60503 City Coast Guard Helicopter

Set adapted by Alex Charbonneau and tested by Natalie Charbonneau.

This LEGO® City Coast Guard Helicopter toy building set (60503) is packed with authentic details for fans of pretend play and emergency vehicle toys. The impressive red helicopter model features spinnable rotors, sliding side doors, a fold-down rear ramp and a detailed cockpit and fuselage. Kids can lower a crew member with the helicopter winch and the set also includes a rescue capsule that folds open for access to its interior. Just add the pilot, civilian, 2 coast guards and shark for hours of imaginative play. This detailed building set makes a fun gift for 7-year-old boys, girls and kids who love action-packed LEGO play. Add it to other LEGO City sets (sold separately) for even bigger adventures. Kids can ramp up the building fun with this LEGO Coast Guard Helicopter set in the LEGO Builder app, where they can zoom and rotate with 3D instructions, saving and tracking progress as they build. Set contains 551 pieces.

RESCUE HELICOPTER TOY PLAYSET:
- Exciting search and rescue adventures await with the LEGO® City Coast Guard Helicopter (60503) building kit for kids ages 7 and up.

WHAT'S IN THE BOX:
- Includes everything kids need to build a detailed sea rescue helicopter toy, rescue capsule, plus pilot, civilian and 2 coast guard minifigures and a shark figure.

REALISTIC FUNCTIONS FOR IMAGINATIVE PLAY:
- The toy helicopter features sliding doors, spinnable rotors and a working winch, plus a rescue pod that folds open for access to its detailed interior.

LEGO® MINIFIGURE ACCESSORIES:
- Includes toy medic kit, binoculars, walkie-talkie and a life preserver for imaginative play.

FUN GIFTS FOR KIDS:
- This coast guard helicopter toy makes a great gift for 7-year-old boys, girls and kids who love imagination toys for hands-on interactive play.

A FUN WAY TO BUILD:
- The LEGO® Builder app guides kids on an intuitive building adventure where they can save sets, track progress and zoom in and rotate models using 3D instructions while they build.

EXPAND THE LEGO® CITY WORLD:
- Kids can add this search and rescue toy to other building sets (sold separately) in the LEGO City range for even bigger adventures.

DIMENSIONS:
- The red helicopter toy in this 551-piece pretend play set measures over 4 in. (11 cm) high, 14.5 in. (38 cm) long and 10 in. (26 cm) wide.

The box is blue with the LEGO logo in the upper left corner, next to the word CITY. The front of the box shows a yellow life raft floating in a storm-tossed ocean. A shark circles the conical raft, and a woman look up from inside the raft. An orange and white helicopter hovers overhead. A rescue swimmer is being lowered down towards the raft from a winch on the helicopter. One coast guardsman looks out the open door of the helicopter while the pilot focuses on flying.

The top of the box shows a life-sized image of one of the coast guard minifigures. It also shows each of the four minifigures included in the set.

The back of the box shows the helicopter landed on a helipad. The back of the helicopter has hinged down to form a ramp. Two of the coast guardsmen load liferafts and medical supplies while another talks on the radio. They are two inset images on the back of the box. One shows how you can lower a crewman on the winch. Pressing part of the top of the helicopter releases the winch, quickly lowering the swimmer! The other inset image shows the life raft bobbing in the water while the shark swims nearby. The helicopter is approaching in the distance to rescue the concerned passenger!

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 the 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).

For builders with low vision, or a sighted building partner who may want to follow along with the printed visual instructions that come with each kit, PDF versions are always online at LEGO.com: (**https://www.lego.com/en-us/service/building-instructions/60503**) 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 seven bags labeled 1-7, a sticker sheet, and an instruction booklet. Sort the pieces into groups as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split across two 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.

This build is 551 pieces, and 192 building steps.

Bag 1 (6 groups of bricks)
Minifigure Group 1 contains the pieces for the civilian and the shark.

Sub-Build: Life Raft

Group 1 contains the pieces for steps 1-8 of the life raft.
Group 2 contains the pieces for steps 9-14.
Group 3 contains the pieces for steps 15-19, not including the non-printed yellow 2x2 curved slope tiles from step 16.
Group 4 contains the non-printed yellow 2x2 curved slope tiles from step 16.
Group 5 contains the pieces for steps 20-21.

Bag 2 (6 groups of bricks)
Minifigure Group 2 contains the pieces for a Coast Guardsman minifigure

Main Build: Coast Guard Helicopter

Group 6 contains the pieces for steps 1-10 of the helicopter, not including the black 1x1 plates from step 7.
Group 7 contains the black 1x1 plates from step 7
Group 8 contains the pieces for steps 11-16.
Group 9 contains the pieces for steps 17-26.
Group 10 contains the pieces for steps 27-28.

Bag 3 (6 groups of bricks)
Minifigure Group 3 contains the pieces for another Coast Guardsman minifigure

Group 11 contains the pieces for steps 29-38.
Group 12 contains the pieces for steps 39-46.
Group 13 contains the pieces for steps 47-57, not including the dark gray 2x2 triangular tiles from steps 55 and 57.
Group 14 contains the dark gray 2x2 triangular tiles from steps 55 and 57.
Group 15 contains the pieces for steps 58-62.

Bag 4 (8 groups of bricks)

Group 16 contains the pieces for steps 63-69.
Group 17 contains the pieces for steps 70-76.
Group 18 contains the pieces for steps 77-89.
Group 19 contains the pieces for steps 90-102.
Group 20 contains the pieces for steps 103-108, not including the transparent yellow 1x1 round tiles from steps 105 and 106.
Group 21 contains the transparent yellow 1x1 round tiles from steps 105 and 106.
Group 22 contains the pieces for steps 109-112.
Group 23 contains the pieces for steps 113-124

Bag 5 (9 groups of bricks)
Minifigure Group 4 contains the pieces for the rescue swimmer minifigure.

