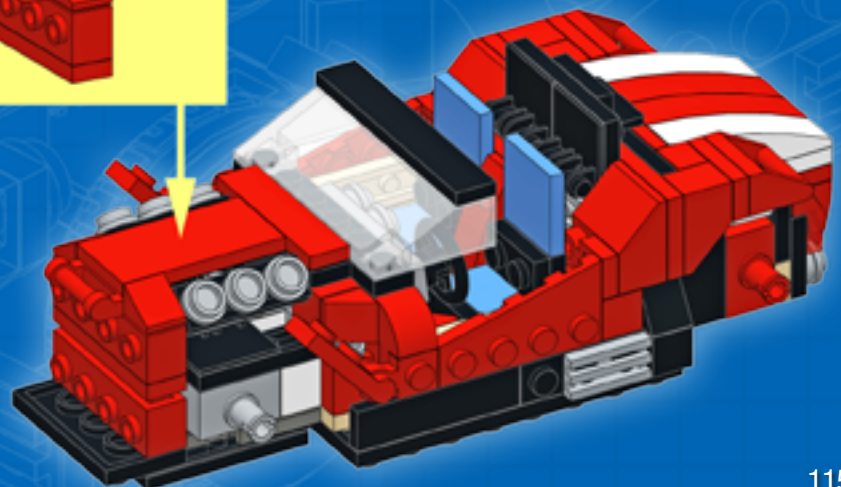
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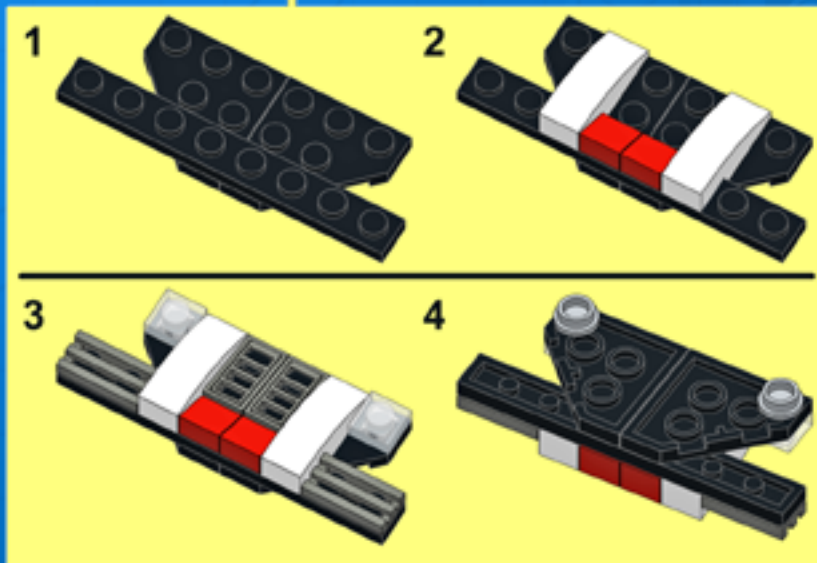
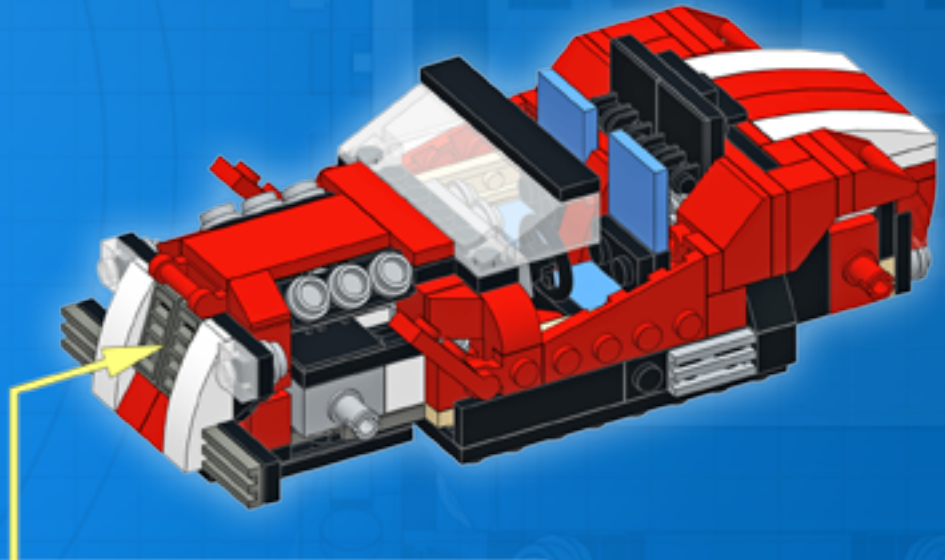


19



20





4x

4x

2x

2x







Complexity	
Functions	
Pieces	



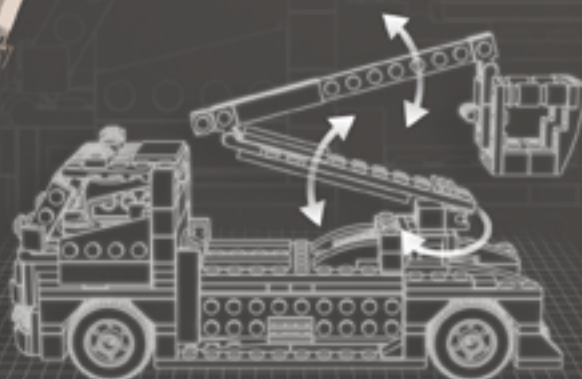
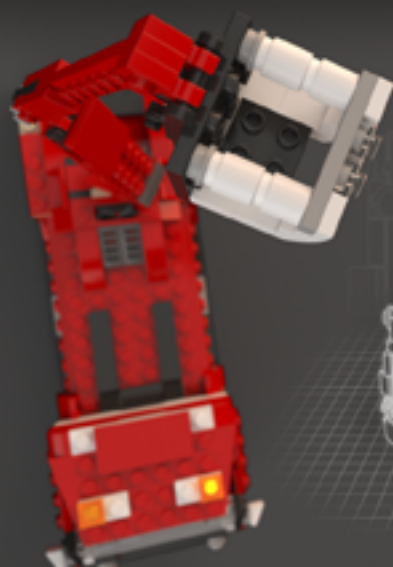
## RESCUE TRUCK

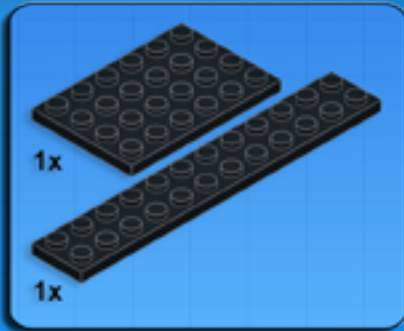
Design notes: long wheelbase, cherry picker arm with bucket, massive front grille, hazard lights

### Technical specifications:

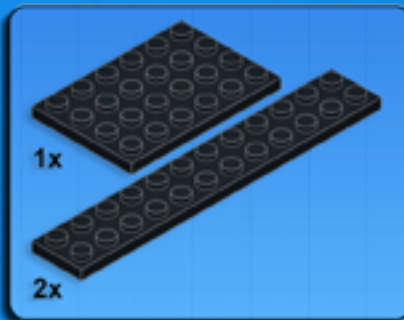
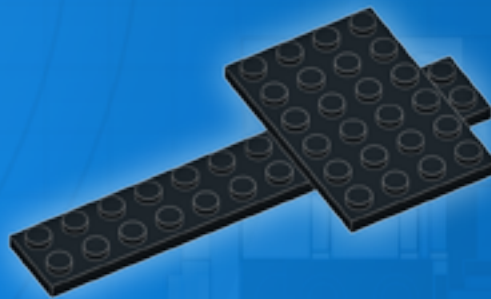
Dimensions (l × w × h): 26 × 10 × 11 studs  
 Wheelbase: 16 studs  
 Axle width front/rear: 8/8 studs

Features: boom rotation, boom elevation

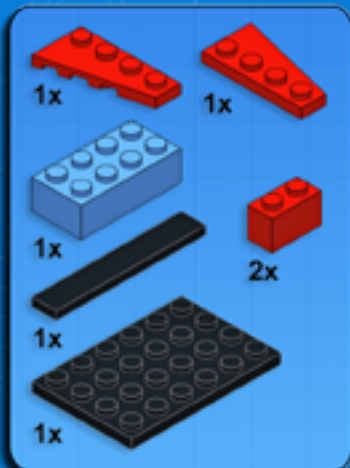
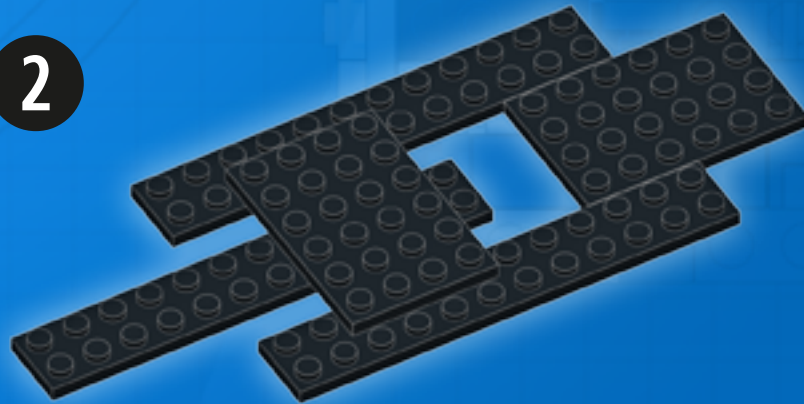




