

60462 Helicopter, Fire Truck & Submarine Remix

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Kids who love to build and create will love the LEGO® City Helicopter, Fire Truck & Submarine Remix toy playset (60462) for ages 7 and up. This 3-model building set includes a police helicopter with spinning main and tail rotors, an exploration submarine with a bubble cockpit and posable claw arms, and an iconic fire truck with an extendable hose. Each model comprises 3 modular parts that can be combined, allowing kids to mix and match an array of action vehicles ready for exciting missions. Just add the police officer, helms person and firefighter minifigures and let the fun begin!

Toy fire truck, helicopter and submarine building set – Triple the excitement with the LEGO® City Helicopter, Fire Truck & Submarine Remix set for kids aged 7 and up who love to build and create.

What's in the box? – Everything kids need to build a toy helicopter, submarine and fire truck, plus police officer, helmsman and firefighter minifigures.

Includes 3 modular builds for custom creations – Each model comprises 3 modular parts that can be combined, allowing kids to mix and match to create an array of fun toy action vehicles.

Fun functions for realistic play – Includes a toy submarine with posable claw arms, a police helicopter with spinning main and tail rotors and a fire truck with an extendable hose.

Dimensions – The police helicopter in this 874-piece, 3-model LEGO® City set measures over 4 in. (10 cm) high, 10 in. (25 cm) long and 9 in. (23 cm) wide.

The front of the box shows a fire truck driving on a road, a helicopter flying through a storm, and a submarine traveling through the ocean!

The back of the box shows that each build comes with 3 different modular parts! You can mix and match any of the parts to make a unique vehicle!

The top of the box shows a real size image of a submarine pilot!

The build is 874 pieces in total and is for ages 7+.

Bags 1-3 includes the pieces for the firefighter and fire truck.

Bags 4-6 includes the pieces for the pilot and submarine.

Bags 7-9 includes the pieces for the pilot and helicopter.

Welcome to Text-Based Building Instructions from Bricks for the Blind. Here is some helpful information on how to best use screen readers and browsers: bricksfortheblind.org/help-with-screen-readers. Before you start building, here are some terms we will be using:

- In Front of/Front: towards you.
- Behind/Back: away from you.
- Up: towards the ceiling.
- Down: towards the floor.
- Stud: the bump on a LEGO brick. Example: A 2x1 brick has two studs on it.

- Vertically: with the longest side going from front to back
- Horizontally: with the longest side going from left to right.
- Upright: pointing up towards the ceiling.
- Standing upright: The piece is perpendicular to the ground, like a wall.
- Lying flat: The piece is parallel to the ground, like a piece of toast which fell off the table.
- That one/ppp: previously placed piece.
- Plate: piece with studs.
- Tile: smooth piece without studs (unless otherwise specified)
- A jumper plate is a 1x2 plate with a single stud on top, or a 1x3 plate with only two studs on top.
- "Anti-stud" is a term for the portion of a LEGO piece which accepts studs, like the bottom of a plate or brick.
- Symmetrically: a mirror image. Example: If you place a 2x1 brick with technic connector on the front wall at the right, connector to the front, and then place another such piece symmetrically on the back wall, at the right, the technic connector of the second piece should point to the back, since it will be placed symmetrically.
- Centered-vertically: even amount of space in front of and behind piece
- Centered-horizontally: even amount of space left and right of piece.
- Row: studs lined up horizontally (left to right/side to side).
- Column: studs lined up upright or vertically (top to bottom/back to front).

A note on LEGO Technic™ part names. These parts are somewhat different from regular LEGO bricks. Here are some definitions in case the builder or helper is not familiar with LEGO Technic™.

Axles - An axle is a connector which has an X shaped cross-section. Because their cross section is not round, anything connected to an axle using an axle-hole will rotate with that axle. Axles are longer than they are wide, and the length of an axle corresponds with how many bricks long it is. Aka a 3L axle is three bricks long. Axles come in a variety of lengths, with a 2L axle being the shortest available. They may be combined with pins, or have circular stops on them. A stop prevents the axle from sliding through an axle-hole at a specific point on the axle.

Pins - A pin is a connector which has a circular cross section and a flanged notch out of one or both ends. This flanged notch allows them to click into bricks with a pin-hole. Pins come with and without friction ridges, which are small bumps on the pin which prevent them from rotating freely. For standard pins, black is a high friction pin, and gray is a low friction pin. A standard length pin is two brick lengths long, with a stop in the middle. This prevents a brick from being pushed from one side of the pin to the other. A 1L pin is one brick long and still retains the stop, however it also includes a hollow stud at the other end. A 3L pin is three bricks long, and only contains a stop at one side, allowing two bricks to be pushed onto the other side of the pin. Pins may also have one side which is an axle.

Technic brick - a brick which contains one or more holes which accept technic pins.

Lift-arms - A lift-arm is a basic structural element, similar to a brick or a plate, but usually without any studs. It is a beam with rounded ends and with holes in it, with the same spacing as the studs on a LEGO brick. lift-arms come in a variety of lengths, including a 1x1 lift-arm which looks like a cylinder. Thick lift-arms are as wide as a LEGO brick, and thin lift-arms are half as wide as a LEGO brick, but not the same thickness as a LEGO plate! The holes in a lift-arm arm may accept axles or pins. They also come in a variety of shapes, including tees, ell and triangles.

Gears - A gear is a functional element. They are typically discs with teeth on the outside, there are also worm gears which look like a spiraling cylinder! Gears connected by axles transmit or even transform rotational motion!

Axle and Pin Connectors - These elements are typically smaller than lift-arms and are used to connect some combination of pins or axles. They might have pins or axles, as well as axle or pin-holes. They have a lot of different angle combinations! The simplest just connects two axles or pins together in a straight line.

Bushes/Bushings - LEGO Technic™ uses bushes largely as spacers, but they also can reduce friction between rotating parts, or can form useful elements such as handles. Bushes are typically light gray, generally cylindrical, and have an axle-hole running through the middle. They have a flange at the front and back to make them easier to pull on and off.

For builders with low vision, or a sighted building partner may want to follow along with the printed visual instructions that come with each kit, or PDF versions are always online at LEGO.com for each set: (<https://www.lego.com/en-us/service/buildinginstructions/60462>) As low vision users may benefit from viewing the instructions on a personal device where they can zoom in on content and use assistive technologies to enhance the visuals.

Sorting the pieces:

To begin a successful build, it helps to sort the pieces into groups, bags, or small containers. Have a friend or family member do this in advance following the instructions below. You will see that the pieces should be sorted according to the building steps in the kit. Doing this in advance makes locating the pieces for each step easier. See below on how to sort the pieces to correspond to the steps in this set. Number the containers using letters A-Z, numbers, or meaningful names. The parts will be sorted into one or a small number of steps in the instructions. Example: Steps 1-3 means collect all the parts used in steps 1,2 and 3, and put them in one container.

This LEGO set comes with 9 bags labeled 1 to 9, 3 sets of instructions, and some loose pieces. Sort the pieces into groups or piles as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split into 2 groups to make telling the difference easier for the builder! LEGO includes a few spare parts in case you lose something. Set these into their own group away from the rest, in case you need them later.

Bag 1 - Firefighter and Fire Truck

Group 1 - Page 8.

Group 2 - Steps 1-23.

Group 3 - Steps 24-37.

Group 4 - Steps 38-43.

Bag 2 - Fire Truck

Group 5 - Steps 44-53 and 2 black 1x3 tiles from Step 54.

Group 6 - Rest of Step 54 and Steps 55-66.

Group 7 - Step 67.

Group 8 - Steps 68-78.

Bag 3 - Fire Truck

Group 9 - Steps 79-90.

Group 10 - Steps 91-95 and 1 white 1x2 plate from Step 96.

Group 11 - Rest of Step 96 and Steps 97-115.

Group 12 - Steps 116-121.

Bag 4 - Pilot and Submarine

Group 13 - Steps 1-3.

Group 14 - Steps 1-4.

Group 15 - Steps 5-11.

Group 16 - Step 12.

Group 17 - Steps 13-24.

Group 18 - Steps 25-46.

Bag 5 - Submarine

Group 19 - 1 tan 2x4 plate from Step 47.

Group 20 - Rest of Step 47 and Steps 48-49.

Group 21 - Steps 50-51.

Group 22 - Step 52.

Group 23 - Steps 53-69.

Bag 6 - Submarine

Group 24 - Steps 70-80.

Group 25 - Step 81.

Group 26 - Steps 82-95 and 1 tan 1x3 plate from Step 96.

Group 27 - Rest of Step 96 and Steps 97-101.

Group 28 - Steps 102-104 and 1 tan 1x3 plate from Step 105.

Group 29 - Rest of Step 105 and Steps 106-117.

Bag 7 - Pilot and Helicopter

Group 30 - Page 3.

Group 31 - Steps 1-23.

Group 32 - Steps 24-31 and 1 transparent blue 1x2 tile from Step 32.

Group 33 - Rest of Step 32 and Steps 33-41.

Bag 8 - Helicopter

Group 34 - Steps 42-54 and 2 yellow 1x4 plates from Step 55.

Group 35 - Rest of Step 55 and 2 dark blue 2x2 triangle tiles from Steps 56-57.

Group 36 - Rest of Steps 56-57 and Steps 58-65.

Bag 9 - Helicopter

Group 37 - Steps 66-73.

Group 38 - Steps 74-81.

Group 39 - Steps 82-88.

Group 40 - Steps 89-97.

Group 41 - Steps 98-104.

Group 42 - Steps 105-111.

Group 43 - Steps 112-117.

Group 44 - Steps 118-120.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Firefighter

Sub-build 1.1. Locate 1 black pair of legs with a neon green stripe, 1 black torso printed with a white undershirt, a red collar, and neon stripe, 1 yellow head printed with black eyes, red lips, and a blue pair of glasses, 1 brown hair, and 1 silver axe with a red axe head. Assemble your minifigure and attach the axe to her hand!

Sub-build 1.2. Locate a neon yellow helmet and a transparent face shield. Attach the faceshield to the helmet, then you can switch this out with her hair if you like!

Group 2 - Fire Truck

Step 1

Vertically place a tan 2x4 plate in front of you. Then horizontally place a black 1x4 plate on the back row so it is centered horizontally.

Step 2

Place a red 1x1 plate with 2 side studs sticking up underneath the back right corner so the side studs face the right. Then repeat symmetrically to the left.