Group 24 contains the pieces for steps 125-134.
Group 25 contains the pieces for steps 135-143.

Group 26 contains the pieces for steps 144-151, not including the transparent green 1x1 round tile from step 151.
Group 27 contains the transparent green 1x1 round tile from step 151.
Group 28 contains the pieces for steps 152-158.
Group 29 contains the pieces for steps 159-160.
Group 30 contains the pieces for steps 161-165.
Group 31 contains the pieces for steps 166-171.

Building Instructions:

Bag 1.

Minifigure Group 1: Civilian and Shark

Assemble the civilian minifigure by placing the torso on the legs, the life jacket on the torso, the head over the life jacket, and the hair on the head. The civilian wears grey pants and overalls over a lime green shirt. She has a bright orange life jacket on. Her hair is brown and she is smiling.

Assemble a shark by clipping the front part of the head onto the rest of the body.

Group 1.

Sub-Build: Life Raft

Step 1

Let’s start building the life raft! This will be shaped like a cone. Place a light gray 6x6 round plate in front of you.

Step 2.1

Place the back two rows of a blue 2x3 plate, vertically and centered horizontally, on the front two rows of the previous piece. Repeat symmetrically on the back side. There will be two rows between these pieces.

Step 2.2

Place a yellow 1x2 plate with two studs sticking up from one side, horizontally with the side studs at the front, under the front row of the front piece from the previous step. Repeat symmetrically on the back side.

Step 3

Find a dark gray A-shaped plate made of two 1x4 plates. Place the front left of this piece, horizontally with the point at the right, in front of the right column of the back 2x3 plate from step 2.1. Place another symmetrically in front of the first.

Step 4

Repeat the previous step symmetrically on the left side of the life raft. There should now be two side studs on the front and back sides, and four rows of four studs that are angled at 45 degrees.

Step 5

Place a yellow 1x2 plate with two studs sticking up from one side, vertically with the side studs on the left, centered vertically, on the leftmost column of the life raft. Repeat symmetrically on the right side.

Step 6

Place a black 1x4 plate with rounded ends under each of the four angled rows.

Step 7

Place a white 4x4 angled corner plate, with the corner at the back right, on the raft so its right column is behind the left side stud on the front side of the raft. The angled side of this piece should be parallel to the front left angled row of four studs. Work your way around the raft, placing three more of the 4x4 angled corner plates.

Step 8.1

Place a transparent light blue 1x2 plate, horizontally, on the front row of the raft. This row only has two studs. Repeat symmetrically on the back side.

Step 8.2

Place a transparent light blue 1x2 plate, vertically, on the leftmost column of the raft. This column only has two studs. Repeat symmetrically on the right side.

Group 2.

Step 9.1

Place a dark gray 1x2 plate with two studs hanging down from one side, vertically with the side studs on the left, on the left piece from the previous step. Repeat symmetrically on the right side.

Step 9.2

Place a dark gray 1x2 plate with two studs hanging down from one side, horizontally with the side studs at the front, on the front row of the raft. This will go on top of a 1x2 plate. Repeat symmetrically on the back side.

Step 10

Let’s add a couple of seats! Place a light brown 2x2 tile with two studs, with the studs at the front, behind the front piece from the previous step. Repeat symmetrically on the back side. There will be two free rows between these pieces.

Step 11

Place a white 2x2 slope brick, with the slope on the left, between the previous two pieces and offset one stud to the left. There will be two columns to the left of this piece. Place another symmetrically to the right of the first.

Step 12

Place a black 1x2 plate with a vertical clip on one long side, vertically with the clip on the left, on the left piece from the previous step. Place another symmetrically to the right of the first.

Step 13.1

The liferaft is cone shaped. We need to attach some supports to achieve that shape. We'll make some attachment points now. Place a red 2x2 plate in front of you.

Step 13.2

Place a black 1x2 plate with a vertical clip on one long side, vertically with the clip on the right, on the right column of the previous piece.

Step 13.3

Place the right column of a black 2x2 curved slope tile, with the tall side on the right, on the previous piece.

Step 13.4

Repeat steps 13.1-13.3 three times.

Step 13.5

Find the four side studs that are on the front sides of the raft. Rotate one of the assemblies we just made so the curved slope tile is at the front and the clip is at the top and place it on these side studs.

Step 13.6

Repeat on the left, back, and right sides of the raft.

Step 14

Next, we'll add some studs to attach the inflatable sides of the raft. Place a dark gray 1x4 brick with four studs on one side, with the side studs facing the front left, on the front left row of four angled studs. Repeat on the other three angled rows, always making the side studs point away from the center of the raft.

Group 3.

Step 15.1

Now we'll make the first inflatable sides. Place a red 1x2 plate with a handlebar on one side, horizontally with the handlebar at the back, in front of you.

Step 15.2

Place the back left corner of a yellow 2x2 curved slope tile with a shield print, with the tall side at the back, on the right stud of the previous piece. The shield on this piece is black and dark gray, with a black trident in the center.

Step 15.3
Place the left stud of a red 1x2 plate with a handlebar on one side, horizontally with the handlebar at the back, under the back right corner of the previous piece.

Step 15.4
Place the back left corner of a yellow 2x2 corner curved slope tile, with the corner at the back, on the right stud of the previous piece. Repeat symmetrically on the left side of the inflatable side.