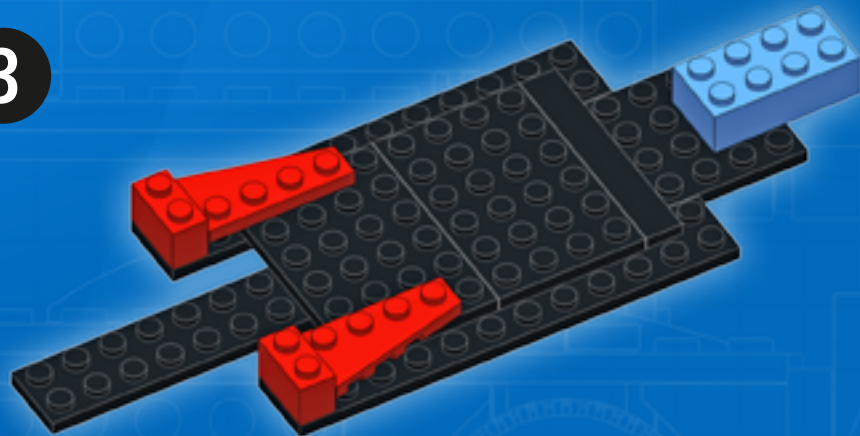
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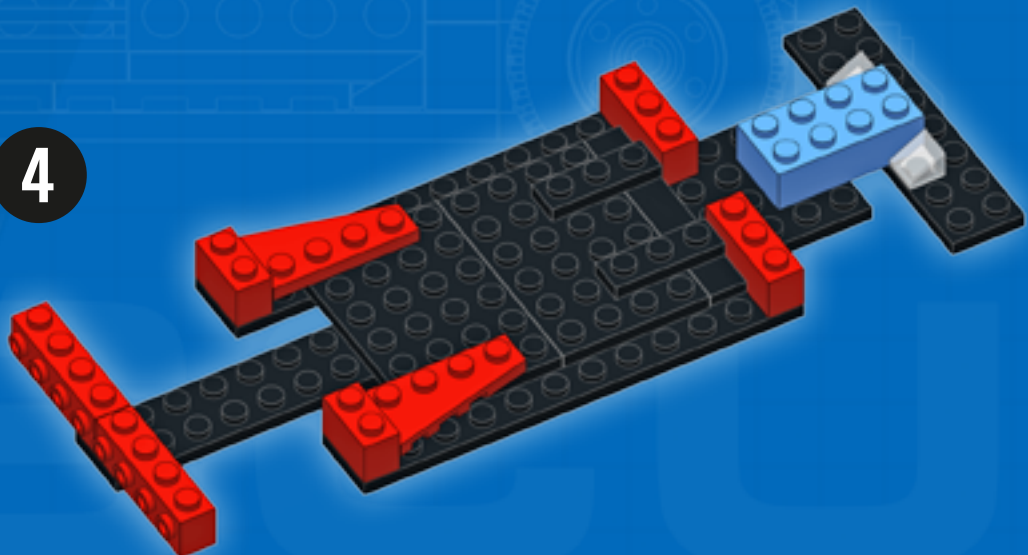
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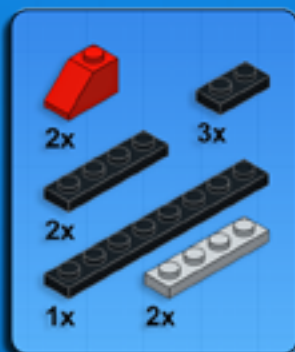
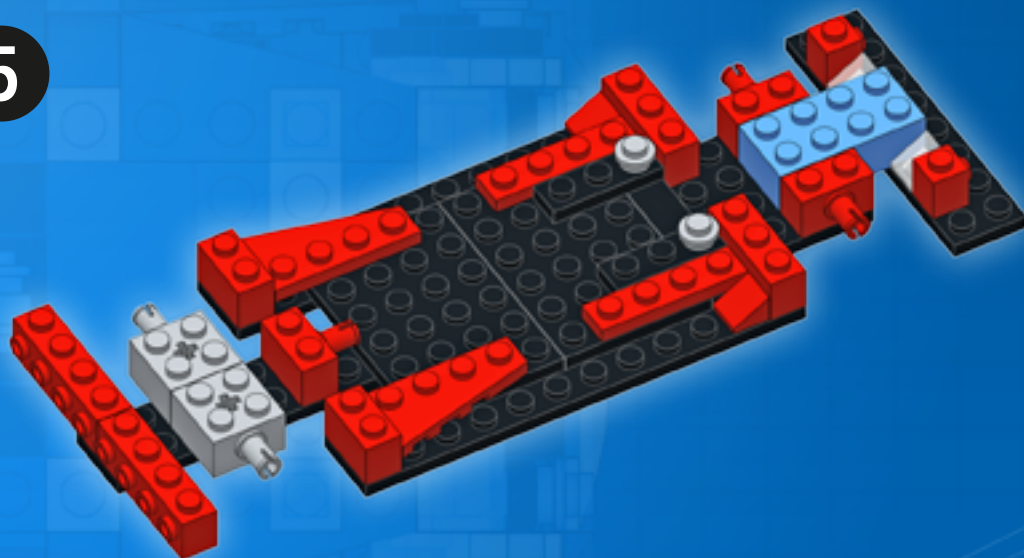
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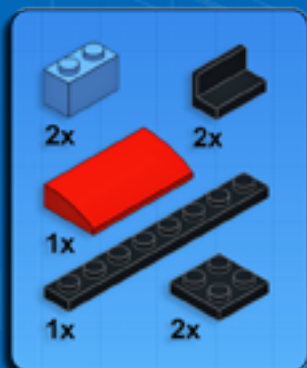
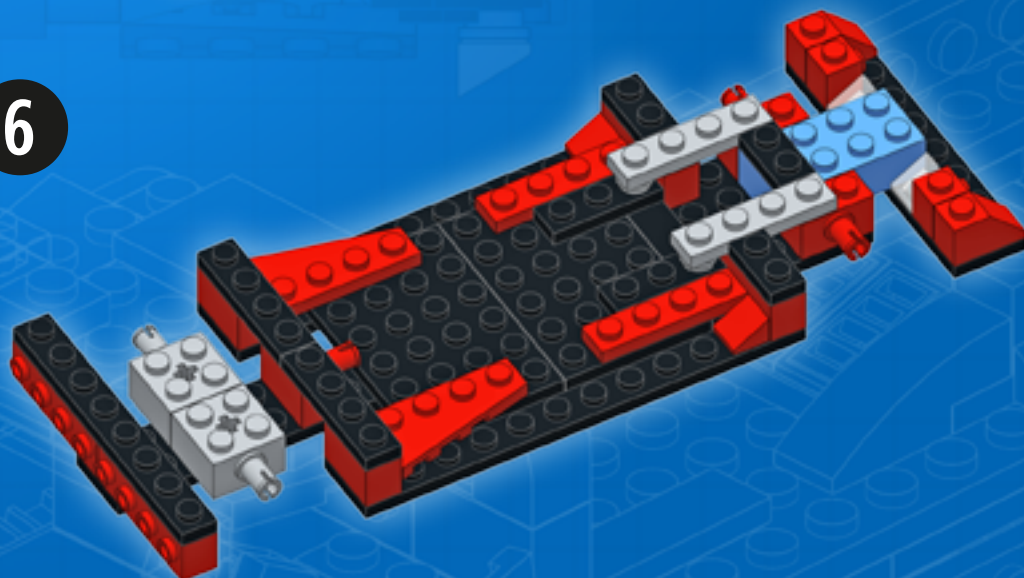




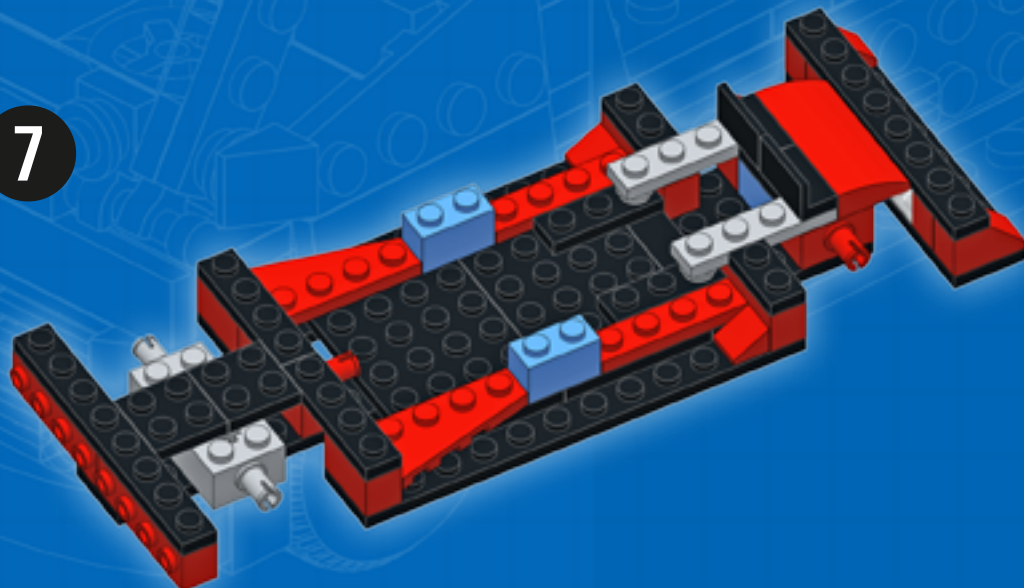
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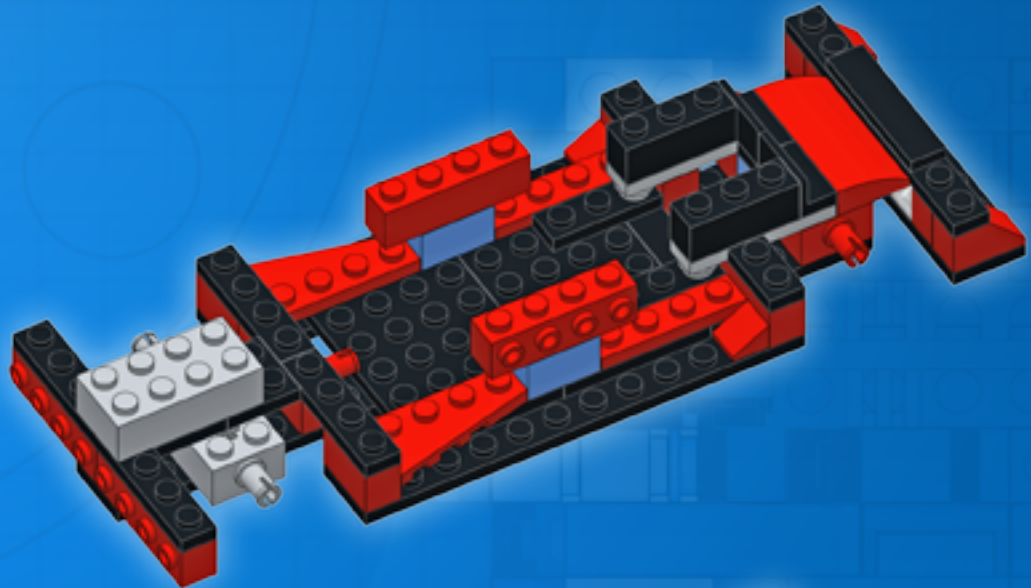
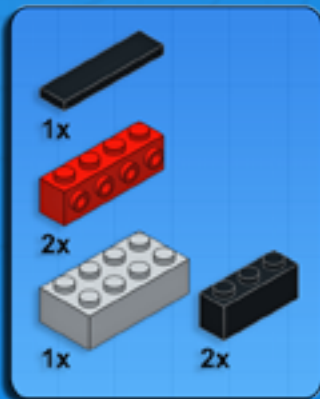