Step 3

Vertically place a tan 2x4 plate on the front 3 rows so it overhangs 1 row to the front.

Step 4

Horizontally place a white 1x2 plate underneath the front row.

Step 5

Place a dark grey 2x2 corner brick on the back 2 rows and 2 leftmost columns so it looks like the braille letter d. Then repeat symmetrically to the right. Now horizontally place a black 1x4 plate on the back row.

Step 6

Horizontally place a light grey 1x2 brick with 2 side studs on the front row so the side studs face the front. Then horizontally place a light grey 2x4 plate with 2 pins behind the ppp so it is centered horizontally and the pins face left and right.

Step 7

Vertically place a black 2x4 brick with a mudguard on the front 2 rows of the rightmost column so it is centered vertically on it and the mudguard faces the right. Then repeat symmetrically to the left.

Step 8

Horizontally place a tan 2x4 plate on the 2nd and 3rd rows from the front so it is centered horizontally. Then horizontally place a neon yellow 1x6 plate behind the tan plate so it is centered horizontally.

Step 9.1

Let's make a part! Horizontally place a dark grey 2x6 plate with 4 side studs in front of you so the side studs face the back. Then place a transparent orange 1x1 plate on the back left corner. Then repeat symmetrically to the right.

Step 9.2

Place 2 dark grey 1x1 tiles with a clip, 1 to the right of the other, on the front row so they are centered horizontally and the clip hands face the front and back.

Step 9.3

Horizontally place 2 transparent blue 1x2 tiles, 1 to the right of the other, on the back row so they are centered horizontally. Then place a transparent 1x1 round tile on the back left corner. Then repeat symmetrically to the right.

Step 9.4

Horizontally place a black 1x2 grill slope tile on the front left corner so it slopes to the left. Then repeat symmetrically to the right.

Step 9.5

Horizontally attach a bar grill to the top-facing clips so it curves to the back and the rounded parts are on the back left and back right.

Step 9.6

Horizontally place your part upright on the front-facing side studs of the main build so it is centered horizontally, hangs 1 row down, and the round tiles are on the top left and top right.

Step 10

Horizontally place a neon yellow 2x6 plate with a round side on the front 2 rows so it is centered horizontally and the round side faces the front.

Step 11

Place a dark grey 2x2 corner brick on the back 2 rows of the 2nd and 3rd columns from the left so it looks like the braille letter d. Then repeat symmetrically to the right.

Step 12

Place 2 black 1x1 plates with a clip, 1 to the right of the other, on the back row so they are centered horizontally and the clips face the back.

Step 13

Place a black 1x1 plate with 2 side studs hanging down on the leftmost column of the back row so the side studs face the left. Then repeat symmetrically to the right.

Step 14

Vertically place a white 1x4 plate with inverted slope sides on the 2nd column from the left, on the 2nd, 3rd, 4th, and 5th rows from the front. Then repeat symmetrically to the right.

Step 15

Place a red 1x1 brick with a clip on the back row of the rightmost column so the clip faces the right. Then repeat symmetrically to the left.

Step 16

Vertically place a red 1x2 jumper plate on the leftmost column in front of the ppp. Then repeat symmetrically to the right.

Step 17

Horizontally place 2 red 1x2 plates with a rail, 1 to the right of the other, on the front row so they are centered horizontally and the rails face the front. Then horizontally place a light grey 1x2 steering wheel on the 2nd row from the front so it is centered horizontally and the steering wheel faces the back.

Step 18

Place a red 1x1 plate with 2 side studs sticking up on the front row of the rightmost column so the side studs face the front. Then repeat symmetrically to the left.

Step 19

Vertically place a red 1x3x1 curved door on the front 3 rows of the rightmost column so the stud is in the front and the door handle faces the right. It should sit on the ppp and a 1x2 jumper plate. Then repeat symmetrically to the left.

Step 20

Horizontally place a black 1x4 plate on the front row so it is centered horizontally. Then horizontally place 2 red 1x2 plates with a rail, 1 to the right of the other, on top of the ppp, so they are centered horizontally and the rails face the front.

Step 21

Place a black 2x2 corner plate on the 2 leftmost columns of the front row so it overhangs 1 row to the back and it looks like the braille letter h. Then repeat symmetrically to the right.

Step 22

Horizontally place 2 red 1x2 plates with a rail, 1 to the right of the other, on the front row, so they are centered horizontally and the rails face the front.

Step 23

Vertically place a red 1x2 sloped curved brick upright on the 2 right front-facing side studs so it slopes to the right. Then repeat symmetrically to the left.

Group 3 - Fire Truck

Step 24

Horizontally place a light grey 1x4 plate on the back row so it is centered horizontally.

Step 25

Horizontally place 2 red 1x3 slope bricks, 1 to the right of the other, on the 2nd row from the back so they are centered horizontally and slope inwards.

Step 26

Horizontally place a white 1x4 plate with inverted slope sides on the back row so it is centered horizontally. Then horizontally place a red 1x2 brick with a pin on the long side on top of the ppp so it is centered horizontally and the pin faces the back. Then horizontally place a white 1x2 plate on top of the ppp.

Step 27

Place a black 1x1 plate with 2 side studs hanging down on the leftmost column of the back row so the side studs face the left. Then repeat symmetrically to the right.

Step 28

Place a red 1x1 brick with a clip on the leftmost column of the 2nd row from the back so the clip faces the left. Then repeat symmetrically to the right.

Step 29

Place a red 2x2 corner plate on the 2 leftmost columns of the back 2 rows so it looks like the braille letter j. Then repeat symmetrically to the right.

Step 30

Horizontally place a tan 1x4 brick on the back row so it is centered horizontally.

Step 31

Horizontally place a red 1x2 jumper plate on the 2 leftmost columns of the 2nd row from the back. Then repeat symmetrically to the right.

Step 32

Horizontally place a black 1x2 ingot tile on the back row so it is centered horizontally. Then place a black 1x1 plate with 2 side studs hanging down to the left of the ppp so the side studs face the left. Then repeat symmetrically to the right.

Step 33.1

Let's make 2 identical parts! Horizontally place a neon yellow 1x6 plate in front of you. Then place a red 1x1 tile on the rightmost column. Then horizontally place a red 1x4 tile to the left of the ppp. Now horizontally place a dark grey 1x2 sloped curved tile to the left of the ppp so it slopes and overhangs to the left.

Step 33.2

Now you should have 2 identical parts! Rotate your main build 180 degrees so the pin faces the front. Now vertically place 1 part upright on the bottom 6 left-facing side studs so it slopes down. Then repeat symmetrically to the right.

Step 34

Place a red 1x1 slope tile upright on the left-facing side stud above the ppp so it slopes up. Then repeat symmetrically to the right.

Step 35

Vertically attach a black 4L bar to the 2 left-facing clips so it is centered vertically on them. Then repeat symmetrically to the right.

Step 36

Rotate your build 180 degrees so the pin faces the back. Now place a red 1x1 plate with 2 side studs sticking up on the rightmost column of the 2nd row from the front so the side studs face the right. Then vertically place a black 1x2 ingot tile upright on the right-facing side studs of the ppp. Then repeat both parts symmetrically to the left.

Step 37

Horizontally place a transparent 2x6x2 windshield on the front 2 rows so it is centered horizontally and it slopes to the front.

Group 4 - Fire Truck

Step 38

Let's make a part! Horizontally place a black 1x6 plate in front of you.

Step 39

Place a red 2x2 corner plate underneath the 2 leftmost columns so 1 row overhangs to the front and it looks like the braille letter d. Then repeat symmetrically to the right.

Step 40

Horizontally place a red 4x6 car hood printed with a light grey shield with a fire emblem on the front row so it is centered horizontally and slopes to the front.

Step 41

Place a black 2x2 tile on the back 2 rows so it is centered horizontally. Then horizontally place a transparent blue 1x2 tile on the back row to the left of the ppp. Then repeat symmetrically to the right.

Step 42

Horizontally place your part on top of the windshield and 2 1x2 jumper plates so it is centered horizontally and it slopes and overhangs 1 row to the front.

Step 43

Let's make 2 identical parts! Attach a black wheel to a black tire. Now you should have 2 identical parts! Attach 1 wheel to the right-facing pin so the hollow side faces the right. Then repeat symmetrically to the left. Put your build away while we make the next build!

Building Instructions (Bag 2, Book 1):

Group 5 - Fire Truck

Step 44

Horizontally place a tan 2x4 plate in front of you. Then vertically place a black 1x4 tile with 2 studs on the leftmost column so it is centered vertically.

Step 45

Horizontally place a yellow 1x2 plate with 2x2 side studs sticking up underneath the front row so 1 column is exposed to the right and the side studs face the front. Then repeat symmetrically to the back.

Step 46

Horizontally place a tan 2x4 plate on the front 2 rows to the right of the 1x4 tile with 2 studs so it overhangs 1 column to the right and 1 row to the front. Then repeat symmetrically to the back.

Step 47

Horizontally place a yellow 1x2 plate with 2x2 side studs sticking up underneath the front right corner so the side studs face the front. Then place a red 1x1 plate with 2 side studs sticking up underneath the build to the left of the ppp so the side studs face the front. Now repeat both parts symmetrically to the back.

Step 48

Vertically place a light grey 1x2 plate underneath the rightmost column so it is centered vertically.

Step 49

Horizontally place a dark grey 1x4 brick on the front left corner. Then repeat symmetrically to the back.

Step 50

Horizontally place a white 1x3 plate upright on the top row of front-facing side studs so it is centered horizontally. Then repeat symmetrically to the back.

Step 51

Vertically place a dark grey 1x4 brick on the leftmost column so it is centered vertically.

Step 52

Place 2 black 1x1 bricks with a clip, 1 in front of the other, on the leftmost column so they are centered vertically and the clips face the left. Now place a tan 1x1 round plate in front and behind the 2 ppp.

Step 53

Vertically place 3 neon yellow 1x6 plates, 1 to the right of the other, on the 2nd, 3rd, and 4th columns from the left so they are centered vertically.

You will have 2 extra black 1x3 tiles. Save them for later!

Group 6 - Fire Truck

Step 54

Horizontally place a red 1x3 tile on the back row so it is centered horizontally. Now horizontally place 2 black 1x3 tiles from group 5, 1 in front of the other, in front of the ppp.

Step 55

Horizontally place a red 1x3 tile on the front row so it is centered horizontally. Then horizontally place 2 red 1x3 bricks, 1 in front of the other, behind the ppp.