Step 15.5
Repeat steps 15.1-15.4.

Step 15.4
Place the top row of one side, with the bars on top and the curved slopes at the front, on the front left row of angled side studs. Repeat symmetrically on the back right corner.

Group 4 contains the non-printed yellow 2x2 curved slope tiles for the next step.

Step 16.2
Place a red 1x2 plate with a handlebar on one side, horizontally with the handlebar at the back, in front of you.

Step 16.2
Place the back left corner of a yellow 2x2 curved slope tile from group 4, with the tall side at the back, on the right stud of the previous piece.

Step 16.3
Place the left stud of a red 1x2 plate with a handlebar on one side, horizontally with the handlebar at the back, under the back right corner of the previous piece.

Step 16.4
Place the back left corner of a yellow 2x2 corner curved slope tile, with the corner at the back, on the right stud of the previous piece. Repeat symmetrically on the left side of the inflatable side.

Step 16.5
Repeat steps 16.1-16.4.

Step 16.4
Place the top row of one side, with the bars on top and the curved slopes at the front, on the front right row of angled side studs. Repeat symmetrically on the back left corner.

Step 17.1
Place a white 2x2 round brick, centered vertically and horizontally, on the raft. This attaches to the two 1x2 plates with clips in the center of the raft.

Step 17.2
Place a white 2x2 round tile with a hole on the previous piece.

Step 18.1

Next, we'll add some survival supplies! Clip the handle of a black radio, with the antenna pointing to the back, to the right clip that's under the previous two pieces.

Step 18.2
Let's add a flare! Place a white 1x1 round plate on a red lightsaber handle.

Step 18.2
Place a transparent orange 1x1 dome on the previous piece.

Step 18.3
Clip the handle of the flare, with the dome at the front, into the other free clip in the center of the raft.

Step 19.1

Now, we'll make the top of the raft. Place a black 4x4 round plate in front of you.

Step 19.2
Place a yellow 4x4 dish on the previous piece.

Step 19.3
Place a black 2x2 dish on the previous piece.

Step 19.4
Place a transparent red 1x1 dome on the previous piece.

Step 19.5
Push a light gray 5L axle up through the center anti-stud of the top of the raft. This anti-stud has an axle hole in it.

Step 19.6
Push the axle down through the 2x2 round tile with a hole that's in the center of the raft.

Group 5.

Step 20.1

Next, we'll start adding the sides of the raft. Place a black 1x2 plate with a short bar on one side, horizontally with the bar on the left, in front of you.

Step 20.2
Place a red 1x4 plate, horizontally, on the previous piece so the right two studs overhang.

Step 20.3
Place a transparent light blue 1x1 round tile on the leftmost stud of the previous piece.

Step 20.4
Place a black 1x4 tile, horizontally, to the right of the previous piece.

Step 20.5
Repeat steps 20.1-20.4 three times.

Step 20.6

Rotate one of the assemblies we made so it’s upright, with the short bar at the bottom and the tile at the front. Clip it on the clip that’s on the front row of the raft. Once it’s clipped in, rotate it back so it touches the top of the raft. Repeat with the other four pieces, keeping the tiles facing away from the centered and rotating the assemblies so they touch the top of the raft.

Step 21

Now we’ll add the rest of the sides. Clip a yellow hexagonal flag, with the clips at the bottom, onto the row of bars on each of the four angled sides of the life raft. Then, hinge the flags towards the center so they touch the first four side assemblies. You can hinge these open if you want to place a minifigure inside the raft! This completes the raft. Set it aside for now.

Bag 2.

Minifigure Group 2: Coast Guardsman

Assemble the first coast guardsman minifigure by placing the torso on the legs, the head on the torso, and the helmet on the head. Clip the visor onto the helmet. This minifigure wears a bright orange shirt, grey gloves, and dark blue overalls with high visibility green stripes. He has a serious expression on his face, and a brown beard.

Main Build: Coast Guard Helicopter

Group 6.

Step 1

Now, we’ll build the helicopter! Find a black 8x8 aircraft fuselage bottom. This piece has two 1x2 inverted slopes on two ends, each with two studs between them. Place this, with the inverted slopes on the left and right, in front of you. There are holes in the inverted slopes. They should be on the left and right.

Step 2

Push a black 2L pin into each of the four holes in the previous piece.

Step 3

Place a red 2x2 triple curved slope, with the studs on the left, centered vertically on the right two columns of the helicopter.

Step 4.1

Place a blue 4x4 hollow plate to the left of the previous piece.

Step 4.2
Place a light blue 1x2 tile, vertically and centered vertically, to the left of the previous piece.

Step 5.1
Place the back row of a dark gray 2x10 plate, horizontally, under the front row of the helicopter so the right side is even with the right inverted slopes on the first piece. The pins on the right side of the helicopter will extend 1L past this piece. Repeat symmetrically on the back side.

Step 5.2
Place the left column of a dark gray 1x2 plate with a 1x2 inverted curved slope on one side, with the curved slope on the right, on the right column of each of the previous two pieces.

Step 6.1
Place a dark gray 1x2 plate with a bar on one long side, vertically with the bar on the left, on the leftmost column of each of the 2x10 plates from step 5.1.

Step 6.2
Place a dark orange 1x2 plate, horizontally, to the right of the front piece from the previous step so the back sides are even. Repeat symmetrically on the back side.

Group 7 contains the black pieces from the next step.

Step 7.1
Place a black 1x1 plate from group 7 in front of the left stud of the previous piece.

Step 7.2
Place a yellow 1x1 plate from group 6 to the right of the previous piece.