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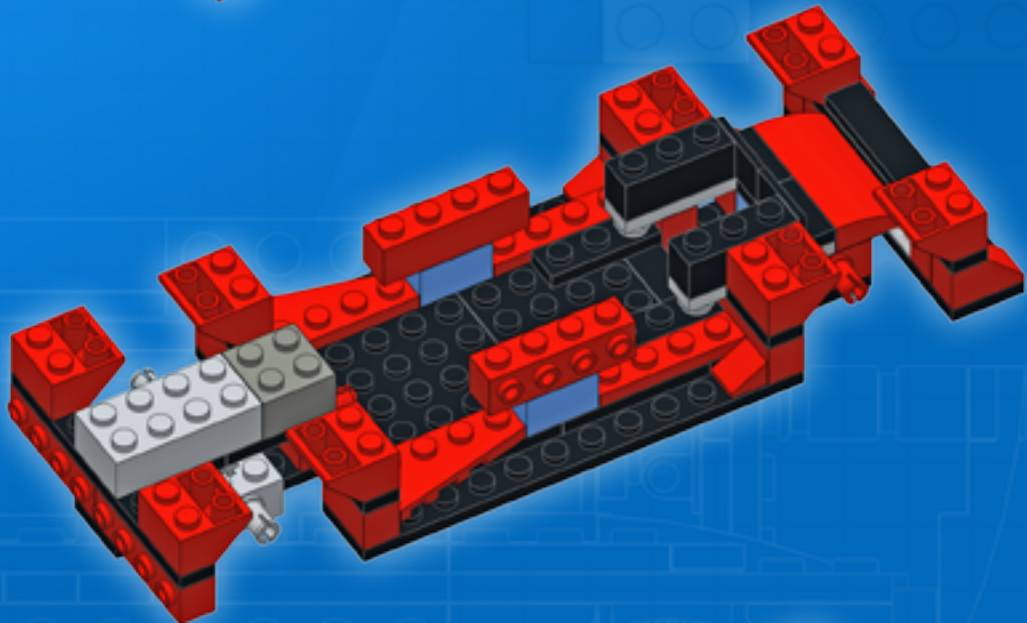




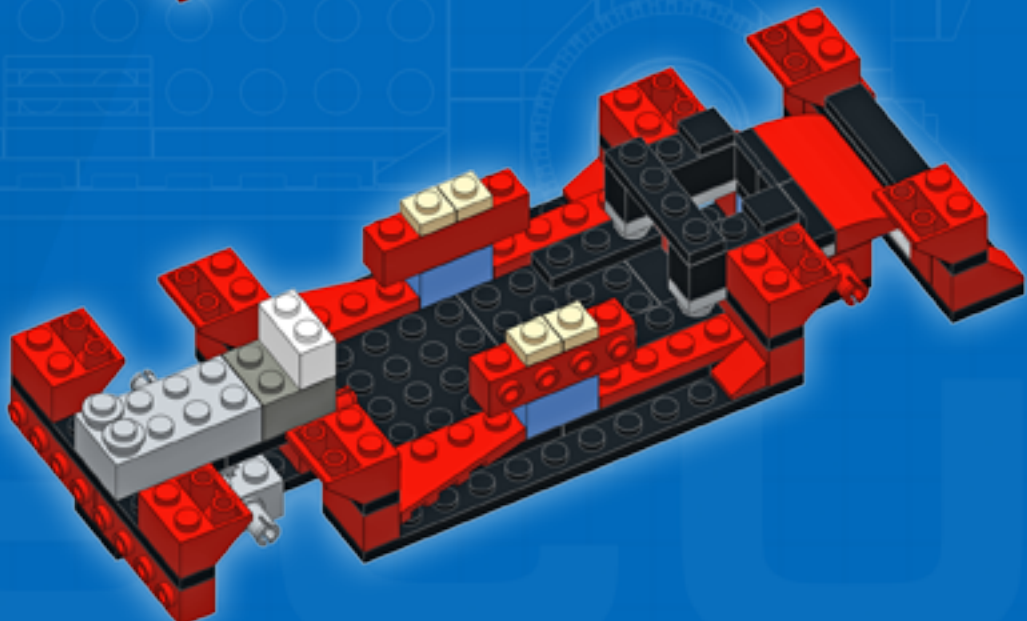
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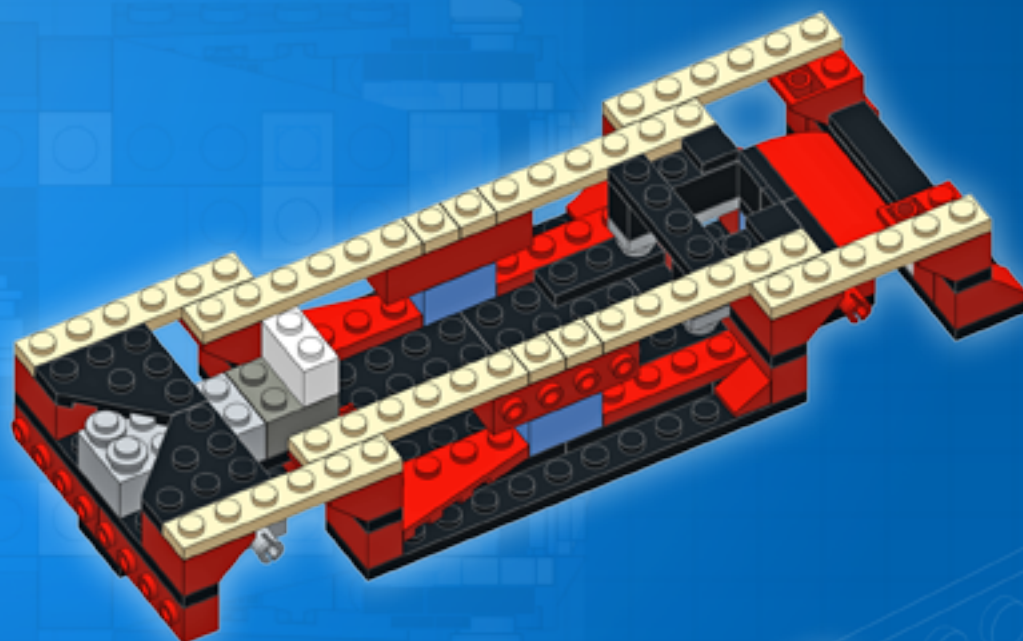
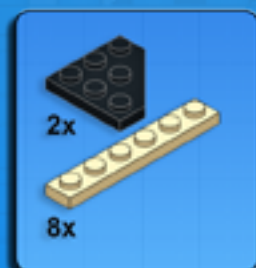


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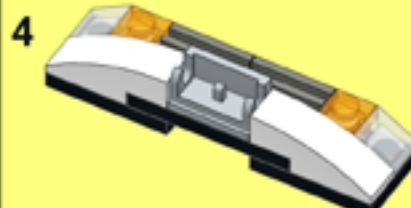
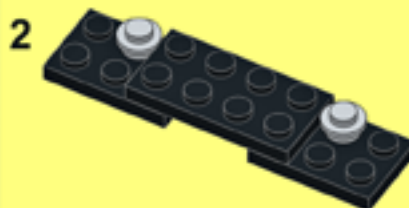
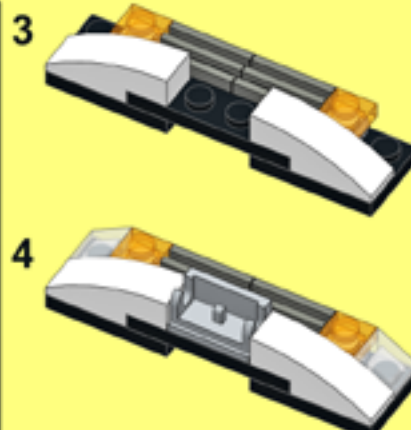
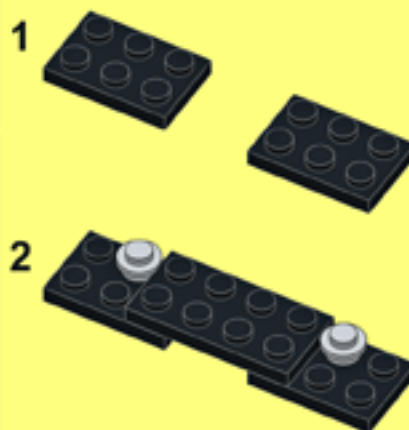
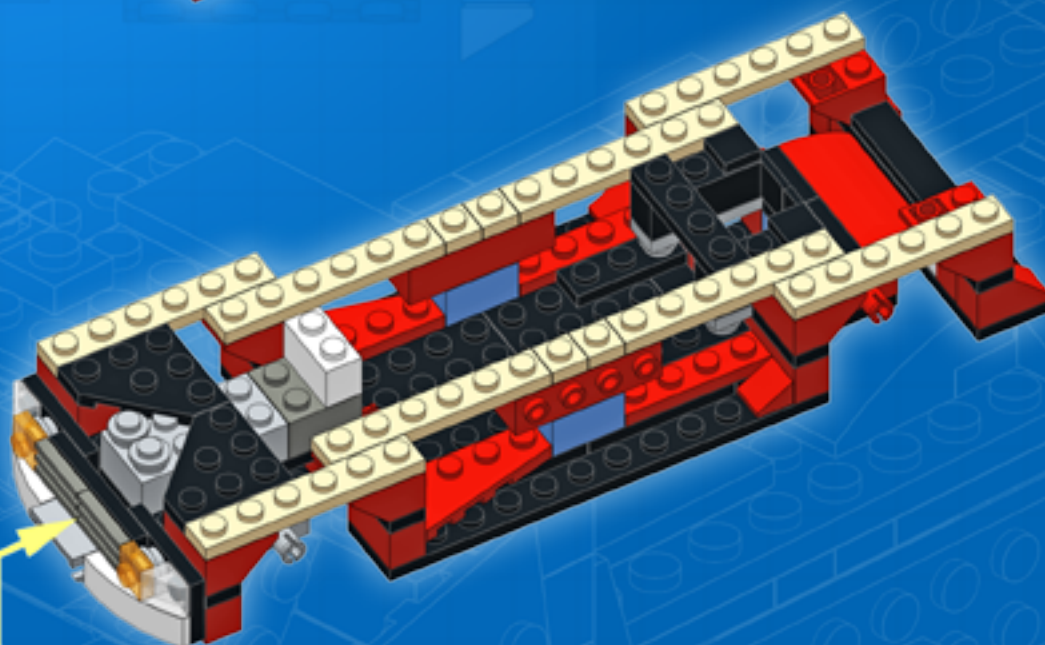




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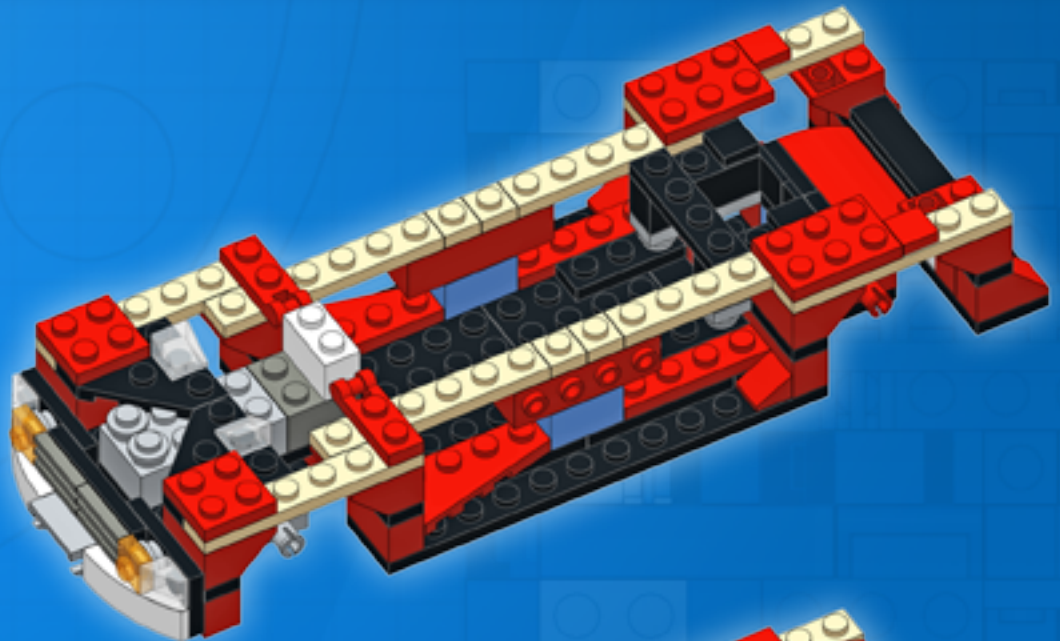