Step 56

Vertically place a white 1x4x2 panel on the rightmost column so it is centered vertically and the wall faces the right.

Step 57

Vertically place a black 1x2 rounded brick with a gap on the rightmost column so it is centered vertically. Then place a tan 1x1 round plate in front and behind the ppp.

Step 58

Place a black 1x1 plate with 2 side studs hanging down on the front row of the rightmost column so the side studs face the front. Then repeat symmetrically to the left. Now repeat both parts symmetrically to the back.

Step 59

Vertically place a light grey 1x2 plate on the rightmost column so it is centered vertically. Then repeat symmetrically to the left.

Step 60

Place a white 1x1 brick with a pin hole on the front right corner so the hole faces left and right. Then place a tan 1x1 round plate on top of the ppp. Now repeat both parts symmetrically to the left.

Step 61

Horizontally place a red 2x3x2 cabinet on the 2nd and 3rd rows from the front so it is centered horizontally and the opening faces the front. Then attach a dark grey cabinet door to the front so it opens to the left.

Step 62

Vertically place a blue 1x2 brick with a pinhole on the rightmost column on the 2nd and 3rd rows from the back. Then vertically place a red 1x2 brick with a pin on the long side on the leftmost column on the 2nd and 3rd rows from the back so the pin faces the left.

Step 63.1

Let's make a part! Place a white 1x1 brick with a pinhole in front of you so the hole faces left and right. Then place a tan 1x1 round plate on top. Now attach a black 2L pin to the left-facing hole so the pin faces the left.

Step 63.2

Attach a light grey cylinder with 2 gears and a stud to the left-facing pin so the stud faces the front.

Step 63.3

Attach a tan 3L pin to the left-facing pinhole so the 2L pin faces the left. Now attach a light grey 1L pin connector to the left-facing pin so it goes all the way in.

Step 63.4

Attach a white 1x1 brick with a hole to the left-facing pin. Then place a tan 1x1 round plate on top of the ppp.

Step 63.5

Rotate your main build 180 degrees so the pin faces the right. Now horizontally place your part on the front row of studs so it is centered horizontally.

Step 64

Place a black 1x1 plate with 2 side studs hanging down on the front left corner so the side studs face the front. Then repeat symmetrically to the right. Now repeat both parts symmetrically to the back.

Step 65

Vertically place a dark grey 1x4 brick on the back left corner. Now horizontally place a red 2x4 brick to the right of the back 2 rows of the ppp. Now vertically place a dark grey 1x2 brick in front of the rightmost column of the ppp.

Step 66

Place a black 1x4 tile with 2 studs on the rightmost column so there is no overhang. Then place a black 4x4 plate to the left of the ppp.

Group 7 - Fire Truck

Step 67

Place a black 1x1 plate with 2 side studs hanging down on the front left corner so the side studs face the front. Then repeat symmetrically to the right. Now horizontally place a black 1x3 tile in between the 2 ppp. Now repeat everything symmetrically to the back.

Group 8 - Fire Truck

Step 68.1

Let's make 2 identical parts! Horizontally place a black 1x6 plate in front of you. Then horizontally place a red 1x2 grill tile on the 2 rightmost columns. Now horizontally place a red 1x3 tile to the left of the ppp.

Step 68.2

Now you should have 2 identical parts! Rotate your main build 180 degrees so the pin faces the left. Now vertically place 1 part upright on the leftmost front-facing side studs so it is centered vertically on them and the grill tile is on top. Then repeat symmetrically to the right.

Step 69

Vertically place a dark grey 1x2 sloped curved tile upright on the bottom 2 rows of front-facing side studs so it is centered horizontally and slopes down. Now place a dark grey 2x2 sloped curved tile upright to the left and right of the ppp so they slope down.

Step 70.1

Let's make 2 identical parts! Horizontally place a black 1x6 plate in front of you. Then horizontally place a red 1x2 grill tile on the 2 rightmost columns. Now horizontally place a red 1x3 tile to the left of the ppp.

Step 70.2

Now you should have 2 identical parts! Rotate your main build 180 degrees so the pin faces the left. Now vertically place 1 part upright on the leftmost front-facing side studs so it is centered vertically on them and the grill tile is on top. Then repeat symmetrically to the right.

Step 71

Vertically place a dark grey 1x2 sloped curved tile upright on the bottom 2 rows of front-facing side studs so it is centered horizontally and slopes down. Now place a dark grey 2x2 sloped curved tile upright to the left and right of the ppp so they slope down.

Step 72

Place a red 1x1 slope tile upright on the top left front-facing side stud so it slopes up. Then repeat symmetrically to the right. Now repeat both parts symmetrically to the back.

Step 73

Place a black 2x2 round tile with a stud on the 2nd and 3rd columns from the left so it is centered vertically.

Step 74

Horizontally place a white stud shooter on top of the ppp so the barrel faces the left. Now attach 1 end of a yellow rope to the right-facing stud of the ppp.

Step 75

Attach the other end of the rope to the front-facing side stud of the cylinder with 2 gears.

Step 76

Now spin the cylinder with gears to roll up the excess rope.

Step 77

Bring back your previous build and attach the pin of it to the center left-facing pinhole of the current build.

Step 78

Locate 4 transparent blue 1x1 round tiles. This is the water for the stud shooter! Now rotate your build 180 degrees, then insert the 4 tiles into the front-facing cabinet! Now put your build away while we make the rest of the fire truck!

Building Instructions (Bag 3, Book 1):

Group 9 - Fire Truck

Step 79

Horizontally place a black 2x6 plate in front of you. Then vertically place a light grey 1x4 plate on the leftmost column so it is centered vertically.

Step 80

Place a red 1x1 plate with 2 side studs sticking up underneath the front left corner so the side studs face the front. Then repeat symmetrically to the back.

Step 81

Horizontally place a white 2x4 plate on the 2nd, 3rd, 4th, and 5th columns from the right.

Step 82

Place a dark grey 2x2 corner brick on the front 2 rows of the 2 leftmost columns so it looks like the braille letter f. Then repeat symmetrically to the back.

Step 83

Vertically place a blue 1x2 brick with a pin hole on the 2nd column from the right. Then vertically place a light grey 2x4 plate with pins to the left of the pins so it is centered vertically and the pins face the front and back.

Step 84

Horizontally place a black 2x4 brick with a mudguard on the front row of the 3rd and 4th columns from the left so 1 row overhangs to the front and the mudguard faces the front. Then repeat symmetrically to the back.

Step 85

Vertically place a light grey 1x4 plate on the rightmost column so it is centered vertically.

Step 86

Place a red 1x1 plate with 2 side studs sticking up underneath the front row of the rightmost column so the side studs face the front. Then repeat symmetrically to the back.

Step 87

Vertically place a dark grey 1x4 brick with 4 side studs on the rightmost column so it is centered vertically and the side studs face the right.

Step 88

Vertically place a light grey 1x4 plate on the leftmost column so it is centered vertically.

Step 89

Vertically place a neon yellow 1x6 plate on the 2nd column from the left so it is centered vertically. Then repeat symmetrically to the right.

Step 90.1

Let's make a part! Horizontally place a dark grey 2x6 plate with 4 side studs in front of you so the side studs face the back. Then place a transparent orange 1x1 plate on the back left corner. Then repeat symmetrically to the right.

Step 90.2

Horizontally place a light grey 1x6 tile on the front row. Then horizontally place a transparent blue 1x2 tile on the back row so it is centered horizontally. Now place 2 transparent red 1x1 round tiles, 1 to the right of the other, on the back left corner. Then repeat symmetrically to the right.

Step 90.3

Horizontally place your part upright on the right-facing side studs so it is centered horizontally, hangs 1 row down and the 1x1 round tiles are on top.

Group 10 - Fire Truck

Step 91

Place a light grey 2x2 plate on the 2 rightmost columns so it is centered vertically.

Step 92

Horizontally place a light grey 1x2 plate with 2x2 side studs sticking up on the front right corner, in front of the ppp so the side studs face the front. Then repeat symmetrically to the back.

Step 93

Vertically place a red 1x4 tile on the rightmost column so it is centered vertically.

Step 94

Horizontally place a red 1x4 tile on the front row. Then repeat symmetrically to the back.

Step 95

Horizontally place a light grey 1x6 brick on the 2nd row from the front on the 6 leftmost columns. Then repeat symmetrically to the back. Now place a light grey 2x2 brick in between the 2 rightmost columns of the 2 ppp.

Step 96.1

Vertically place a white 1x2 plate on the leftmost column so it is centered vertically.

Group 11 - Fire Truck

Step 96.2

Vertically place a red 1x2 plate on the leftmost column so it is centered vertically.

Step 97

Vertically place a black 1x4 tile with 2 studs on the rightmost column of studs so it is centered vertically.

Step 98

Vertically place a light grey 1x4 plate on the ppp so it is centered vertically.

Step 99

Vertically place a black 1x2 rounded brick with a gap on the leftmost column so it is centered vertically. Then place a black 1x1 plate with 2 side studs hanging down on the front left corner so the side studs face the front. Then repeat symmetrically to the back.

Step 100

Horizontally place a black 2x6 plate on the 6 leftmost columns so it is centered vertically. It should sit on 4 studs!

Step 101

Horizontally place a dark grey 1x4 brick with 4 side studs on the 2nd row from the front, on the 2nd, 3rd, 4th, and 5th columns from the left, in front of the ppp so the side studs face the front. Then repeat symmetrically to the back.

Step 102

Place a light grey 1x1 brick on the front left corner. Then repeat symmetrically to the back. Now repeat both parts symmetrically to the right.

Step 103

Vertically place a black 1x2 brick with a clip on the rightmost column of studs so it is centered vertically and the clip faces the right.

Step 104

Vertically place a blue 1x2 brick with a pinhole on the leftmost column so it is centered vertically. Then place a tan 1x1 round plate in front and behind the ppp.

Step 105

Place a black 1x1 plate with 2 side studs hanging down on the front left corner so the side studs face the front. Then repeat symmetrically to the back. Now repeat both parts symmetrically to the right.

Step 106

Horizontally place a light grey 2x6 brick on the 6 leftmost columns so it is centered vertically. It should sit on 4 studs!

Step 107

Horizontally place 2 tan 1x2x2 bricks with 2x2 side studs, 1 to the right of the other, in front of the ppp so they are centered horizontally to the ppp and the side studs face the front.