Step 7.3
Repeat the previous two steps three more times to the right, so you have a row of eight 1x1 plates, alternating black and yellow.

Step 7.4
Repeat steps 7.1-7.3 on the back row of the helicopter.

Step 8.1
Place a black 2x2 tile with two studs, with the studs at the front, on the second and third columns from the right of the helicopter so the front sides are even. Repeat symmetrically on the back side.

Step 8.2
Place a dark gray 1x4 tile with two studs, vertically, to the left of the front piece from the previous step so the front sides are even. Repeat symmetrically on the back side.

Step 9.1
Place a black 2x2 tile with two studs, with the studs at the front, to the left of the front piece from the previous step so the front sides are even. Repeat symmetrically on the back side.

Step 9.2
Place a dark gray 1x4 tile with two studs, vertically, to the left of the front piece from the previous step so the front sides are even. Repeat symmetrically on the back side.

Step 9.3
Place a black 2x2 tile with two studs, with the studs at the front, to the left of the front piece from the previous step so the front sides are even. Repeat symmetrically on the back side.

Step 10
Place a black 1x2 slope tile with a grille pattern, horizontally with the tall side on the left, on the front row of the helicopter so the right sides are even. Repeat symmetrically on the back side.

Group 8.

Step 11.1
Place a dark gray 1x6 plate, horizontally, to the left of each of the previous two pieces.

Step 11.2
Place a dark gray 1x3 tile, horizontally, on each of the previous two pieces so the right sides are even. Place another to the left of each of these two pieces.

Step 12.1
Place a dark gray 1x3 curved slope tile, horizontally with the tall side on the right, to the left of each of the left two pieces from the previous step.

Step 12.2
Place a light gray 1x2 ingot tile, horizontally, behind the front piece from the previous step so the left sides are even. Repeat symmetrically on the back side.

Step 13
Place a white 1x1 brick behind the 1x2 slope tile with a grille pattern that’s on the front row of the helicopter so the right sides are even. Repeat symmetrically on the back side.

Step 14.1
Next, we’ll start on the nose of the helicopter. Set the first part of the helicopter aside for now. Find a white 8x12 curved aircraft fuselage bottom. This piece has one rounded end, and a row of three pin holes on the opposite side. Place it, horizontally with the holes on the left, in front of you.

Step 14.2
Push a black 2L pin into the front and back holes on the left side of the previous piece.

Step 14.3

Push the holes on the right side of a black 1x6 brick with five holes, vertically and centered vertically, on the previous piece.

Step 14.4
Place a red 2x2 triple curved slope, with the studs on the right, centered vertically, on the third and fourth columns from the right end of the nose. The columns to the right of this piece will be taller than this piece.

Step 14.5
Place a blue 1x4 plate, vertically and centered vertically, to the left of the previous piece.

Step 14.6
Skip one column to the right and place a red 2x2 triple curved slope, with the studs on the right, centered vertically on the helicopter. Place another symmetrically to the left of the first. There should be two free columns to the left of this piece.

Step 14.7
Place the rest of the helicopter, horizontally, in front of you, with the side with the bars at the left. There should be two pins near the right end of this assembly. Push these pins into the holes on the left side of the nose assembly. The front row of the nose assembly will be to the right of a 1x1 brick.

Step 15

Place the left stud of a light blue 1x2 tile, horizontally, behind the 1x1 brick that's to the left of the front row of the nose. Repeat symmetrically on the back side.

Step 16

Place a white 1x8 tile, horizontally, to the left of each of the previous two pieces.

Group 9.

Step 17.1

Next, we'll add the helicopter cargo door. Set the rest of the helicopter aside for now. Find a white 6x8x4 aft aircraft fuselage section with a doorway. This piece has a doorway on the tall end, and two pin holes on the opposite side. Place it, horizontally with the row of holes on the right, in front of you.

Step 17.2
Place a light gray 1x1 plate with a vertical clip on one side, with the clip on the left, on the second stud from the front on the second column from the right on the previous piece. Repeat symmetrically on the back side.

Step 17.3
Place a tan 1x1 tall plate on each of the previous two pieces.

Step 17.4
Place the left stud of a white 1x2 plate, horizontally, in front of the front piece from the previous step. Repeat symmetrically on the back side.

Step 17.5

Place the front stud of a white 1x1 plate with a 1x1 slope tile on one side, vertically with the slope at the back, on the left stud of the front piece from the previous step. Repeat symmetrically on the back side.

Step 17.6

Place the rest of the helicopter, horizontally with the curved end on the right, in front of you. There will be two pins near the left side. Push the holes on the right end of the cargo door onto these pins.

Step 18

Place a red 2x2 triple curved slope, with the studs on the left, centered vertically on the second and third columns to the right of the doorway. There will be a vertical 1x2 tile to the right of this piece.

Step 19

Now we'll add a floor to the helicopter. Find the rightmost 1x4 plate that's vertically on the sixth column from the right of the helicopter. Place a light gray 2x16 plate, horizontally, to the left of this plate so the front sides are even. Place another behind the first.

Step 20

Place the left column of a purple 2x4 plate, vertically, on the right columns of the previous two pieces.

Step 21.1

Place a sand green 1x6 plate, vertically and centered vertically, on the left column of the previous piece.

Step 21.2

Place a light green 2x3 plate, horizontally, to the right of the second and third studs from the front of the previous piece. Place another behind the first.

Step 22

Find a black 2x6 plate that has only five rows of two studs, and has low walls on the ends. This piece is specifically designed for vehicles so two minifigures can sit side by side! Place this piece, vertically and centered vertically, to the left of the 1x6 plate that's to the left of the previous two pieces.