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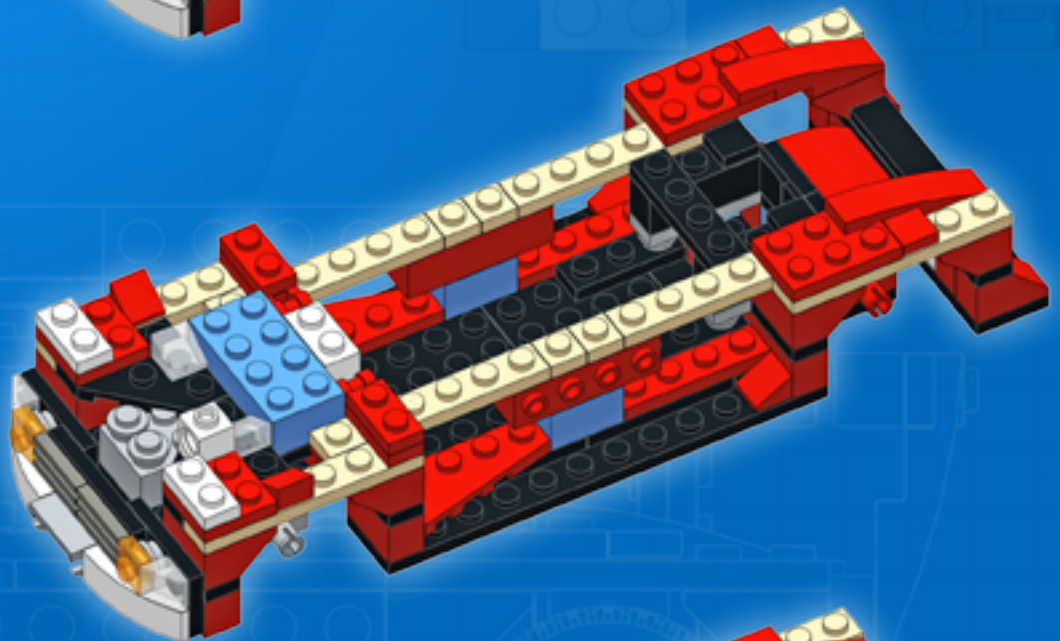
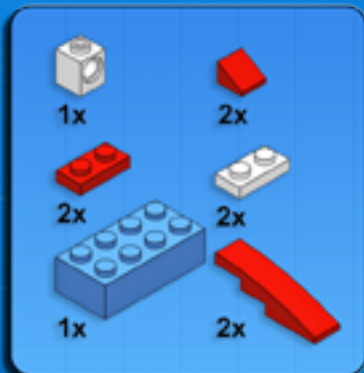




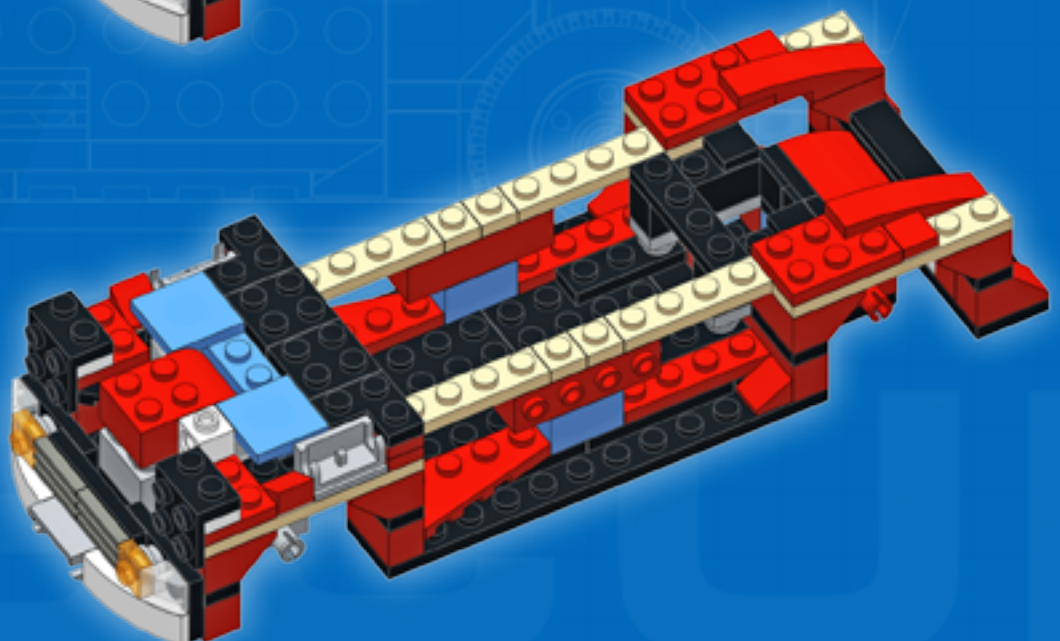
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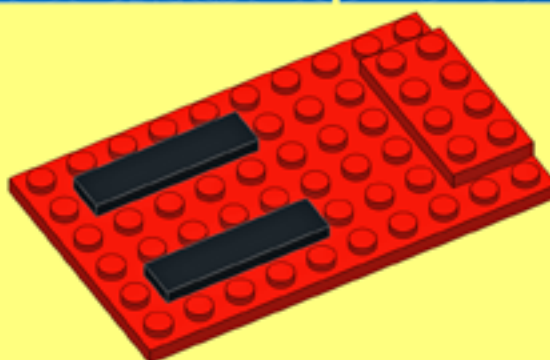
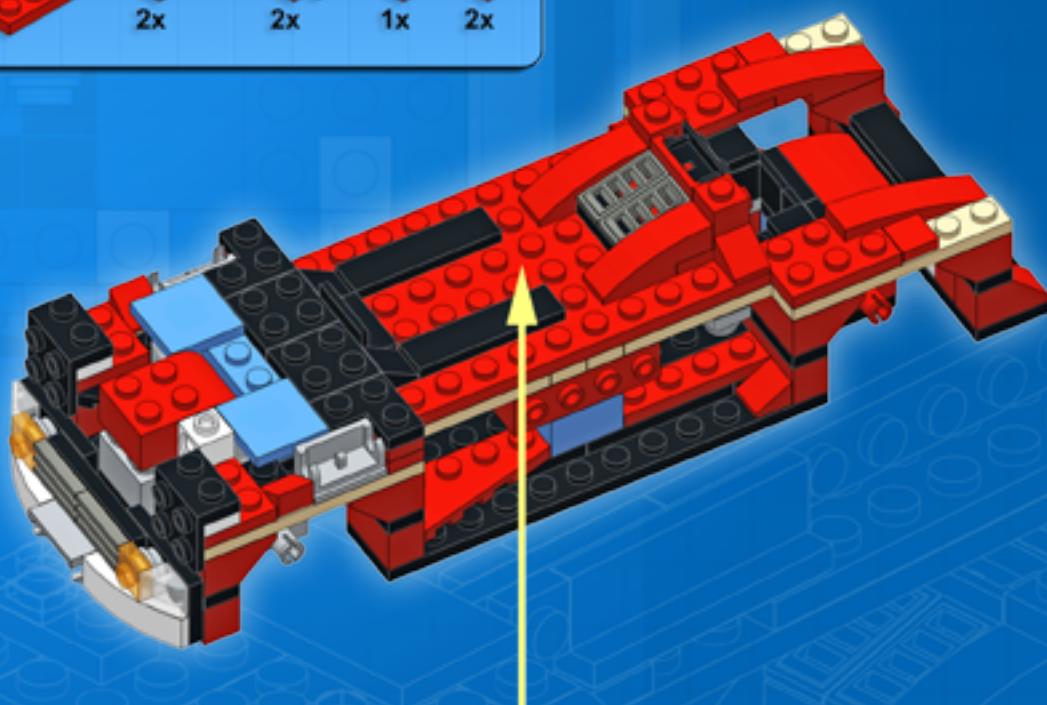
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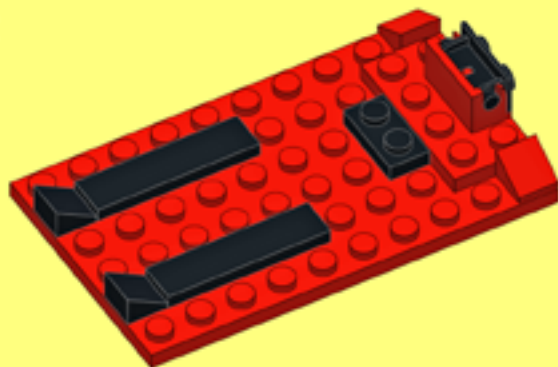
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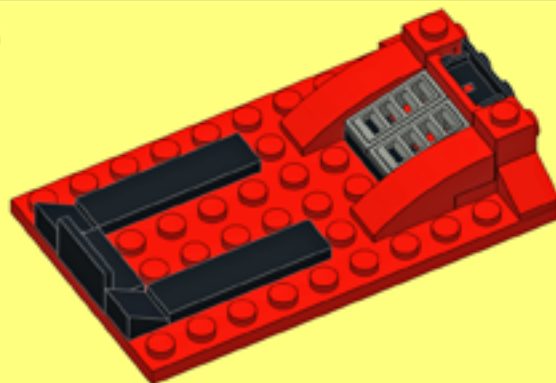


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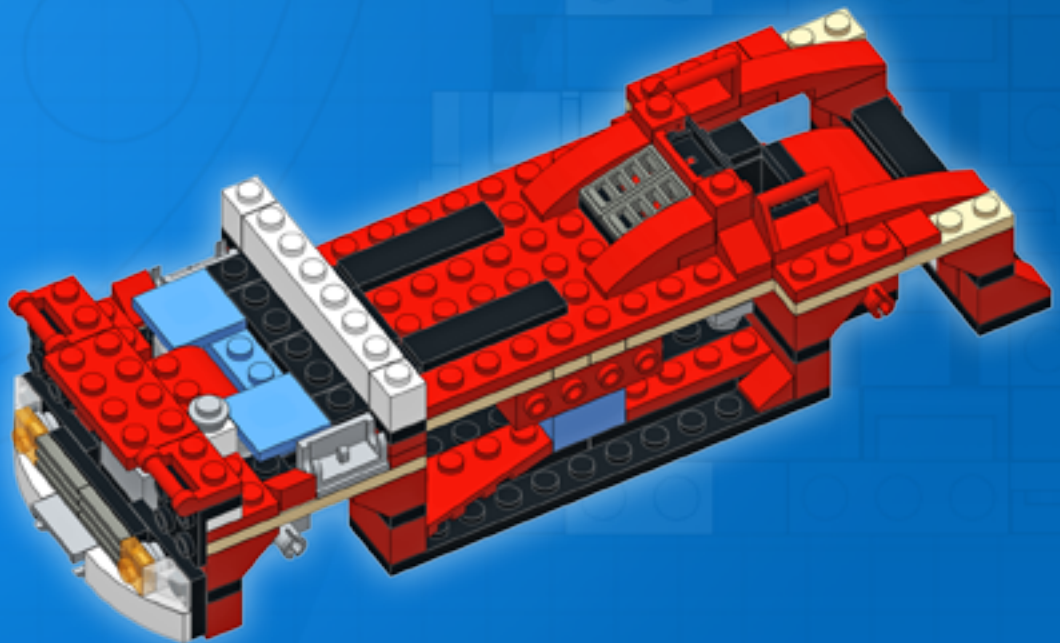