Step 108

Horizontally place a blue 2x4 sloped curved tile upright on the top 2 rows of front-facing side studs so it slopes up. Then horizontally place another 1 upright on the front-facing side studs below the ppp so it slopes down.

Step 109

Rotate your build 180 degrees. Now horizontally place 2 tan 1x2x2 bricks with 2x2 side studs, 1 to the right of the other, on the front row of studs so they are centered horizontally to the 2x6 brick that is behind them and the side studs face the front.

Step 110

Horizontally place a blue 2x4 sloped curved tile upright on the top 2 rows of front-facing side studs so it slopes up. Then horizontally place another 1 upright on the front-facing side studs below the ppp so it slopes down.

Step 111

Place a light grey 1x1 brick on the front right corner. Then repeat symmetrically to the back. Now repeat both parts symmetrically to the left.

Step 112

Horizontally place 2 black 1x2 plates with a bar on the long side, 1 to the right of the other, on the front row so they are centered horizontally and the bars face the front. Then repeat symmetrically to the back.

Step 113

Vertically place a black 1x4 tile with 2 studs on the rightmost column so it is centered vertically. Then repeat symmetrically to the left.

Step 114

Horizontally place 2 blue 2x4 sloped curved tiles, 1 in front of the other, on top so they are centered horizontally and slope outwards to the front and back.

Step 115

Place a black 1x1 plate with 2 side studs hanging down on the front right corner so the side studs face the front. Then repeat symmetrically to the back. Now repeat both parts symmetrically to the left.

Group 12 - Fire Truck

Step 116.1

Let's make a part! Horizontally place a black 1x6 plate in front of you. Then horizontally place a dark grey 1x2 sloped curved tile on the rightmost column so it slopes and overhangs to the right.

Step 116.2

Horizontally place a red 2x3 wedge plate on the 3 leftmost columns so the angled side overhangs 1 row to the front and the short side faces the left. Then place a red 2x2 tile to the right of the ppp so 1 row overhangs to the front. Now horizontally place a red 1x2 plate underneath the overhang of the ppp.

Step 116.3

Vertically place your part upright on the 2 leftmost columns of the lower 6 rows of front-facing side studs so it slopes down.

Step 117.1

Let's make 2 identical parts! Horizontally place a black 1x6 plate in front of you. Then horizontally place a dark grey 1x2 sloped curved tile on the leftmost column so it slopes and overhangs to the left.

Step 117.2

Horizontally place a red 1x1 tile on the rightmost column. Then horizontally place a red 1x4 tile to the left of the ppp.

Step 117.3

Now you should have 2 identical parts! Vertically place 1 part upright on the bottom 6 rows of the rightmost column of front-facing side studs so it slopes down. Then repeat symmetrically to the back.

Step 118.1

Let's make a part! Horizontally place a black 1x6 plate in front of you. Then horizontally place a dark grey 1x2 sloped curved tile on the leftmost column so it slopes and overhangs to the left.

Step 118.2

Horizontally place a red 2x3 wedge plate on the 3 rightmost columns so the angled side overhangs 1 row to the front and the short side faces the right. Then place a red 2x2 tile to the left of the ppp so 1 row overhangs to the front. Now horizontally place a red 1x2 plate underneath the overhang of the ppp.

Step 118.3

Rotate your build 180 degrees, then vertically place your part upright on the bottom 6 rows of the front-facing side studs that are on the 2 rightmost columns so it slopes down.

Step 119

Place a red 1x1 slope tile upright on the top left front-facing side stud so it slopes up. Then repeat symmetrically to the right. Now repeat both parts symmetrically to the back.

Step 120

Let's make 2 identical parts! Attach a black wheel to a black tire. Now you should have 2 identical parts! Attach 1 wheel to the right-facing pin so the hollow side faces the right. Then repeat symmetrically to the left. Put your build away while we make the next build!

Step 121

Bring back your main build and orient it so it is horizontal and the pin faces the right. Now attach the pin to the left-facing hole of your current build and also attach the clips to the bars of the 1x2 rounded brick. Now put your fire truck away while we make the pilot and submarine!

Building Instructions (Bag 4, Book 2):

Group 13 - Pilot

Step 1

Attach a black pair of legs to a dark orange torso printed with a dark grey belt and zipper, and then place it in front of you so the hands face the front.

Step 2

Place a black scuba tank on top of his neck so it hangs down in the back! Then place a yellow head printed with eyes, lips, and a beard on top.

Step 3.1

Place a black hair on top of his head.

Step 3.2

Let's make a part! Attach a transparent blue scuba face mask to a black helmet. You can switch this out for his hair if you like!

Step 3.3

Let's make a part! Attach a transparent blue 1x1 round tile to a black camera, then attach it to his hand! Now put him away while we make the submarine!

Group 14 - Submarine

Step 1

Place a tan 2x2 plate with 2 side studs in front of you so the side studs face the front. Then horizontally place a light grey 1x2 plate on the back row.

Step 2

Place a tan 1x1 brick with a side stud on the back left corner so the side stud faces the left. Then repeat symmetrically to the right.

Step 3

Place a red 1x1 brick with 2 side studs on the front left corner so the side studs face the front and left. Then repeat symmetrically to the right.

Step 4

Vertically place a white 1x2x2 brick with 2x2 side studs on top of the left column so the side studs face the left. Then repeat symmetrically to the right.

Group 15 - Submarine

Step 5

Horizontally place a red 1x2 plate on the front row. Now place a black 1x1 plate with a clip on the back left corner so the clip faces the back. Then repeat symmetrically to the right.

Step 6

Place a dark grey 2x2 plate on top.

Step 7.1

Let's make a part! Horizontally place a black 2x6 plate with 4 side studs in front of you so the side studs face the front. Then horizontally place a black 1x4 plate on the back row so it is centered horizontally.

Step 7.2

Vertically place a red 1x2 tile with a round side on the leftmost column so the round side faces the left. Then repeat symmetrically to the right. Now place a red 2x2 dome brick on the 2 leftmost columns so it sits on top of the ppp. Then repeat symmetrically to the right.

Step 7.3

Horizontally place your part upright on the front-facing side studs so the 4 side studs face up.

Step 8.1

Let's make a part! Horizontally place a black 2x6 plate with inverted slope sides in front of you. Then place a dark grey 1x1 round tile with a top-facing bar on the front row on the 2nd column from the left. Then repeat symmetrically to the right.

Step 8.2

Horizontally place your part on the front row, on top of the ppp so it is centered horizontally and 1 row overhangs to the front.

Step 9

Vertically place a light grey 2x5 stair plate on top so it is centered horizontally, the higher side is in the back, and 1 row overhangs to the front.

Step 10

Horizontally place a red 1x2 brick with a pin on the back row so the pin faces the back. Then horizontally place a dark grey 1x2 log brick in front of the ppp. Now horizontally place a black 1x2 grill tile in front of the ppp.

Step 11

Place a light grey 1x1x3 brick on the back row of the 2nd column from the left so it sits behind a 1x1 round tile with a top-facing bar. Then repeat symmetrically to the right.

Group 16 - Submarine

Step 12.1

Let's make 2 identical parts! Horizontally place a yellow 1x2 plate in front of you. Then horizontally place a yellow 1x2x2 window frame on top so the ridged side faces the front. Now attach a transparent window pane to the front of the ppp. Then horizontally place a yellow 1x2 plate on top.

Step 12.2

Now you should have 2 identical parts! Vertically place 1 on the leftmost column so the pane faces the left. Then repeat symmetrically to the right.

Group 17 - Submarine

Step 13

Horizontally place a light grey 1x2 plate on the back row.

Step 14

Vertically place 2 light grey 1x2 plates with an inverted slope, 1 to the right of the other, on the 2nd row from the back so they are centered horizontally and slope and overhang to the front.

Step 15

Vertically place 2 black 1x2 bricks with 2 side studs, 1 to the right of the other, on the back 2 rows so they are centered horizontally and the side studs face left and right.

Step 16

Let's make a part! Horizontally place a black 2x8 plate in front of you. Then horizontally place a red 2x4 plate on the 4 leftmost columns.

Step 17

Place a red 2x2 half cylinder brick on the 2 leftmost columns so it slopes to the left and right. Now horizontally place 2 black 1x1 plates with a 1x1 slope tile, 1 in front of the other, to the right of the ppp so they slope to the left.

Step 18

Vertically place a black 1x2 grill tile on the leftmost column on top of the 2x2 half cylinder brick. Then place a light grey 2x2 brick on the 3rd and 4th columns from the right.

Step 19

Vertically place a light grey 1x2 plate on the 5th column from the right. Then horizontally place 2 yellow 1x1 plates with a 1x1 sloped curved brick, 1 in front of the other, on the 2 rightmost columns so they slope to the right.

Step 20

Horizontally place a black 1x4 plate on the front right corner. Then horizontally place a yellow 1x4 tile behind the ppp.

Step 21

Horizontally place a black 1x2 plate with 2 side studs sticking up on the front row on the 3rd and 4th columns from the right so the side studs face the front. It should be centered horizontally on the 1x4 plate!

Step 22

Horizontally place a black 1x4 sloped curved tile on top of the ppp so it is centered horizontally on it.

Step 23

Place 2 transparent blue 1x1 round tiles, 1 to the right of the other, upright on the front-facing side studs.

Step 24

Vertically place your part upright on the left-facing side studs that are on the back 2 rows so the grill tile is on the bottom and faces the left.

Group 18 - Submarine

Step 25

Let's make a part! Horizontally place a black 2x8 plate in front of you. Then horizontally place a red 2x4 plate on the 4 rightmost columns.

Step 26

Place a red 2x2 half cylinder brick on the 2 rightmost columns so it slopes to the left and right. Now horizontally place 2 black 1x1 plates with a 1x1 slope tile, 1 in front of the other, to the left of the ppp so they slope to the right.

Step 27

Vertically place a black 1x2 grill tile on the rightmost column on top of the 2x2 half cylinder brick. Then place a light grey 2x2 brick on the 3rd and 4th columns from the left.

Step 28

Vertically place a light grey 1x2 plate on the 5th column from the left. Then horizontally place 2 yellow 1x1 plates with a 1x1 sloped curved brick, 1 in front of the other, on the 2 leftmost columns so they slope to the left.

Step 29

Horizontally place a black 1x4 plate on the front left corner. Then horizontally place a yellow 1x4 tile behind the ppp.