Step 23

Place a black 4x6 plate, vertically, to the left of the previous piece.

Step 24.1

Next, we'll add some controls for the pilots. Place a dark gray 1x2 plate with rounded ends, horizontally and centered vertically, on the 2x6 plate with five rows of studs from step 22.

Step 24.2

Push the bar of a light gray minifigure microphone, with the ball of the microphone on top, down into the hollow right stud of the previous piece.

Step 25

Next, we'll add some grille tiles to the cabin of the helicopter. Find the 4x6 plate that's to the left of the previous piece. Skip one column to the left of this piece and place a black 1x2 grille tile, vertically and centered vertically. Skip another column to the left, and place another. Repeat this two more times until you've placed four 1x2 grille tiles.

Step 26

Find the two 1x1 plates with 1x1 slope tiles that are on the column to the right of the doorway. Place a white 1x1 plate with a 1x1 slope tile on one side, vertically with the slope at the back, to the right of the front piece we just found. Repeat symmetrically on the back side.

Group 10.

Step 27.1

Next, we'll build the cargo door. Set the helicopter aside for now. Place a white 4x6 plate with a short bar on two corners, horizontally with the bars on the right, in front of you.

Step 27.2

Place a dark gray 1x2 plate with a bar on one long side, vertically with the bar on the left, centered vertically on the leftmost column of the previous piece.

Step 27.3

Place the left column of a white 2x2 slope tile, with the tall side on the left, on the previous piece.

Step 27.4

Keeping the previous two pieces on the left, flip the door upside down. Place a dark orange 2x2 plate, upside down and centered vertically, on the rightmost two columns of the door.

Step 27.5

Place a black 1x2 plate with a vertical clip on one long side, upside down and vertically with the clip on the left, on the left column of the previous piece.

Step 27.6

Place a black 2x2 inverted curved slope tile, upside down with the tall side on the left, on the previous two pieces.

Step 27.7

Clip a white and orange ring into the clip on the door. This is a life preserver that the coast guardsmen can throw out into the water!

Step 27.8

Now we'll place the door on the helicopter. Place the helicopter, horizontally with the doorway on the left, in front of you. Find the two clips that are just inside the doorway at the bottom. Attach the bar on the right end of the door, which should be upside down and horizontal, into these clips. You'll be able to hinge the door up and down to close and open it.

Step 28

Place a white 2x2 angled corner plate, with the corner at the back right so the studs form a braille letter D, on the columns to the left of the doorway so the front sides are even. These two columns are all the way at the top of the helicopter and all the way to the left. Repeat symmetrically on the back side.

Bag 3.

Minifigure Group 3: Coast Guardswoman

Assemble the first coast guardswoman minifigure by placing the torso on the legs, the life jacket on the torso, the head over the life jacket,and the helmet on the head. This minifigure wears a bright orange jacket, grey gloves, and dark blue pants with high visibility green stripes. Her life jacket is bright orange and she has a big smile on her face.

Group 11.

Step 29.1

Place the helicopter, horizontally with the door on the left, in front of you. Place a dark blue 2x2 plate with two studs on one side, with the side studs at the front, on the third and fourth columns from the right side of the helicopter. These are the first columns with four studs in each. Place another symmetrically behind the first.

Step 29.2

Place a tan 2x4 plate, vertically, to the left of the previous two pieces.

Step 30

Place a light gray 2x2 brick, centered vertically, to the right of the previous piece.

Step 31

Place a black 1x1 brick with a stud on one side, with the side studs at the front, in front of each column of the previous piece. Repeat symmetrically on the back side. You'll place a total of four pieces in this step.

Step 32

Place a dark gray 1x2 brick with a stud on one side, horizontally with the side stud at the front, on the front studs on the rightmost two columns of the helicopter. Place another symmetrically behind the first.

Step 33

Push the bar side of a light gray 1L bar with a clip on one side, with the fingers of the clip on the left and right, into the hollow side stud of each of the previous two pieces.

Step 34.1

Now we'll make some search lights! Place a black 1x1 plate with a short bar on one side and one rounded end, with the bar on the left, in front of you.

Step 34.2
Place a transparent yellow 1x1 round tile on the previous piece.

Step 34.3
Repeat steps 34.1-34.2.

Step 34.4
Rotate one search light so the bar is at the back, and so the round tile is facing right. Clip this into the front clip from step 33. Repeat symmetrically on the back side.

Step 35

Place a red orange 3x4x2 curved slope with mudguards on two side, vertically with the studs on the left, centered vertically on the helicopter so the right sides are even. It will go to the right of two rows of 1x1 bricks with side studs and the mudguards will go over the search lights. This piece has a coast guard logo printed on it. The logo is a shield whose bottom half is blue and top half is white. An orange and white life preserver is centered on the shield.

Step 36

Place the right column of a red orange 2x2 tile on the studs of the previous piece.

Step 37.1

Next, we'll add the instrument panel! Find the two rows of two 1x1 bricks with studs on the sides that are to the left of the search lights. Place a dark gray 1x4 plate, vertically and centered vertically, to the left of these rows.

Step 37.2
Place a light gray 1x2 slope tile with an instrument panel print, vertically with the tall side on the right, centered vertically on the previous piece.

Step 37.3
Place a transparent blue 1x1 slope tile, with the tall side on the right, in front of the previous piece. Repeat symmetrically on the back side.

Step 38

Place a sand green 1x1 plate with two studs sticking up from one side, with the side studs at the front, on the front stud of the column that's to the left of the instrument panel. Repeat symmetrically on the back side. The left column of a 2x4 plate will be between these pieces.