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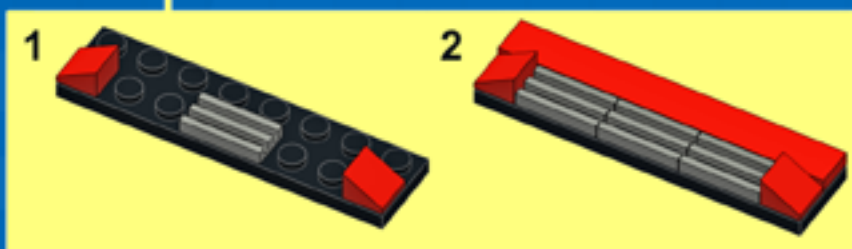
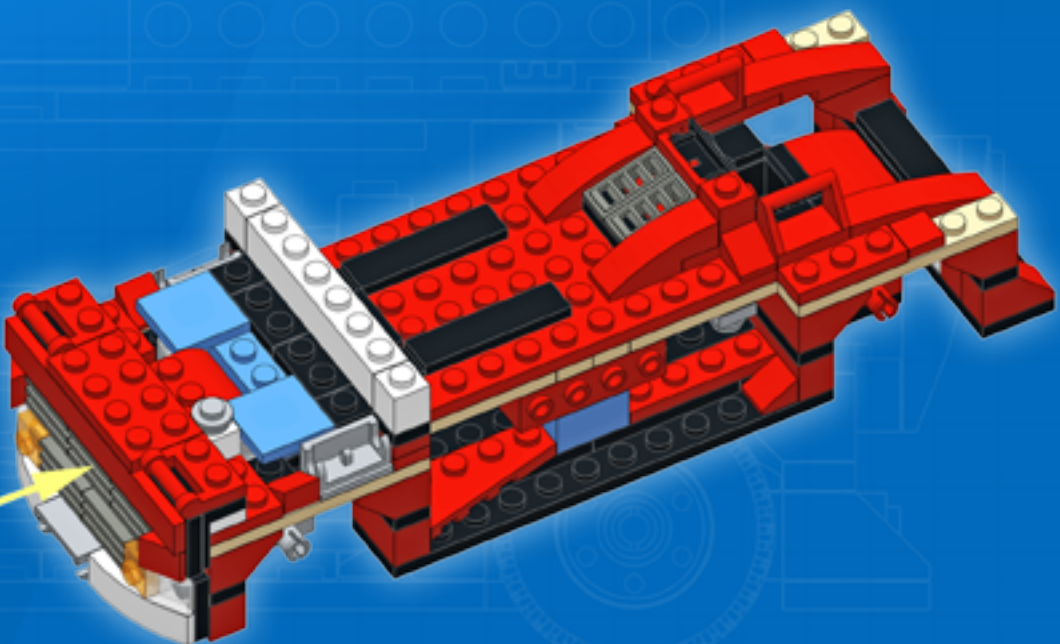
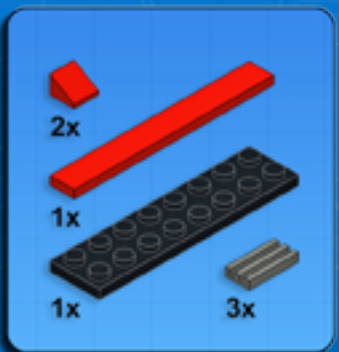




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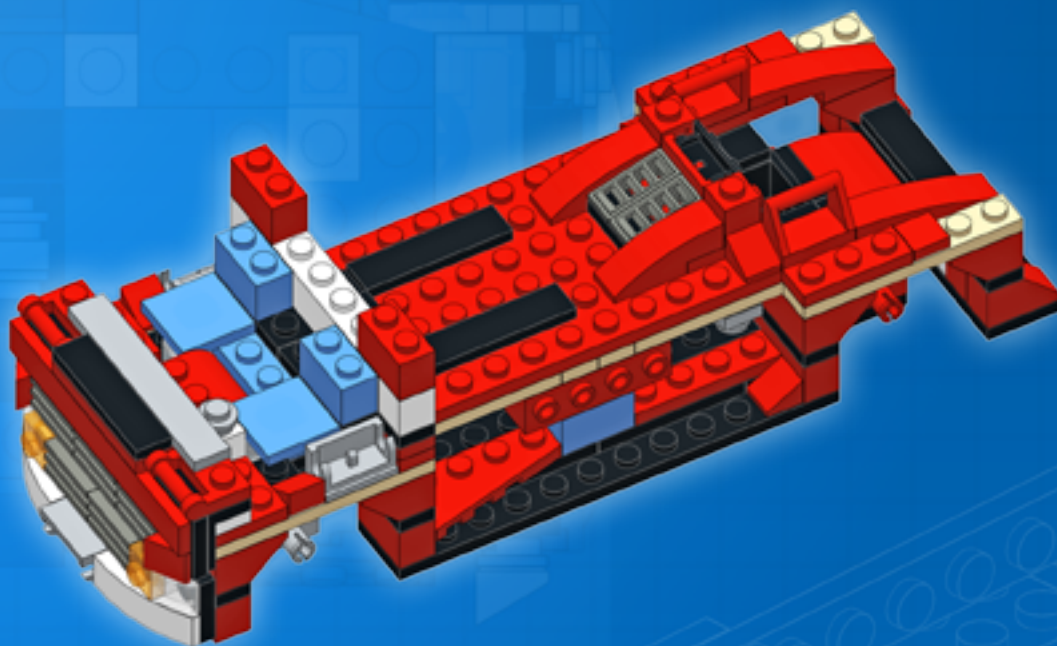
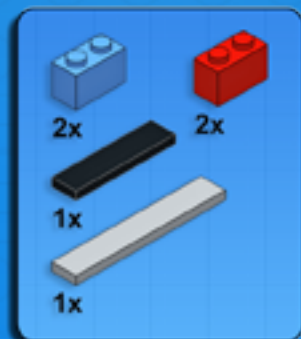


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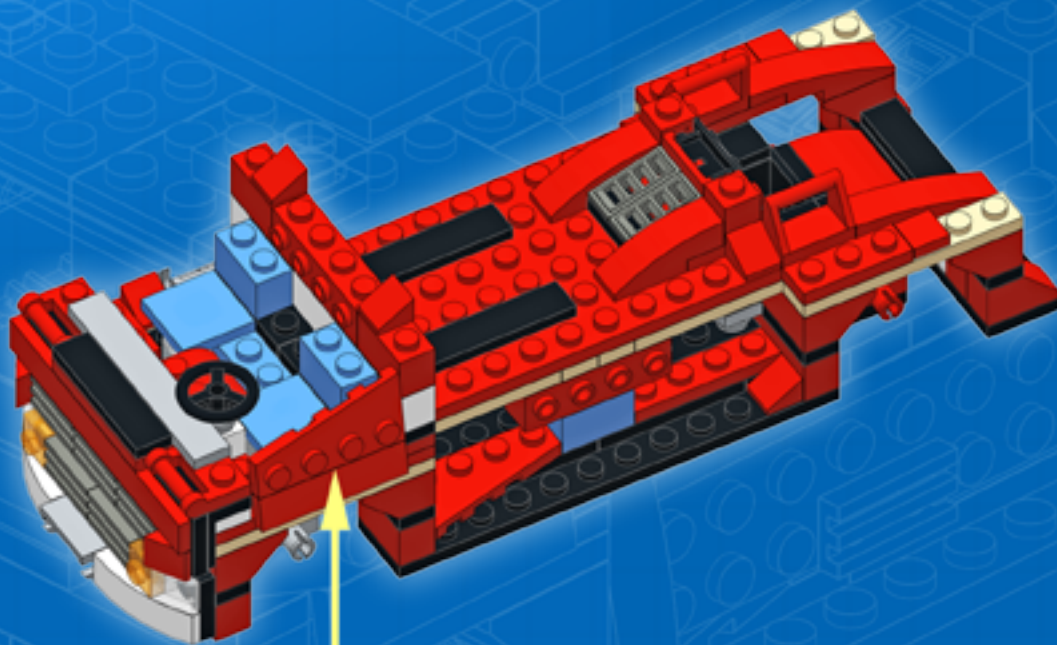


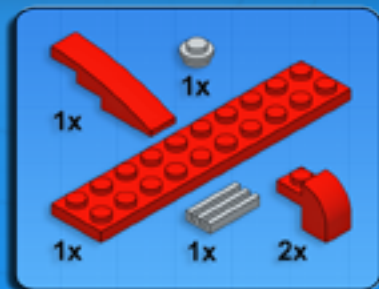


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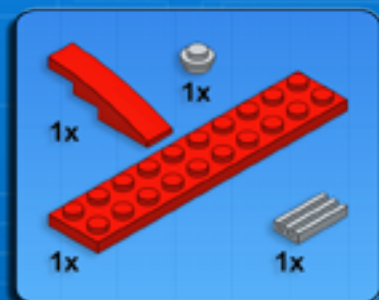
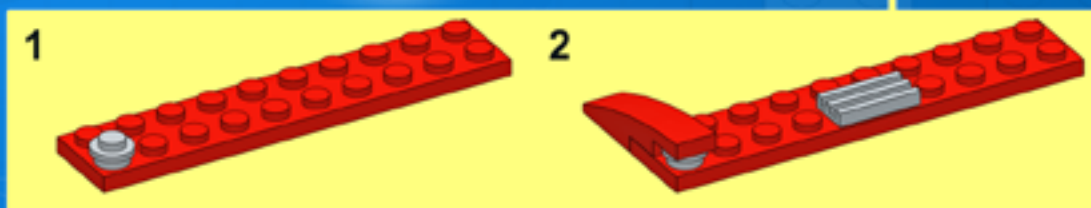