Step 30

Horizontally place a black 1x2 plate with 2 side studs sticking up on the front row on the 3rd and 4th columns from the right so the side studs face the front. It should be centered horizontally on the 1x4 plate!

Step 31

Horizontally place a black 1x4 sloped curved tile on top of the ppp so it is centered horizontally on it.

Step 32

Place 2 transparent blue 1x1 round tiles, 1 to the right of the other, upright on the front-facing side studs.

Step 33

Vertically place your part upright on the right-facing side studs that are on the back 2 rows so the grill tile is on the bottom and faces the right.

Step 34

Vertically place a light grey 1x2 plate with an inverted slope on the 2nd column from the right, in front of the ppp so it slopes and overhangs to the front. Then repeat symmetrically to the left.

Step 35.1

Let's make a part! Horizontally place a yellow wing with 2 axle holes in front of you so the angled side faces the left, and the axle holes face the front and the right. Now insert a light grey 3L axle into the right-facing axle hole. Then attach 2 black 1x1 bricks with an axle hole to the right-facing axle.

Step 35.2

Horizontally place your part on the 2nd row from the front of the 2 leftmost columns so the wing overhangs to the left.

Step 36.1

Let's make a part! Horizontally place a yellow wing with 2 axle holes in front of you so the angled side faces the right, and the axle holes face the front and the left. Now insert a light grey 3L axle into the left-facing axle hole. Then attach 2 black 1x1 bricks with an axle hole to the left-facing axle.

Step 36.2

Horizontally place your part on the 2nd row from the front of the 2 rightmost columns so the wing overhangs to the right.

Step 37

Horizontally place 2 black 1x3 rounded plates, 1 to the right of the other, on the 3rd row from the back so they are centered horizontally.

Step 38

Horizontally place a yellow 1x1 plate with a 1x1 sloped curved brick on the front row of the 2 leftmost columns so it slopes to the left. Then repeat symmetrically to the right.

Step 39

Horizontally place a light grey 1x4 plate with 2 hinges on the front row on top of the 2 ppp so the hinges face the front.

Step 40

Vertically place a yellow 2x4 plate on the back 4 rows so it is centered horizontally.

Step 41

Horizontally place a black 1x2 plate with 2 side studs sticking up on the front row of the ppp so the side studs face the front.

Step 42

Place a black 4x4 slope brick with ridges on the back 4 rows so it is centered horizontally and slopes to the back.

Step 43

Place 2 transparent blue 1x1 round tiles, 1 to the right of the other, upright on the top 2 front-facing side studs.

Step 44

Break off a black wand from a set of 2 wands, then place 1 on the rightmost stud, to the left of the wing so it points up. Then repeat symmetrically to the left.

Step 45.1

Let's make 2 identical parts! Place a transparent blue 2x2 inverted round tile with a rounded bottom in front of you. Then place a black 2x2 round tile with a stud on top. Now place a black 2x2 dish on top. Then insert a black 2L bar with a stop into the top-facing stud.

Step 45.2

Now you should have 2 identical parts! Attach the bar of 1 part to the leftmost front-facing axle hole of the wing. Then repeat symmetrically to the right.

Step 46

Attach the hinge connectors of a transparent dome windshield to the front-facing hinges so the dome hangs down and the dome side faces the front. Now put your build away while we make the next part!

Building Instructions (Bag 5, Book 2):

Group 19 - Submarine

Step 47.1

Horizontally place a tan 2x4 plate in front of you.

Group 20 - Submarine

Step 47.2

Horizontally place a white 2x4 plate on top.

Step 48

Horizontally place a light grey 1x4 brick with 4 side studs on the front row so the side studs face the front. Then repeat symmetrically to the back.

Step 49

Vertically place a dark grey 1x2 log brick on the leftmost column. Then repeat symmetrically to the right.

Group 21 - Submarine

Step 50

Horizontally place a tan 2x4 plate on top.

Step 51

Place a black 1x1 brick with a clip on the front right corner so the clip faces the right. Then repeat symmetrically to the back.

Group 22 - Submarine

Step 52

Vertically place a black 1x2 rounded brick with a gap on the leftmost column. Then horizontally place a white 2x4 plate on top so it is centered horizontally.

Group 23 - Submarine

Step 53

Vertically place a blue 1x2 brick with a pinhole on the leftmost column. Then vertically place a red 1x2 brick with a pin on the rightmost column so the pin faces the right. Then horizontally place a tan 2x4 plate on top so it is centered horizontally.

Step 54

Horizontally place a light grey 1x4 brick with 4 side studs on the front row so the side studs face the front. Then repeat symmetrically to the back.

Step 55

Place a yellow 2x2 tile with 2 studs on the 2 leftmost columns so the studs are on the right. Then repeat symmetrically to the right. Now place a black 2x2 round tile with an upright pin hole on top so it is centered horizontally and the hole faces the front and back.

Step 56

Let's make 2 identical parts! Horizontally place a black 4x8 plate in front of you.

Step 57

Horizontally place a red 2x6 plate on the back left corner. Then repeat symmetrically to the front.

Step 58

Place a red 2x2 half cylinder brick on the back left corner so it slopes to the left and right. Then repeat symmetrically to the front.

Step 59

Horizontally place 4 black 1x1 plates with a 1x1 slope tile, 1 in front of the other, on the 3rd and 4th columns from the left so they are centered vertically and slope to the left.

Step 60

Vertically place a black 1x4 tile on the leftmost column on top of the 2x2 half cylinder bricks. Then vertically place a light grey 1x4 plate on the 5th column from the right.

Step 61

Vertically place a red 2x4 plate with higher ends on the 3rd and 4th columns from the right.

Step 62

Vertically place a yellow 1x4 plate with a 1x4 sloped curved brick on the 2 rightmost columns so it slopes to the right.

Step 63

Horizontally place a black 2x4 plate with holes on top so it is centered vertically. Now horizontally place a yellow 1x2 tile on the front row so it is centered horizontally to the ppp. Now repeat symmetrically to the back.

Step 64

Vertically place 2 black 1x2 sloped curved tiles, 1 in front of the other, on the 2nd column from the right so they slope outwards to the front and back. Then repeat symmetrically to the 5th column from the right.

Step 65

Place a black 2x2 round tile with a hole on top, in between the 4 ppp so it is centered vertically.

Step 66

Insert a red 1L pin with a ball into the top-facing hole of the ppp so the ball faces up.

Step 67

Now you should have 2 identical parts! Vertically place 1 part upright on the 8 front-facing side studs so the upright 1x4 tile is on the bottom. Then repeat symmetrically to the back.

Step 68.1

Let's make 2 identical parts! Horizontally place a dark grey 1x2 plate with a bar on the short side in front of you so the bar faces the left. Then horizontally place a light grey 1x2 plate with a socket on the short side on top so the socket faces the right.

Step 68.2

Horizontally place a dark grey 1x2 plate with a bar on the short side on top so the bar faces the left. Then horizontally place a black 1x2 plate with a stud and a clip on top so the clip is on the left.

Step 68.3

Attach the ball of a dark grey 1x2 plate with a ball and socket on the short sides to the right-facing socket so the socket faces the right. Then horizontally place a black 1x2 grill tile on top of the ppp.

Step 68.4

Attach a black claw to the top left facing bar so the curve faces up. Then repeat symmetrically to the bottom.

Step 68.5

Now you should have 2 identical parts! Attach the socket of 1 part to the front-facing ball so the claws face the left and right. Then repeat symmetrically to the back. These are the arms of the submarine!

Step 69

Bring back your previous build and place it in front of you so the pin and 2 clips face the right. Now attach the pin to the left-facing hole of your current build, then attach the clips to the bars of the 1x2 rounded brick. Now put your build away while we make the next part!

Building Instructions (Bag 6, Book 2):

Group 24 - Submarine

Step 70

Place a dark grey 2x2 plate with 2 side studs in front of you so the side studs face the front. Then horizontally place a red 1x2 plate on the back row.

Step 71

Place a tan 1x1 brick with a side stud on the back left corner so the side stud faces the left. Then repeat symmetrically to the right.

Step 72

Place a red 1x1 brick with 2 side studs on the front left corner so the side studs face the left and front. Then repeat symmetrically to the right.

Step 73.1

Let's make a part! Horizontally place a black 2x6 plate with 4 side studs in front of you so the side studs face the front. Then horizontally place a black 1x4 plate on the back row so it is centered horizontally.

Step 73.2

Vertically place a red 1x2 tile with a round side on the leftmost column so the round side faces the left. Then repeat symmetrically to the right. Now place a red 2x2 dome brick on the 2 leftmost columns so it sits on top of the ppp. Then repeat symmetrically to the right.

Step 73.3

Horizontally place your part upright on the front-facing side studs so it is centered horizontally and the side studs face up.

Step 74

Place a white 2x2 plate on the back 2 rows.

Step 75.1

Let's make a part! Horizontally place a black 2x6 plate with inverted slope sides in front of you. Then vertically place a light grey 1x2 plate on the 2nd column from the left. Then repeat symmetrically to the right.

Step 75.2

Place a tan 1x1 round plate on the back row on the 2nd column from the left. Then place a dark grey 1x1 round plate with a bar in front of the ppp so the bar faces the front. Then repeat both parts symmetrically to the right.

Step 75.3

Horizontally place your part on the front row so it is centered horizontally, overhangs 1 row to the front, and the bars face the front.

Step 76

Vertically place a light grey 2x4 plate on top so it is centered horizontally and vertically.

Step 77

Place a short tan 2x2 ridged brick on the back 2 rows. Now horizontally place a black 1x2 rounded brick with a gap on the back row.

Step 78

Horizontally place a dark grey 1x2 log brick on the 2nd row from the back. Then place a white 2x2 plate on the back 2 rows.

Step 79

Place a light grey 2x2x2 cabinet on the front 2 rows so it is centered horizontally and the opening faces the front. Now attach a light grey cabinet door to the front.

Step 80.1

Let's make 2 identical parts! Place a black 2x2 tile with 2 studs in front of you so the studs are on the right. Then vertically place a black 1x2 plate with 2x2 side studs sticking up on top so the side studs face the left.

Step 80.2

Vertically place a dark grey 1x2 log brick on top. Then place a red 2x2 dome brick upright on the left-facing side studs.

Step 80.3

Now you should have 2 identical parts! Place 1 part on the 2 leftmost columns so the side stud faces the left. Then repeat symmetrically to the right.