Group 12.

Step 39.1

Place a sand green 1x6 plate, vertically, on the previous two pieces. It will take up all the studs in that column.

Step 39.2
Place three sand green 1x2 jumper plates, vertically, on the previous piece. They'll cover all the studs.

Step 39.3
Place a black 1x1 round tile with a short bar sticking up on the front and back pieces from the previous step.

Step 39.4
Place a gold 1x1 round tile with a compass print between the previous two pieces.

Step 40.1

Next, we'll build the sides of the helicopter's nose. Place a black 2x3 plate, horizontally, in front of you.

Step 40.2
Place two red orange 1x4x2 curved slope tiles, horizontally with the tall side on the left, on the previous piece so the right sides are even.

Step 40.3
Place the right column of a sand green 2x2 plate under the left column of the previous two pieces.

Step 40.4
Place a red orange 1x2 plate, vertically, on the left column of the previous piece.

Step 40.5
Repeat steps 40.1-40.4.

Step 40.6
Find the three columns of side studs that are on the front side of the helicopter, to the left of the search lights. Rotate one nose side assembly so the anti-studs are at the back, and the column of studs is on the left. Place it on the side studs on the front sides so it is to the left of the search light. Repeat symmetrically on the back side.

Step 41

Place a white 1x5 plate, horizontally, on the front row to the left of the front piece from the previous step. Repeat symmetrically on the back side.

Step 42

Place a light gray 1x4 brick, horizontally, behind the front piece from the previous step so the left sides are even. Repeat symmetrically on the back side.

Step 43.1

Place a dark gray 1x2 wall panel, horizontally with the wall at the back, in front of the front piece from the previous step so the left sides are even. Repeat symmetrically on the back side.

Step 43.2
Place a white 1x3 plate with rounded ends, horizontally, to the right of each of the previous two pieces.

Step 44
Place a white 1x1 quarter cylinder, with the tall side at the front, on the rightmost stud on the front piece from the previous step. Repeat symmetrically on the back side.

Step 45.1
Find the 1x2 wall panel from step 43.1 on the front side of the helicopter. Place a black 1x2 brick with two click fingers on one side, horizontally with the click fingers on the left, behind the wall panel we just found. Repeat symmetrically on the back side.

Step 45.2
Place a light gray 1x2 brick with a horizontal clip on one long side, horizontally with the clip at the back, to the right of the front piece from the previous step. Repeat symmetrically on the back side.

Step 46.1
Place a light gray 1x2 plate with a 2x2 of studs sticking up from one side, horizontally with the side studs at the front, on the front piece from the previous step. Repeat symmetrically on the back side.

Step 46.2
Place a dark gray 1x2 plate with rounded ends, horizontally, to the left of each of the previous two pieces.

Group 13.

Step 47.1
Place a white 1x1 tall plate on the left stud of each of the previous two pieces.

Step 47.2
Place a transparent blue 1x2 plate, horizontally, to the right of each of the previous two pieces.

Step 48
Place the left stud of a light gray 1x2 curved slope tile, horizontally with the tall side on the left, on the right stud of each of the previous two pieces.

Step 49
Find the clip on the wall that is in front of the back piece from the previous step. Clip a black pair of minifigure binoculars onto this clip.

Step 50.1
Place a sand green 1x6 plate, vertically, to the left of the two 1x2 curved slope tiles from step 48.

Step 50.2
Place a white 1x4x3 window frame, horizontally and centered vertically, to the left of the previous piece. This piece will go between the front and back walls of the helicopter.

Step 51.1
Place a sand green 2x2 plate, centered vertically, on the previous two pieces.

Step 51.2
Place a black 1x2 plate with two studs sticking up from one long side, vertically with the side studs on the right, in front of the right column of the previous piece. Repeat symmetrically on the back side.

Step 52
Place a dark gray 1x2 plate with a 1x2 inverted curved slope on one side, with the curved slope on the left, to the left of each of the previous two pieces.

Step 53
Place the left column of a tan 2x4 plate, vertically and centered vertically, on the right column of the previous two pieces. This piece will be to the left of the side studs on the two 1x2 plates with two side studs from step 51.2.

Step 54
Place a tan 1x2 plate with a 2x2 of studs hanging down from one side, horizontally with the side studs at the front, in front of the previous piece. Repeat symmetrically on the back side.

Group 14 contains the dark gray 2x2 triangular tiles from steps 55 and 57.

Step 55.1
Next, we'll make a pattern that goes on the front side of the helicopter. Place a dark tan 1x4 plate, horizontally, in front of you.

Step 55.2
Place the back row of a white 2x3 plate, vertically, under the left two studs of the previous piece. Place another to the right of the first.

Step 55.3
Place a red orange 2x2 tile on the front two rows of the assembly so the right sides are even.

Step 55.4
Place a red orange 2x2 triangular tile, with the 90 degree corner at the back right, to the left of the previous piece.

Step 55.5
Place a dark gray 2x2 triangular tile from group 14, with the 90 degree corner at the front left, to the left of the previous piece.

Step 55.6
Find the two rows of four side studs that are on the front side of the helicopter. Rotate the panel we just made so the anti-studs are at the back and so the 1x4 plate is horizontally at the bottom. Place the top two rows on the two rows of side studs.

Step 56

Place the top row of a red orange 2x6 tile with the word GUARD print on it, horizontally, on the 1x4 plate on the side panel assembly so the left sides are even. This print is directional, so you may want to ask a sighted person or use an app to help with orientation.