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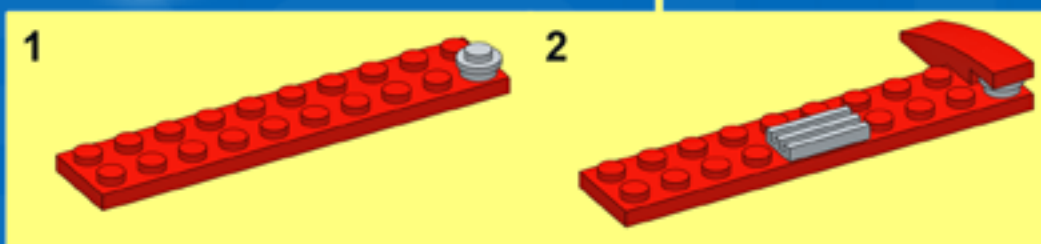
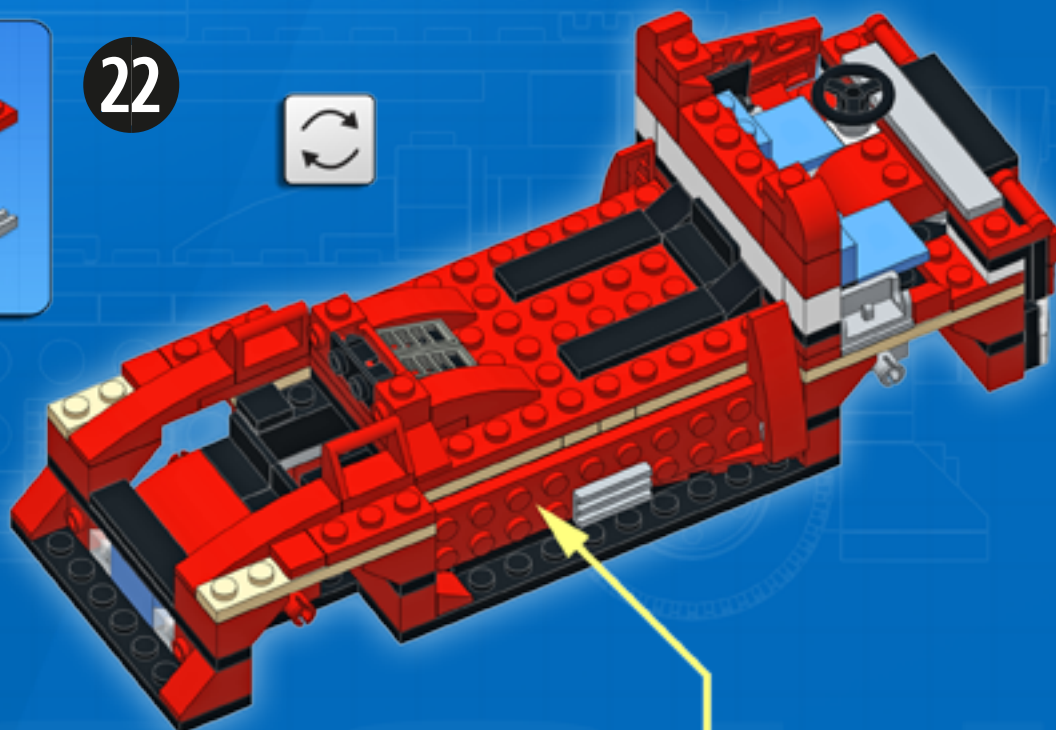




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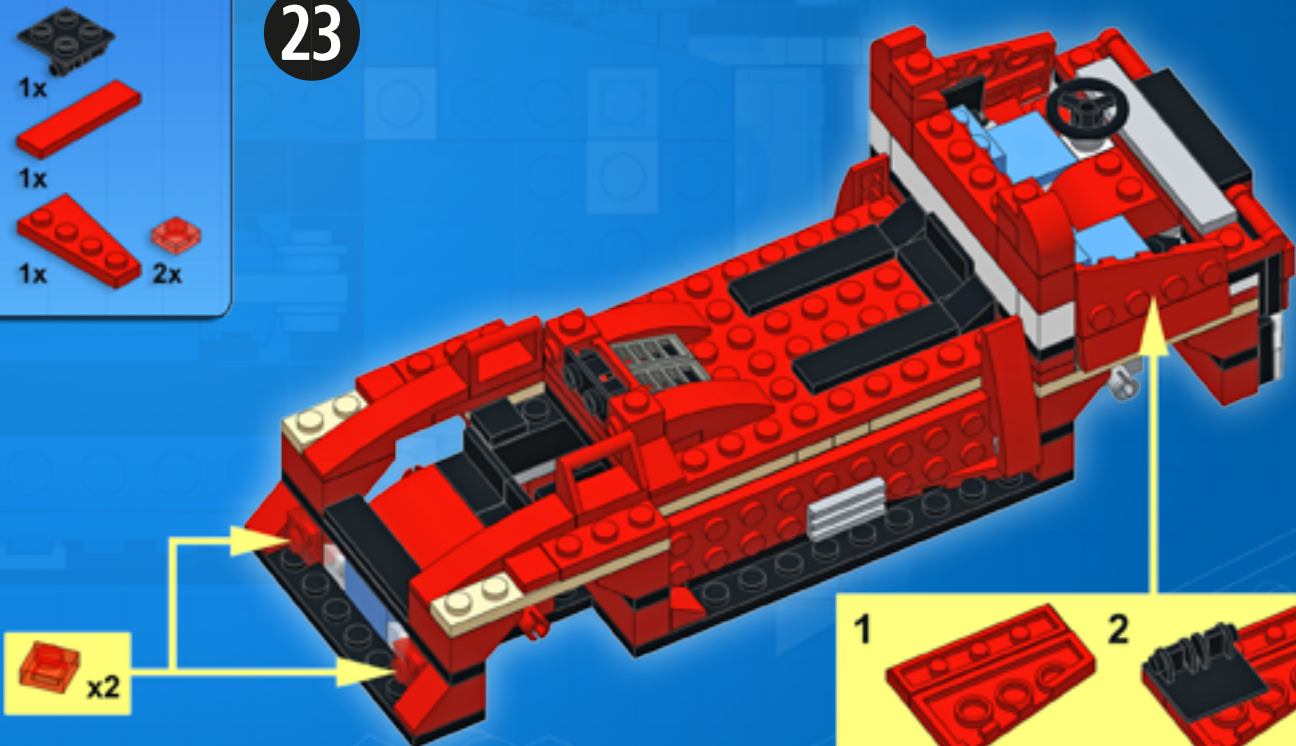
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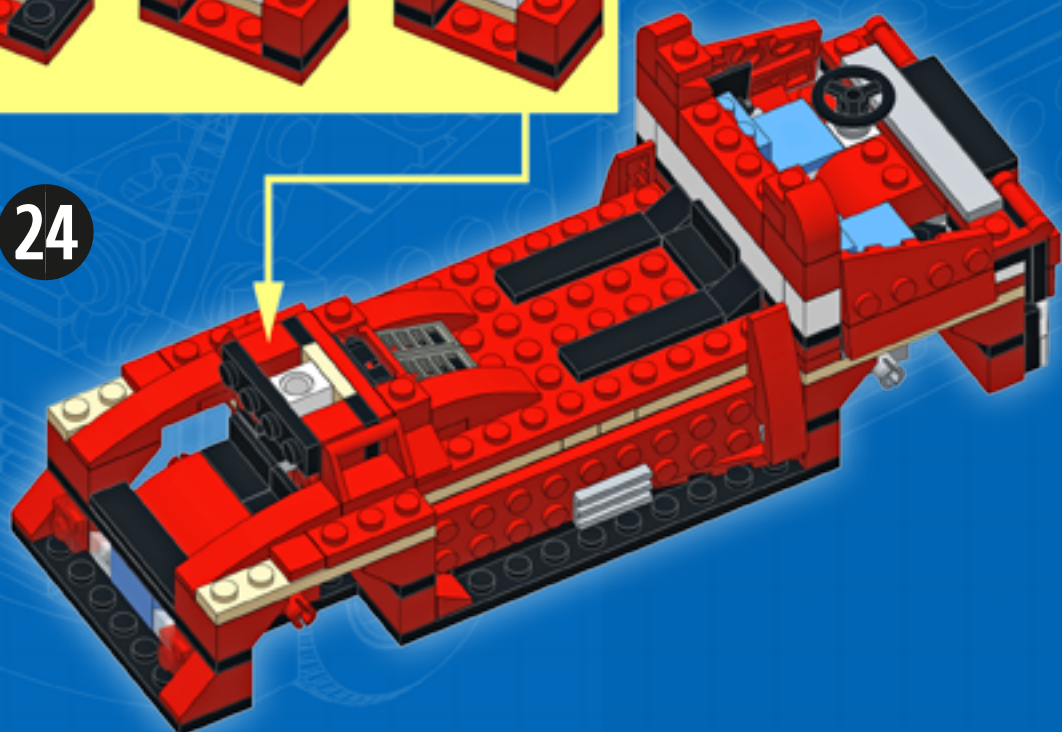
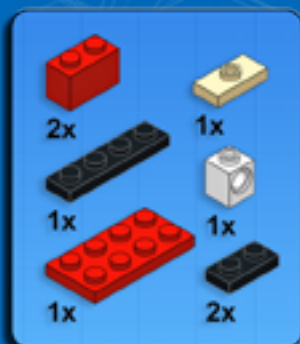




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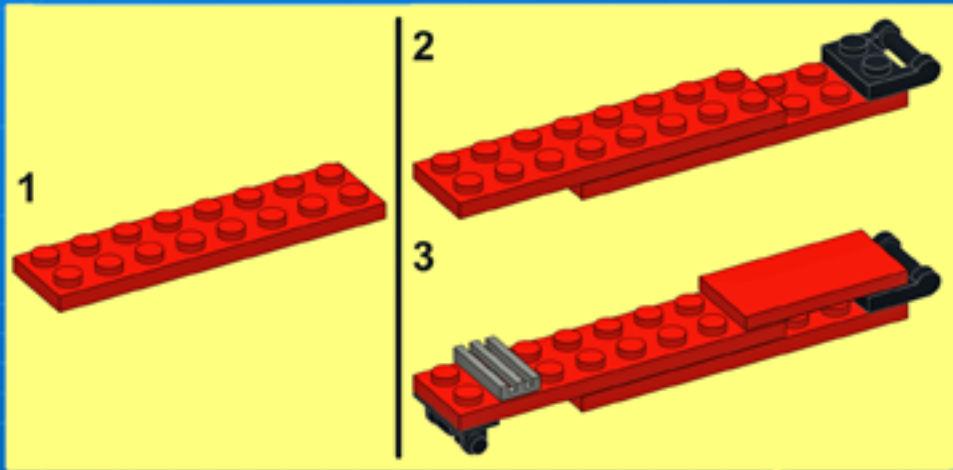
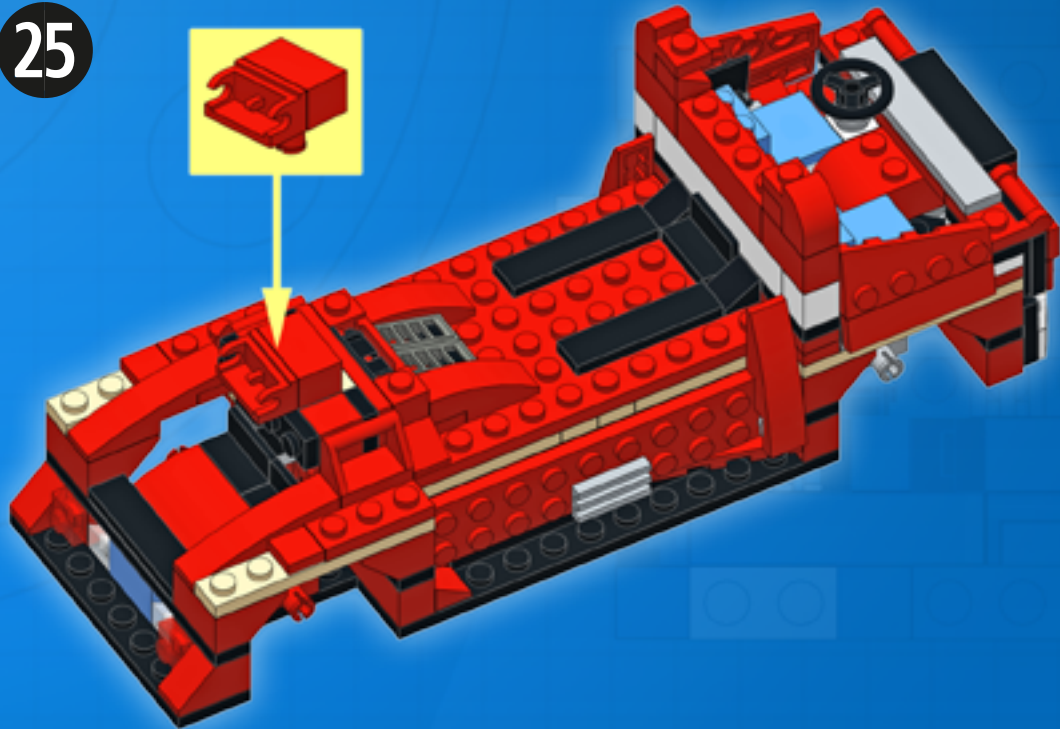