Group 25 - Submarine

Step 81

Horizontally place a blue 1x2 brick with a pinhole on the back row. Then horizontally place a red 1x2 plate on top of the ppp.

Group 26 - Submarine

Step 82

Horizontally place a light grey 1x2 plate on the 2nd row from the back.

Step 83

Place 2 black 2x2 tiles with 2 studs, 1 to the right of the other, on the front 2 rows so the studs face towards each other.

Step 84

Let's make a part! Horizontally place a black 2x3 inverted slope brick in front of you so it slopes to the right. Then place a black 2x2 half cylinder brick on the 2 rightmost columns so it slopes to the front and back.

Step 85

Place a black 2x2 half cylinder brick on the leftmost column so it overhangs 1 column to the left and it slopes to the front and back.

Step 86

Horizontally place a black 1x6 brick with pinholes underneath the front left corner. Then repeat symmetrically to the back.

Step 87

Place a black 2x2 half cylinder brick on the 4th and 5th columns from the left so it slopes to the front and back. Then place another 1 to the left so it slopes to the front and back.

Step 88

Place a transparent 2x2 inverted round tile with a rounded bottom underneath the 2 rightmost columns of anti-studs.

Step 89

Horizontally place a yellow 1x8 tile with a wing on the 8 rightmost columns so the higher side of the wing is on the right.

Step 90

Rotate your previous build 90 degrees counterclockwise so the cabinet faces the right. Now horizontally place your part on the 3 rightmost columns so it is centered vertically and it overhangs 6 columns to the right and the wing is on the right.

Step 91

Horizontally place 2 light grey 1x2 bricks with 2 side studs, 1 in front of the other, on the 2 leftmost columns so they are centered vertically and the side studs face the front and back.

Step 92

Place a yellow 2x2 tile on the 2 leftmost columns so it is centered vertically.

Step 93

Let's make a part! Horizontally place a black 2x8 plate in front of you. Then horizontally place a red 2x4 plate on the 4 leftmost columns.

Step 94

Place a red 2x2 half cylinder brick on the 2 leftmost columns so it slopes to the left and right. Then horizontally place 2 black 1x1 plates with a slope tile, 1 in front of the other, on the 3rd and 4th columns from the left so they slope to the left.

Step 95

Vertically place a light grey 1x2 plate on the 5th column from the right. Then horizontally place a dark grey 1x2 log brick on the back row on the 3rd and 4th columns from the right.

Step 96.1

Vertically place a tan 1x3 plate on the 2nd column from the right so it overhangs 1 row to the front.

Group 27 - Submarine

Step 96.2

Vertically place a white 1x3 plate on top of the ppp.

Step 97

Vertically place a black 1x2 grill tile on the leftmost column on the 2x2 half cylinder brick. Then horizontally place 2 yellow 1x1 plates with a 1x1 sloped curved brick, 1 in front of the other, on the 2 rightmost columns so they slope to the right.

Step 98

Place a black 2x2 plate with a cutoff corner underneath the front overhang so 1 row overhangs to the front, 1 column overhangs to the right, and the cutoff corner faces the front right.

Step 99

Place a yellow 2x2 corner sloped curved brick with a 1x1 plate part on the front 2 rows of the 2 rightmost columns so it slopes to the front right corner.

Step 100

Place a yellow 1x1 tile on top of the ppp. Then horizontally place the rightmost column of a yellow 2x4 tile printed with a dark grey shield and trident behind the ppp.

Step 101

Vertically place your part upright on the 4 front-facing side studs so 2 columns overhang to the right and the 2x2 sloped curved brick is on the top right.

Step 102

Let's make a part! Horizontally place a black 2x8 plate in front of you. Then horizontally place a red 2x4 plate on the 4 rightmost columns.

Step 103

Place a red 2x2 half cylinder brick on the 2 rightmost columns so it slopes to the left and right. Then horizontally place 2 black 1x1 plates with a slope tile, 1 in front of the other, on the 3rd and 4th columns from the right so they slope to the right.

Step 104

Vertically place a light grey 1x2 plate on the 5th column from the left. Then horizontally place a dark grey 1x2 log brick on the back row on the 3rd and 4th columns from the left.

Step 105.1

Vertically place a tan 1x3 plate on the 2nd column from the left so it overhangs 1 row to the front.

Group 29 - Submarine

Step 105.2

Vertically place a white 1x3 plate on top of the ppp.

Step 106

Vertically place a black 1x2 grill tile on the rightmost column on the 2x2 half cylinder brick. Then horizontally place 2 yellow 1x1 plates with a 1x1 sloped curved brick, 1 in front of the other, on the 2 leftmost columns so they slope to the left.

Step 107

Place a black 2x2 plate with a cutoff corner underneath the front overhang so 1 row overhangs to the front, 1 column overhangs to the left, and the cutoff corner faces the front left.

Step 108

Place a yellow 2x2 corner sloped curved brick with a 1x1 plate part on the front 2 rows of the 2 leftmost columns so it slopes to the front left corner.

Step 109

Place a yellow 1x1 tile on top of the ppp. Then horizontally place the leftmost column of a yellow 2x4 tile printed with a dark grey shield and trident behind the ppp.

Step 110

Rotate your main build 180 degrees so the wing overhangs to the left. Then vertically place your part upright on the 4 front-facing side studs so 2 columns overhang to the left and the 2x2 sloped curved brick is on the top left.

Step 111

Let's make 2 identical parts! Horizontally place a black 2L ridged axle connector in front of you.

Step 112

Insert a blue 2L pin axle into the left-facing axle hole so the pin faces the left. Then repeat symmetrically to the right.

Step 113

Attach the right-facing hole of a yellow cylinder with 3 pinholes and a middle part to the left-facing pin so the center pinhole faces up. Then attach a black rotor to the top-facing pinhole.

Step 114

Insert a white 1L pin with a stud into the left-facing pinhole so the stud faces the left.

Step 115

Place a transparent blue 1x1 round tile upright on the left-facing side stud.

Step 116

Now you should have 2 identical parts! Attach the pin of 1 part to the leftmost front-facing pinhole so the rotor faces the left. Then repeat symmetrically to the back.

Step 117

Bring back your main submarine build and place it in front of you so it is horizontal and the pin and clips face the left. Now attach the pin to the main build to the right-facing pinhole of your current build, then attach the clips to the bar of the 1x2 rounded brick with a gap! Now put your submarine away while we make a pilot and a helicopter!

Building Instructions (Bag 7, Book 3):

Group 30 - Pilot

Sub-build 3.1. Locate 1 dark blue pair of legs, 1 light blue torso printed with a black vest and badge, 1 yellow head printed with eyes and lips, 1 light brown hair, and 1 light grey pair of handcuffs. Assemble your minifigure then attach the handcuffs to his hands!

Sub-build 3.2. Let's make a part! Attach a transparent face shield to a white helmet. You can switch this out for the pilot's hair if you like! Now put him away while we make the helicopter!

Group 31 - Helicopter

Step 1

Horizontally place a tan 2x3 plate in front of you. Then vertically place a white 1x4 plate on the rightmost column so it is centered vertically.

Step 2

Horizontally place a yellow 1x2 plate with 2x2 side studs sticking up underneath the front row so 1 column is exposed to the left and the side studs face the front. Then repeat symmetrically to the back.

Step 3

Vertically place a white 2x4 plate on the 2 leftmost columns so it is centered vertically.

Step 4

Place a red 1x1 plate with 2 side studs sticking up underneath the front left corner so the side studs face the front. Then repeat symmetrically to the back.

Step 5

Vertically place a red 2x4 plate with higher sides on the 2 rightmost columns.

Step 6

Horizontally place a light grey 2x5 stair plate on the 2 rightmost columns so it is centered vertically and the short side overhangs 3 columns to the right.

Step 7

Vertically place a dark grey 1x4 brick on the leftmost column.

Step 8

Vertically place a white 2x4 plate on the 2nd and 3rd columns from the left.

Step 9.1

Let's make a part! Horizontally place a black 2x6 plate in front of you. Then place a dark grey 2x2 inverted round tile with a rounded bottom underneath the 2 rightmost columns. Now vertically place a dark grey 1x2 grill tile on the rightmost column.

Step 9.2

Horizontally place a yellow 1x2 plate with 1x4 side studs on the front row to the left of the 1x2 grill tile so the side studs face the front. Then repeat symmetrically to the back.

Step 9.3

Horizontally place your part on the 2 rightmost columns so it is centered vertically and overhangs 4 columns to the right.

Step 10

Place a white 1x1 plate with a side stud hanging down on the front row of the 5th column from the left so the side stud faces the front. Then repeat symmetrically to the back.

Step 11

Vertically place a black 1x2 jumper plate on the 3rd column from the right.

Step 12

Place a dark grey 1x2x2 sloped curved brick upright on the rightmost front-facing side stud so it slopes and overhangs 1 column to the right. Then repeat symmetrically to the back.

Step 13.1

Let's make 2 identical parts! Horizontally place a light grey 1x6 plate in front of you. Then horizontally place a white 1x4 plate on the 4 leftmost columns. Now horizontally place a dark grey 1x3 plate on the 3 leftmost columns.

Step 13.2

Horizontally place a dark grey 1x2 grill tile on the 2 leftmost columns. Then horizontally place a dark grey 1x4 sloped curved brick to the right so it slopes to the right.

Step 13.3

Now you should have 2 identical parts! Horizontally place 1 part upright on the 4 rightmost front-facing side studs so it slopes to the right. Then repeat symmetrically to the back.

Step 14

Horizontally place 2 white 1x1 plate with a 1x1 sloped curved brick, 1 in front of the other, on the 4th and 5th columns from the left so they are centered vertically and slope to the right.

Step 15

Place a red 1x1 plate with 2 side studs sticking up on the front left corner so the side studs face the front. Then place a short white 1x1 brick on top of the ppp. Now repeat both parts symmetrically to the back.

Step 16

Place 2 black 1x1 bricks with a clip, 1 in front of the other, on the leftmost column so they are centered vertically and the clips face the left.

Step 17

Vertically place a white 1x4 plate on the leftmost column.

Step 18

Horizontally place a tan 2x3 plate on the 2nd, 3rd, and 4th columns from the left so it is centered vertically.

Step 19

Horizontally place a yellow 1x2 plate with 2x2 side studs sticking up on the front row on the 2nd and 3rd columns from the left so the side studs face the front. Then repeat symmetrically to the back.