Step 57.1

Now we'll add a panel to the other side of the helicopter. Place a dark tan 1x4 plate, horizontally, in front of you.

Step 57.2
Place the back row of a white 2x3 plate, vertically, under the left two studs of the previous piece. Place another to the right of the first.

Step 57.3
Place a red orange 2x2 tile on the front two rows of the assembly so the left sides are even.

Step 57.4
Place a red orange 2x2 triangular tile, with the 90 degree corner at the back left, to the right of the previous piece.

Step 57.5
Place a dark gray 2x2 triangular tile from group 14, with the 90 degree corner at the front right, to the right of the previous piece.

Step 57.6
Rotate the helicopter 180 degrees so the nose is on the left. Find the two rows of four side studs that are on the front side of the helicopter. Rotate the panel we just made so the anti-studs are at the back and so the 1x4 plate is horizontally at the bottom. Place the top two rows on the two rows of side studs.

Group 15.

Step 58

Place the top row of a red orange 2x6 tile with the word COAST print on it, horizontally, on the 1x4 plate on the side panel assembly so the left sides are even. This print is directional, so you may want to ask a sighted person or use an app to help with orientation.

Step 59

The left and right sides of the helicopter should be raised, while the middle is flat. Find the rightmost column on top of the left side of the helicopter. This column has six studs and has two inverted curved slopes to the right of it. Place a dark gray 1x8 plate, vertically and centered vertically, on this column

Step 60.1

Place a dark gray 3x3 L-shaped plate, with the corner at the front right, to the left of the previous piece so the front sides are even. Repeat symmetrically on the back side. There will be two studs between the right columns of these pieces.

Step 61.1

Now we'll make a first aid kit. Place a white 1x2 plate with a bar on one long side, vertically with the bar on the left, in front of you.

Step 61.2

Place a white 1x2 tile with a teal medical logo, vertically, on the previous piece.

Step 61.3

Find the clip that is on the front side of the wall that's under the back piece from the previous step. Clip the bar of the first aid kid onto this clip. It should be opposite from a pair of binoculars.

Step 62.1

Find the rightmost two studs on the front row of the center section of the helicopter. These studs are just to the left of the cargo door. Place a white 1x2x2 tall brick, horizontally, on these two studs. Repeat symmetrically on the back side.

Step 62.2

Place a transparent blue 1x2 plate, horizontally, on each of the previous two pieces.

Bag 4.

Group 16.

Step 63

Next, we'll start building up the tail section of the helicopter. Set the rest of the helicopter aside for now. Place a white 6x6 plate in front of you.

Step 64

Place a dark tan 1x3 jumper plate, horizontally, on the third row from the front of the previous piece so the right sides are even. Place another behind the first.

Step 65

Place a red orange 1x2 plate, vertically, on the right studs of the previous two pieces.

Step 66

Place the rightmost column of a blue 2x3 curved slope tile, horizontally with the tall side on the right, on the previous piece.

Step 67.1

Place a white 2x2 inverted slope brick, with the slope on the right, on the rightmost column of the assembly so front sides are even. The slope will overhang. Repeat symmetrically on the back side.

Step 67.2

Place a red orange 1x2 brick, horizontally, to the left of the back row of the front piece from the previous step. Repeat symmetrically on the back side.

Step 68.1

Next, we'll add a hinge assembly. Place a blue 1x2 brick with a hole, horizontally, in front of you.

Step 68.2

Push a light gray 2L pin into the front side of the hole in the previous piece.

Step 68.3

Push the back of a red 2x2 plate with holes under two sides onto the front side of the previous piece.

Step 68.4

Push a light gray 2L pin into the front hole in the previous piece.

Step 68.5

Push the hole of a blue 1x2 brick with a hole, horizontally, onto the front side of the previous piece.

Step 68.6

Place the hinge assembly, vertically and centered vertically, on the second and third columns from the left on the tail section. The 2x3 curved slope tile from step 66 will cause the right side of the 2x2 plate to be tilted up slightly.

Step 69

Place a white 1x4 brick, horizontally, on the front row of the tail section so the left side is even with the left side of the assembly we just placed. Repeat symmetrically on the back side.

Group 17.

Step 70

Place a white 1x1 brick with a stud on one side, with the side stud on the left, to the left of each of the previous two pieces.

Step 71

Push the bar of a dark gray candle into the hollow side stud of each of the previous two pieces. A candle looks like a cylinder, about 2L long, that has a hole in one end and a short bar on the other end.

Step 72

Place a dark gray 2x4 tile with two studs, horizontally, on the front two rows of the tail section so there is one free column to the right of it. Repeat symmetrically on the back side.

Step 73

Now we'll place the tail section assembly on the rest of the helicopter. Place the helicopter, horizontally with the nose on the right, in front of you. Place the tail section, with the candles on the left, on top of the raised portion on the left side of the helicopter so there are two free columns to the left of it.

Step 74

Find the two 2x4 tiles with two studs from step 72. These are on the front two rows of the tail section. Place a tan 1x8 tile, horizontally, to the right of the front one so the back sides are even. Repeat symmetrically on the back side.

Step 75.1

Find the leftmost column of the helicopter. This column only has four studs. Place a black 1x3 inverted slope brick, horizontally with the slope on the left, on the front stud in this column. The left two studs will overhang. Repeat symmetrically on the back side.

Step 75.2

Place a black 1x2 brick with vertical grooves on one side and horizontal grooves on the other, horizontally with the vertical grooves at the back, to the right of the front piece from the previous step. Repeat symmetrically on the back side.

Step 76

Place a dark gray 2x4 tile with two studs, horizontally, to the left of each of the 2x4 tiles with two studs from step 72.