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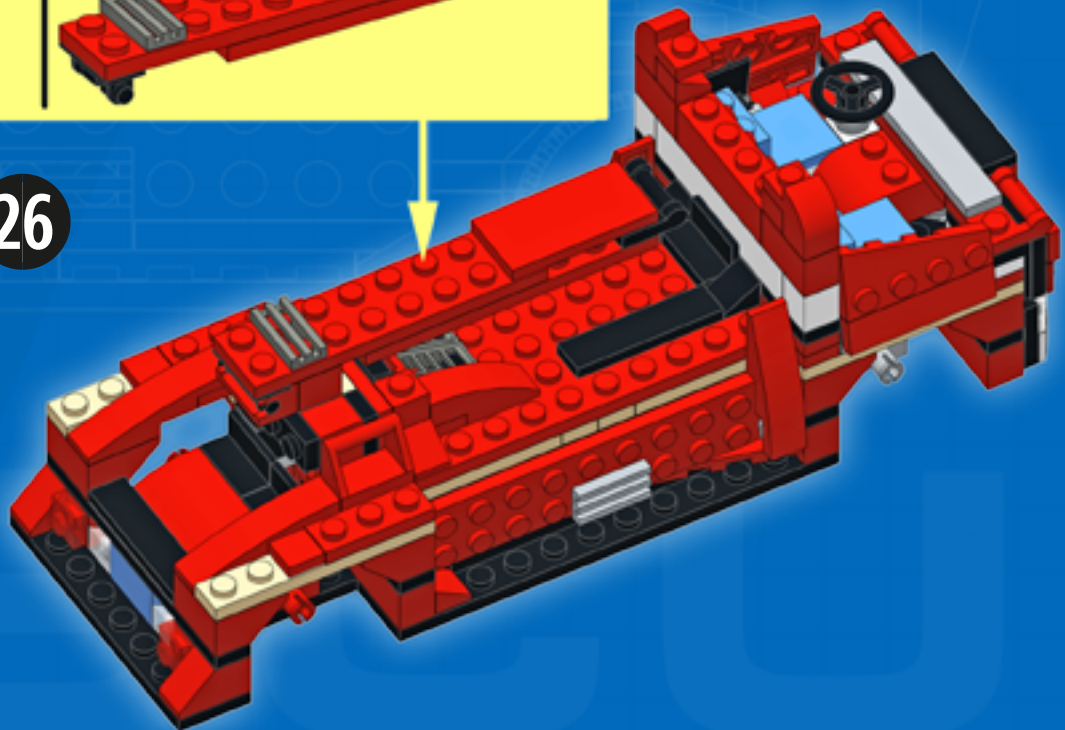




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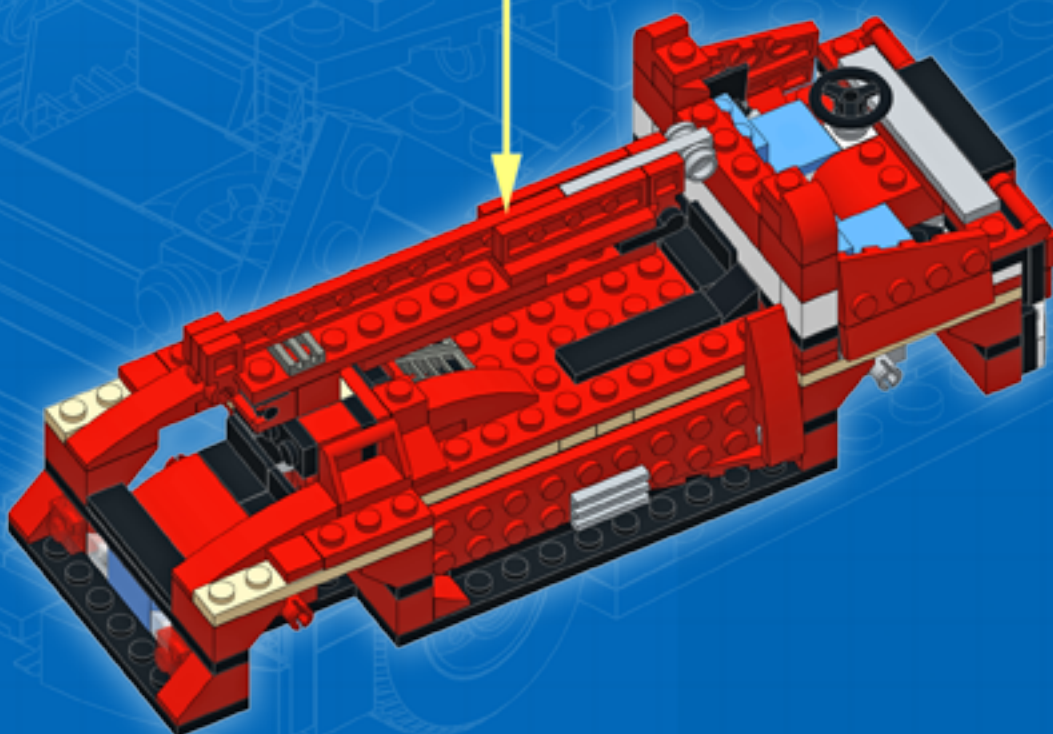
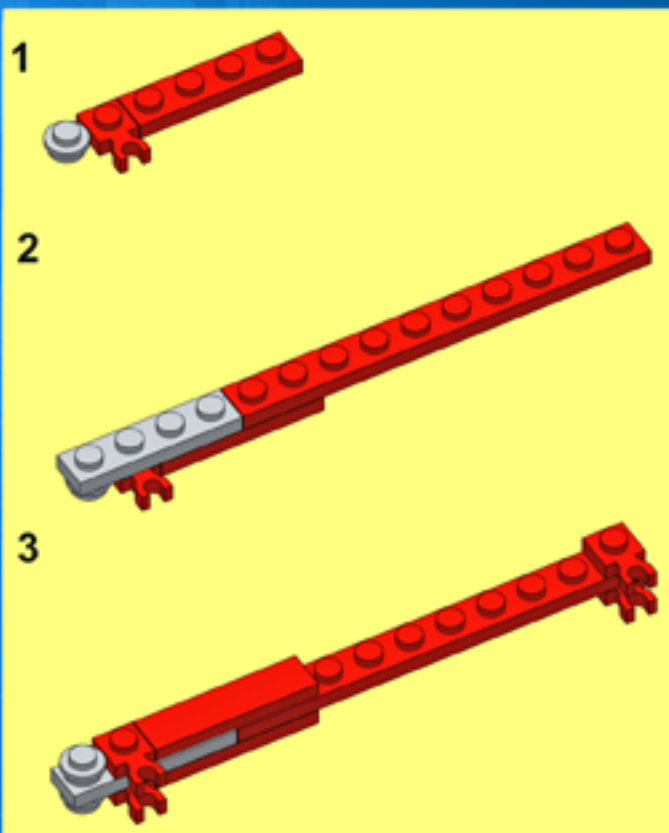
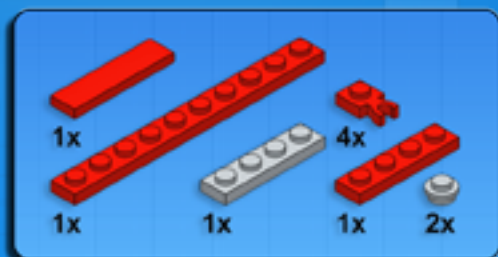


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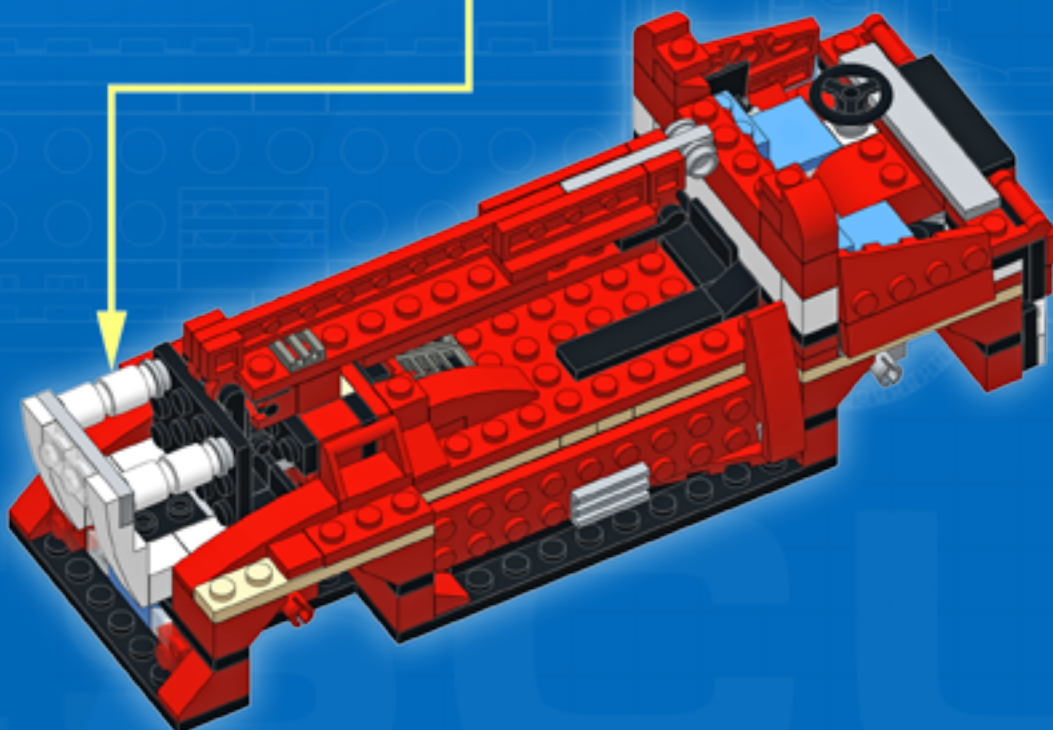
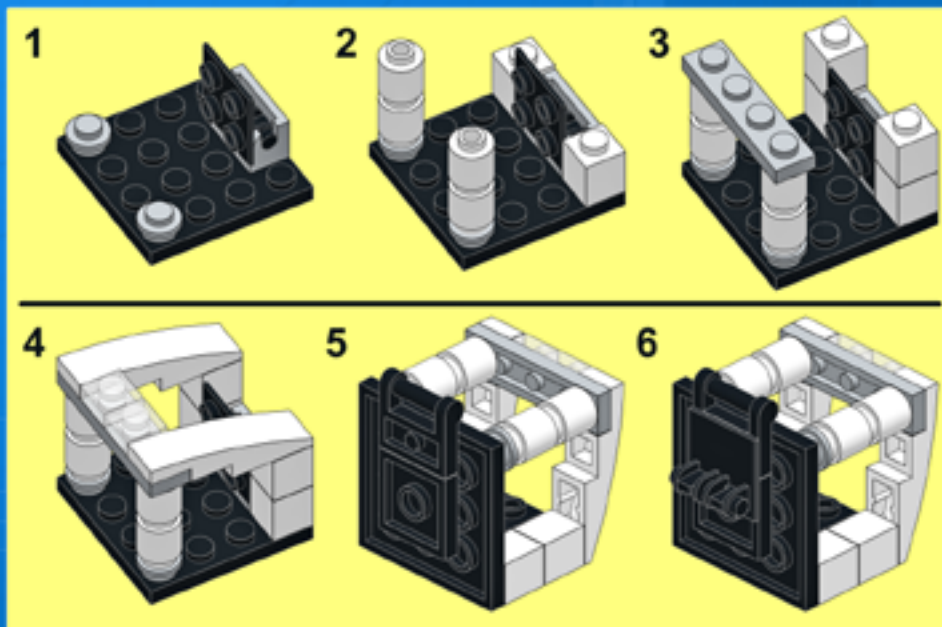