Step 20

Vertically place a light grey 2x4 brick on the 2nd and 3rd columns from the left.

Step 21

Horizontally place a dark grey 1x3 plate on the front left corner. Then repeat symmetrically to the back. Now vertically place a red 1x2 brick with a pin on the leftmost column so it is centered vertically and the pin faces the left.

Step 22

Place a dark blue 2x2 tile with 2 studs on the 2nd and 3rd columns from the left so it is centered vertically and the studs are on the right.

Step 23

Vertically place a white 1x2 tile with an upright bar on the 4th column from the left so it is centered vertically and slopes upward to the left.

Group 32 - Helicopter

Step 24

Place a red round part with a black antenna on the 3rd column from the right, on top of the jumper plate, so the antenna faces the top left.

Step 25

Place a tan 1x1 plate with a side stud sticking up on the front left corner so the side stud faces the front. Then repeat symmetrically to the back.

Step 26

Place a dark grey 1x1 tile upright on the bottom left front-facing side stud. Then horizontally place a black 1x2 slope tile upright on the front-facing side studs to the right of the ppp so it slopes down.

Step 27

Place a dark blue 2x2 tile with 2 studs upright on the bottom left front-facing side studs so the studs are on the right. Now place a dark blue 2x2 corner plate upright, above the ppp, so it looks like the braille letter h. Now vertically place a dark grey 1x3 plate upright on the 3 front-facing side studs on the 3rd column from the left.

Step 28

Vertically place a black 1x3 tile upright on the 3 front-facing side studs on the 3rd column from the left. Then vertically place a black 2x3 wedge plate upright to the left of the ppp so the angled side faces the left and the short end faces down.

Step 29

Rotate your build 180 degrees. Then place a dark grey 1x1 tile upright on the bottom right front-facing side stud. Then horizontally place a black 1x2 slope tile upright on the front-facing side studs to the left of the ppp so it slopes down.

Step 30

Place a dark blue 2x2 tile with 2 studs upright on the bottom right front-facing side studs so the studs are on the left. Now place a dark blue 2x2 corner plate upright, above the ppp, so it looks like the braille letter j. Now vertically place a dark grey 1x3 plate upright on the 3 front-facing side studs on the 3rd column from the right.

Step 31

Vertically place a black 1x3 tile upright on the 3 front-facing side studs on the 3rd column from the right. Then vertically place a black 2x3 wedge plate upright to the right of the ppp so the angled side faces the right and the short end faces down.

You will have an extra transparent blue 1x2 tile. Save it for later!

Group 33 - Helicopter

Step 32.1

Let's make a part! Vertically place a black 2x6 plate in front of you. Then horizontally place a transparent blue 1x2 tile from group 32 on the back row. Now horizontally place a transparent red 1x2 tile on the front row. Then vertically place a white 1x4 plate on the left column.

Step 32.2

Vertically place your part on the 2nd and 3rd columns from the right so it is centered vertically.

Step 33

Vertically place a light grey 1x2 rounded plate on the 2nd column from the right so it is centered vertically. Then horizontally place another 1 on the 2 rightmost columns in front of the ppp. Then repeat symmetrically to the back.

Step 34

Place 2 dark grey 1x1 bricks with a side stud, 1 in front of the other, on the rightmost column so they are centered vertically and the side studs face the front and back.

Step 35

Place 2 dark blue 2x2 tiles with 2 studs, 1 in front of the other, on the 2nd and 3rd columns from the right so they are centered vertically and the studs are on the right.

Step 36

Vertically place a light grey 1x4 tile with 2 studs on the 2nd column from the right so it is centered vertically.

Step 37.1

Let's make 2 identical parts! Place a short black 1x1 brick in front of you. Then horizontally place a black 1x1 slope tile with a 1x1 tile on top so it slopes to the left and overhangs to the right.

Step 37.2

Now you should have 2 identical parts! Vertically place 1 part upright on the 2 top right front-facing side stud so it slopes and overhangs 1 row up. Then repeat symmetrically to the back.

Step 38

Vertically place a dark grey 1x2 grill tile on the rightmost column so it is centered vertically.

Step 39

Horizontally place a black 6x10x4 sloped curved helicopter windshield to the left of the rightmost column so it is centered vertically and slopes to the left.

Step 40

Vertically place a neon yellow 2x2 plate with 1x3 angled sides on the 3 rightmost columns so it is centered vertically and the short end faces the left. Then vertically place a dark grey 3x4 sloped curved brick on top of the ppp so it is centered vertically and slopes to the left.

Step 41

Flip your build over so it is horizontal and slopes to the left. Now place a light grey 2x2 plate with 2 small clips underneath on the 5th and 6th columns of anti-studs from the right so the clips face the left. Now attach a wheel to the 2 clips of the ppp. Now put your build away while we make the next part!

Building Instructions (Bag 8, Book 3):

Group 34 - Helicopter

Step 42

Horizontally place a tan 2x4 plate in front of you. Then vertically place a white 1x4 brick on the leftmost column so it is centered vertically.

Step 43

Horizontally place a yellow 1x2 plate with 2x2 side studs sticking up underneath the front row so 1 column is exposed to the right and the side studs face the front. Then repeat symmetrically to the back.

Step 44

Vertically place a white 1x4 brick on the rightmost column so it is centered vertically.

Step 45

Horizontally place a yellow 1x2 plate with 2x2 side studs sticking up underneath the overhang so 1 column is exposed to the left and the side studs face the front. Then repeat symmetrically to the back.

Step 46

Horizontally place a tan 2x4 plate on top so it is centered horizontally and vertically. Now horizontally place a dark grey 1x4 tile in front and behind the ppp.

Step 47

Place 2 black 1x1 bricks with a clip, 1 in front of the other, on the leftmost column so they are centered vertically and the clips face the left.

Step 48

Vertically place a black 1x2 rounded brick with a gap on the rightmost column so it is centered vertically. Then horizontally place a tan 2x4 plate on top so it is centered vertically and horizontally.

Step 49

Vertically place a red 1x2 brick with a pin on the leftmost column so it is centered vertically and the pin faces the left. Then vertically place a blue 1x2 brick with a pinhole on the rightmost column so it is centered vertically.

Step 50

Horizontally place a dark grey 1x4 brick with 4 side studs on the front row of studs so it is centered horizontally and the side studs face the front. Then repeat symmetrically to the back.

Step 51

Place a short tan 2x2 ridged brick on top of the 2 ppp so it is centered horizontally.

Step 52.1

Let's make 2 identical parts! Vertically place a neon yellow 1x4 plate in front of you. Then vertically place 2 dark grey 1x1 plates with a 1x1 slope tile, 1 in front of the other, on top so they slope outwards to the front and back.

Step 52.2

Now you should have 2 identical parts! Vertically place 1 on the leftmost column so it is centered vertically. Then repeat symmetrically to the right.

Step 53

Horizontally place a light grey 2x4 plate with a 2x2 tile with an upright pin on top so it is centered horizontally.

Step 54

Vertically place a light grey 1x2 slope tile on the leftmost column so it is centered vertically and slopes to the left. Then repeat symmetrically to the right.

You will have 2 extra neon yellow 1x4 plates. Save them for later!

Group 35 - Helicopter

Step 55.1

Let's make 2 identical parts! Horizontally place a light grey 2x6 plate in front of you. Then vertically place a tan 2x4 plate on the 2 leftmost columns so it is centered vertically.

Step 55.2

Horizontally place a light grey 1x4 plate underneath the front row so 2 columns is exposed to the right. Then repeat symmetrically to the back.

Step 55.3

Vertically place a neon yellow 1x4 plate from group 34 on the leftmost column.

Step 55.4

Horizontally place 2 dark blue 2x3 sloped curved bricks, 1 in front of the other, on the 2nd, 3rd, and 4th columns from the left so they are centered vertically and slope to the right.

Step 55.5

Vertically place 1 part upright on the top 4 front-facing side studs, above the bottom 2 rows of front-facing side studs so it slopes up. Then repeat symmetrically to the back.

You will have 2 extra dark blue 2x2 triangle tiles. Save them for later!

Group 36 - Helicopter

Step 56

Horizontally place a dark grey 1x4 tile upright on the bottom row of front-facing side studs. Then place a white 2x2 tile upright on the 2 leftmost columns of front-facing side studs above the ppp. Now place a white 2x2 triangle tile upright to the right of the ppp so the right angle faces the bottom left. Then place a dark blue 2x2 triangle tile from group 35 upright on the front-facing side studs to the right of the ppp so the right angle faces the top right.

Step 57

Rotate your build 180 degrees. Horizontally place a dark grey 1x4 tile upright on the bottom row of front-facing side studs. Then place a white 2x2 tile upright on the 2 rightmost columns of front-facing side studs above the ppp. Now place a white 2x2 triangle tile upright to the left of the ppp so the right angle faces the bottom right. Then place a dark blue 2x2 triangle tile from group 35 upright on the front-facing side studs to the left of the ppp so the right angle faces the top left.

Step 58.1

Let's make 2 identical parts! Place a dark grey 2x2 round plate in front of you. Then horizontally place a light grey 1x2 plate on the back row.

Step 58.2

Horizontally place a light grey 1x2 plate with 2x2 anti side-studs on the back row so the anti-studs face the back.

Step 58.3

Horizontally place a light grey 1x2 plate on the back row. Then horizontally place a light grey 1x2 half round brick on the front row so the round side faces the front.

Step 58.4

Place a light grey 2x2 round tile with a stud on top. Then place a light grey 1x1 half-cone brick on top.

Step 58.5

Place your part on its anti side studs so the half cone brick faces the left. Then place a light grey 1x1 cupcake wrapper upright on the right-facing anti-studs so it is centered.

Step 58.6

Now you should have 2 identical parts! Horizontally place 1 part on the 2x2 front-facing side studs so the half cone brick faces the left. Then repeat symmetrically to the back.

Step 59

Let's make a part! Place a black 5x5 cross-shaped rounded plate with a pinhole in front of you. Then horizontally place a black 1x2 plate with a stud and a hinge on the 2 rightmost columns so the hinge is on the right. Then repeat symmetrically to the left.

Step 60

Vertically place a black 1x2 plate with a stud and a hinge on the front 2 rows so the hinge is in the front. Then repeat symmetrically to the back.

Step 61

Place a black 3x3 cross-shaped plate on top so it is centered.