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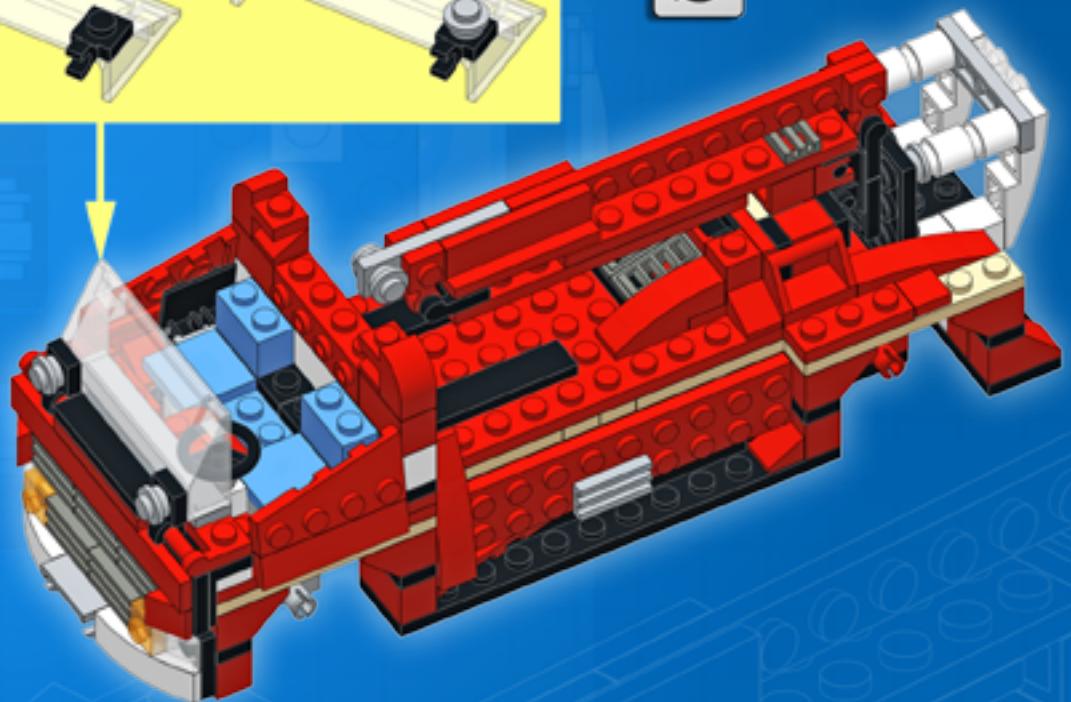
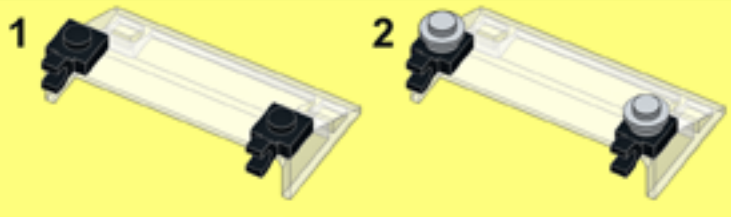
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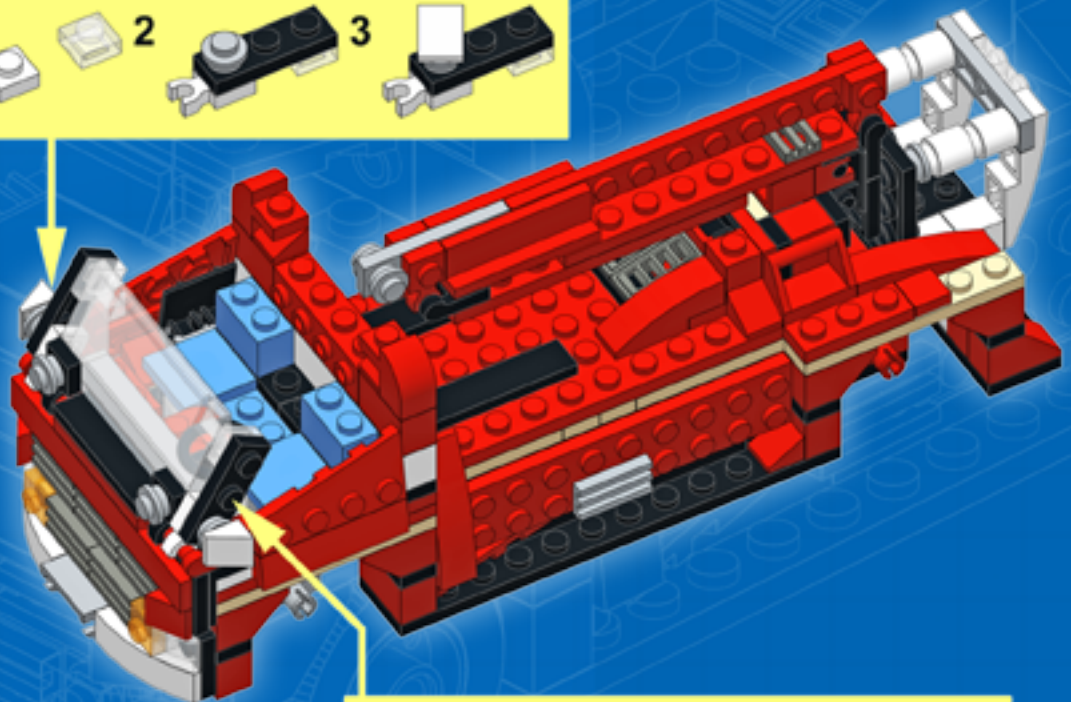




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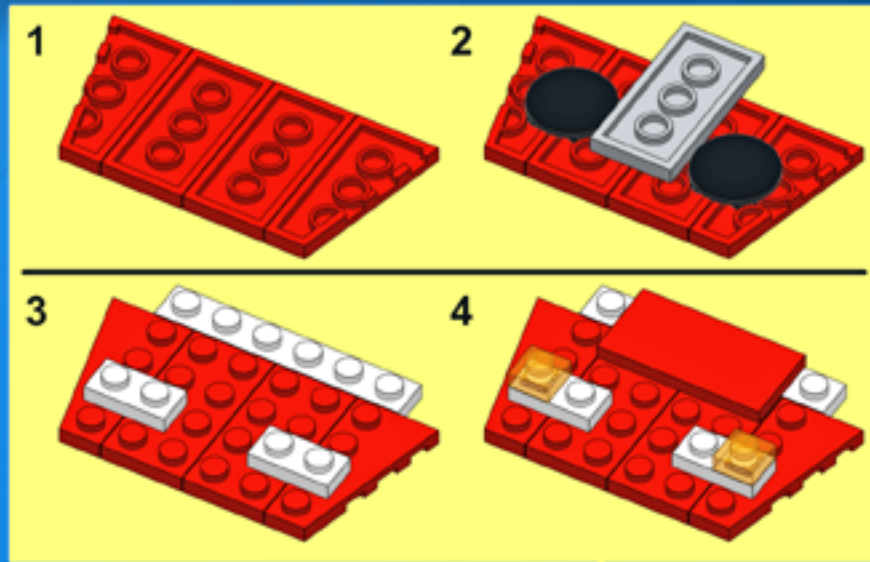
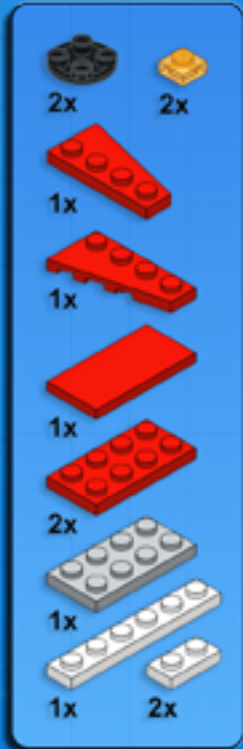


30





31



32







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10 MORE  
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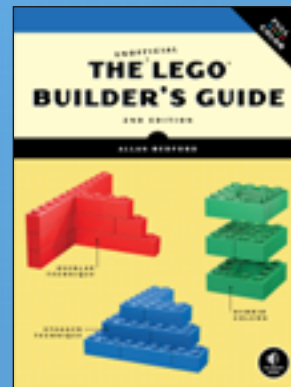
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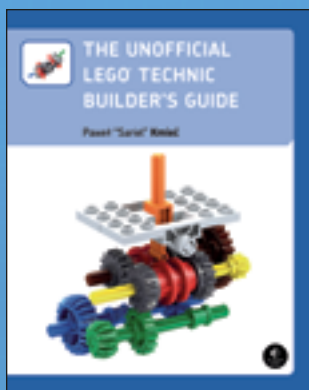
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## ABOUT THE AUTHORS

Nathanaël Kuipers is a Dutch design professional and former product developer for the LEGO Group. He is the mastermind behind several noteworthy Technic models, like the #8272 Snowmobile, the #8292 Cherry Picker, and the impressive #8674 Ferrari F1 Racer.

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