Step 62

Place a tan 1x1 round plate on top so it is centered. Then place a black 3x3 dish on top so it is centered.

Step 63

Vertically attach a black 3x12 helicopter blade to the front-facing hinge so it faces the front. Then repeat symmetrically to the back. Now horizontally attach another 1 to the left-facing hinge so the helicopter blade faces the left. Then repeat symmetrically to the right.

Step 64

Place your part on top of the top-facing pin of the build.

Step 65

Bring back your previous build and attach the pin and clips to the left-facing pin hole and left-facing 1x2 rounded brick with a gap so it slopes to the left. Now put away your build while we make the next part!

Building Instructions (Bag 9, Book 3):

Group 37 - Helicopter

Step 66

Vertically place a tan 2x4 plate in front of you. Then place a white 2x2 plate on top so it is centered vertically.

Step 67

Horizontally place a tan 2x4 plate on top so it is centered vertically and horizontally.

Step 68

Horizontally place a dark grey 1x4 brick on the front row so it is centered horizontally. Then repeat symmetrically to the back.

Step 69

Place a red 1x1 plate with 2 side studs sticking up underneath the front right corner so the side studs face the right. Then repeat symmetrically to the back. Now repeat both parts symmetrically to the left.

Step 70

Horizontally place a black 2x5 stair plate on the 2 leftmost columns so it is centered vertically and the short side overhangs 3 columns to the left. Then repeat symmetrically to the right.

Step 71

Vertically place a tan 2x4 plate on top so it is centered horizontally and vertically.

Step 72

Vertically place a black 1x2 ingot tile on the 3rd column from the right. Then vertically place a white 1x4 tile to the left so it is centered vertically. Then repeat both parts symmetrically to the left.

Step 73

Horizontally place a black 1x2 rounded brick with a gap on the back row so it is centered horizontally.

Group 38 - Helicopter

Step 74

Place a black 2x2 plate on the front 2 rows so it is centered horizontally. Then horizontally place a dark grey 1x2 log brick behind the ppp so it is centered horizontally.

Step 75

Place a black 2x2 plate on the back 2 rows so it is centered horizontally.

Step 76

Horizontally place a blue 1x2 brick with a pinhole on the back row so it is centered horizontally. Then horizontally place a tan 1x2 plate in front of the ppp so it is centered horizontally.

Step 77

Let's make a part! Horizontally place a white 2x8 plate in front of you. Vertically place a tan 1x2 plate on the leftmost column.

Step 78

Place a dark grey 2x2 plate with a pinhole underneath on the leftmost column so the pinhole overhangs to the left. Then place a black 2x2 plate on top of the ppp.

Step 79

Horizontally place a light grey 1x2 brick with 2 side studs on the front row on the 3rd and 4th columns from the left so the side studs face the front. Then repeat symmetrically to the back.

Step 80

Horizontally place a light grey 1x2 brick with 2 side studs on the front right corner so the side studs face the front. Then repeat symmetrically to the back. Now horizontally place a dark grey 2x3 tile to the left of the 2 ppp.

Step 81

Horizontally place a black 2x10 plate on top so it is centered vertically and overhangs 1 column to the right.

Group 39 - Helicopter

Step 82

Vertically place a white 1x2 plate on the rightmost column. Then place a tan 2x2 brick to the left of the ppp.

Step 83

Horizontally place 2 black 1x4 slope bricks, 1 in front of the other, on the 4th, 5th, 6th, and 7th columns from the right so they slope to the left.

Step 84

Horizontally place a black 2x3 tile with a wing printed with a dark grey shield and star on the 3 leftmost columns so the wing faces the left.

Step 85

Vertically place a white 1x2 plate on the 2nd column from the right. Then horizontally place 2 black 1x2 grill slope tiles, 1 in front of the other, to the left of the ppp so they slope to the left.

Step 86

Bring back your previous build and vertically place it in front of you so the 1x2 brick with a pinhole faces the right. Now horizontally place the 3 rightmost columns of your part on the 3 leftmost columns so it is centered vertically and overhangs 6 columns to the left.

Step 87

Horizontally place 2 light grey 1x2 bricks with 2 side studs, 1 in front of the other, on the 2 rightmost columns so they are centered vertically and the side studs face the front and back.

Step 88.1

Let's make a part! Place a light grey cylinder with 3 pin holes and middle part in front of you so the middle part is horizontal. Now insert a black rotor into the top-facing pinhole. Then insert a black 2L pin into the right-facing pinhole. Now insert a white 1L pin with a stud into the left-facing pinhole so the stud faces the left. Then place a transparent 1x1 round tile upright on the left-facing stud.

Step 88.2

Attach the pin of your part to the left-facing pinhole underneath the wing so the rotor faces the front.

Group 40 - Helicopter

Step 89

Let's make a part! Horizontally place a dark grey 1x5 plate in front of you. Then horizontally place a neon yellow 1x4 plate on the 4 leftmost columns.

Step 90

Place a black 4x4 plate underneath the 4 leftmost columns so 3 rows are exposed to the front.

Step 91

Place a transparent green 1x1 round plate on the leftmost column on the 2nd row from the back.

Step 92

Vertically place a blue 1x3 sloped curved brick on the front left corner so it slopes to the front.

Step 93

Horizontally place a dark blue 3x10 angled sloped curved brick on the front 3 rows so the short side overhangs 7 columns to the right and the angled side faces the front.

Step 94

Place a transparent green 1x1 round plate underneath the rightmost column.

Step 95

Horizontally place a black 3x6 wedge plate underneath the overhang, to the left of the rightmost 1x1 round plate so the angled side faces the front and the short side faces the right. There should be no overhang.

Step 96

Rotate your part 180 degrees, then horizontally place it upright on the top 3 front-facing rows of side studs so there is no overhang on the right side and the angled side faces the top left.

Step 97

Place a dark grey 1x1 tile upright on the bottom right front-facing side stud. Then horizontally place a dark grey 1x2 angled sloped curved tile on the bottom front-facing side stud on the 4th column from the right so it slopes and overhangs to the left and the angled side faces the bottom left.

Group 41 - Helicopter

Step 98

Place a white 2x2 corner tile upright on the bottom 2 rows of front-facing side studs that are on the 2 rightmost columns so it looks like the braille letter d. Then place a white 1x1 tile upright to the left of the top row of the ppp. Now horizontally place a white 2x3 angled sloped curved tile upright on the 3 front-facing side studs to the left of the ppp so it slopes and overhangs to the left and the angled side faces the bottom left.

Step 99

Horizontally place a transparent red 1x2 tile upright on the 2 front-facing side studs.

Step 100

Place a transparent green 1x1 round plate on the left column of the front row. Then place a black 2x2 corner plate on the front 2 rows so it looks like the braille letter d.

Step 101

Horizontally place 2 black 1x1 plates with a 1x1 sloped curved brick, 1 in front of the other on the right column of the front 2 rows so they slope and overhang to the right.

Step 102

Horizontally place a black 2x4 sloped curved tile on the front 2 rows so it slopes and overhangs 2 columns to the left.

Step 103

Let's make a part! Horizontally place a dark grey 1x5 plate in front of you. Then horizontally place a neon yellow 1x4 plate on the 4 rightmost columns.

Step 104

Place a black 4x4 plate underneath the 4 rightmost columns so 3 rows are exposed to the front.

Group 42 - Helicopter

Step 105

Place a transparent red 1x1 round plate on the rightmost column on the 2nd row from the back.

Step 106

Vertically place a blue 1x3 sloped curved brick on the front right corner so it slopes to the front.

Step 107

Horizontally place a dark blue 3x10 angled sloped curved brick on the front 3 rows so the short side overhangs 7 columns to the left and the angled side faces the front.

Step 108

Place a transparent red 1x1 round plate underneath the leftmost column.

Step 109

Horizontally place a black 3x6 wedge plate underneath the overhang, to the right of the leftmost 1x1 round plate so the angled side faces the front and the short side faces the left. There should be no overhang.

Step 110

Rotate your main build 180 degrees so the wing faces the right. Now rotate your part 180 degrees, then horizontally place it upright on the top 3 front-facing rows of side studs so there is no overhang on the left side and the angled side faces the top right.

Step 111

Place a dark grey 1x1 tile upright on the bottom left front-facing side stud. Then horizontally place a dark grey 1x2 angled sloped curved tile on the bottom front-facing side stud on the 4th column from the left so it slopes and overhangs to the right and the angled side faces the bottom right.

Group 43 - Helicopter

Step 112

Place a white 2x2 corner tile upright on the bottom 2 rows of front-facing side studs that are on the 2 leftmost columns so it looks like the braille letter f. Then place a white 1x1 tile upright to the right of the top row of the ppp. Now horizontally place a white 2x3 angled sloped curved tile upright on the 3 front-facing side studs to the right of the ppp so it slopes and overhangs to the right and the angled side faces the bottom right.

Step 113

Horizontally place a transparent blue 1x2 tile upright on the 2 front-facing side studs.

Step 114

Place a transparent red 1x1 round plate on the right column of the front row. Then place a black 2x2 corner plate on the front 2 rows so it looks like the braille letter f.

Step 115

Horizontally place 2 black 1x1 plates with a 1x1 sloped curved brick, 1 in front of the other on the left column of the front 2 rows so they slope and overhang to the left.

Step 116

Horizontally place a black 2x4 sloped curved tile on the front 2 rows so it slopes and overhangs 2 columns to the right.

Step 117

Vertically place a white 1x2 plate on the leftmost column so it is centered vertically. Then vertically place a yellow 2x2 plate with 1x3 angled sides to the right of the ppp so it is centered vertically and the studs are on the right.

Group 44 - Helicopter

Step 118

Vertically place a tan 1x2 plate on the leftmost column so it is centered vertically. Then horizontally place a dark grey 3x4 sloped curved brick on the 3 leftmost columns so it is centered vertically and slopes to the right.

Step 119

Flip your build upside down so it is horizontal and the wing faces the right. Now place a light grey 2x2 plate with 2 small clips underneath on the front 2 rows on the 2nd and 3rd columns from the left so the

clips face the right. Now attach a black wheel to the 2 clips of the ppp. Then repeat both parts symmetrically to the back.

Step 120

Flip your build over so it is right side up, horizontal, and the tail faces the right. Now bring back your main build and attach the pin and clips to the left-facing pinhole and 1x2 rounded brick with a gap of your current build.

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