Group 18.

Step 77.1

Next, we'll start making the sliding doors. Set the helicopter aside for now. Place a white 1x8 brick, horizontally, in front of you.

Step 77.2

Place a white 1x4 brick, horizontally and centered horizontally, on the previous piece.

Step 78.1

Place a light brown 1x1 plate with two studs sticking up from one side, with the side studs at the back, to the right of the previous piece.

Step 78.2

Place a light blue 1x1 round plate on the previous piece.

Step 79.1

Place a white 1x1 brick with a stud on one side, with the side stud at the front, on the previous piece.

Step 79.2

Place a black 1x1x2 brick with two studs on one side, with the side studs at the front, to the right of the previous piece.

Step 80.1

Place a red orange 1x2 plate, horizontally, on the previous two pieces.

Step 80.2

Place a red orange 1x2 brick, horizontally, on the previous piece.

Step 81.1

Find a red orange 1x4x2 wall panel with two window frames. Place it in front of you, horizontally with the flat side at the back. Push two transparent clear 2x2 window panes, with the small studs at the top and bottom, from the front into each of the two window frames.

Step 81.2

Place the completed window assembly, horizontally with the flat side at the front, to the left of the 1x2 brick from step 80.2. This will go on a 1x4 brick.

Step 82

Place a red orange 1x6 plate, horizontally, onto the previous piece so the left sides are even. The right side will be even with the right side of the door assembly.

Step 83

Place a tan 1x2x2 tall brick with four studs on one side, horizontally with the side studs at the front, on the left two studs of the door. Place another on the first.

Step 84.1

Place the leftmost column of a red orange 2x6 tile with the word COAST printed on it, horizontally, on the right column of side studs of the bottom piece from the previous step. This print is directional, so you may want to ask a sighted person or use an app to help with orientation.

Step 84.2

Place a red orange 1x2 plate, upright and vertically, to the right of the previous piece.

Step 85

Place a red orange 2x2 right wedge plate, upright with the column of studs on the left and the point at the bottom right, above the 2x6 tile so the left sides are even.

Step 86.1

Place a black 1x3 plate, vertically, in front of you.

Step 86.2

Place the second column from the right of a red orange 2x4 curved slope tile, horizontally with the tall side on the right, on the previous piece so the back sides are even.

Step 86.3

Place a red orange 2x4 left wedge curved slope tile, horizontally with the point on the left, in front of the previous piece.

Step 86.4

Rotate the previous three pieces so the anti-studs are at the back and the point of the previous piece is on the left. Place the rightmost column on the four side studs that are on the left side of the door assembly.

Step 87

Find the two side studs that are on the back side of the door. Place a light gray 1x2 plate with two clips on one side, upright with the clips on the right, on these side studs.

Step 88

Now we'll add the door to the helicopter. Place the rest of the helicopter, with the nose on the right, in front of you. Find the very front row of the helicopter, which has a lower row of tiles behind it. Place the bottom row of bricks on the door into this gap. Slide the door all the way to the right until the clips on the back side of the door attach to a couple of click fingers on the rest of the helicopter.

Step 89

Find the front 1x8 tile that is at the top of the helicopter behind the door. Place a dark gray 2x8 plate with a rail on one side, horizontally with the rail at the front, in front of this 1x8 tile. You should be able to slide the door to the left and right. It will clip into the two click fingers on the right to prevent it from falling open.

Group 19.

Step 90.1

Now we'll make the other door! Set the helicopter aside for now. Place a white 1x8 brick, horizontally, in front of you.

Step 90.2

Place a white 1x4 brick, horizontally and centered horizontally, on the previous piece.

Step 91.1

Place a light brown 1x1 plate with two studs sticking up from one side, with the side studs at the back, to the left of the previous piece.

Step 91.2

Place a light blue 1x1 round plate on the previous piece.

Step 92.1

Place a white 1x1 brick with a stud on one side, with the side stud at the front, on the previous piece.

Step 92.2

Place a black 1x1x2 brick with two studs on one side, with the side studs at the front, to the left of the previous piece.

Step 93.1

Place a red orange 1x2 plate, horizontally, on the previous two pieces.

Step 93.2

Place a red orange 1x2 brick, horizontally, on the previous piece.

Step 94.1

Find a red orange 1x4x2 wall panel with two window frames. Place it in front of you, horizontally with the flat side at the back. Push two transparent clear 2x2 window panes, with the small studs at the top and bottom, from the front into each of the two window frames.

Step 94.2

Place the completed window assembly, horizontally with the flat side at the front, to the right of the 1x2 brick from step 93.2. This will go on a 1x4 brick.

Step 95

Place a red orange 1x6 plate, horizontally, onto the previous piece so the right sides are even. The left side will be even with the left side of the door assembly.

Step 96

Place a tan 1x2x2 tall brick with four studs on one side, horizontally with the side studs at the front, on the right two studs of the door. Place another on the first.

Step 97.1

Place the rightmost column of a red orange 2x6 tile with the word GUARD printed on it, horizontally, on the left column of side studs of the bottom piece from the previous step. This print is directional, so you may want to ask a sighted person or use an app to help with orientation.

Step 97.2

Place a red orange 1x2 plate, upright and vertically, to the left of the previous piece.

Step 98

Place a red orange 2x2 left wedge plate, upright with the column of studs on the right and the point at the bottom left, above the 2x6 tile so the right sides are even.

Step 99.1

Place a black 1x3 plate, vertically, in front of you.

Step 99.2

Place the second column from the left of a red orange 2x4 curved slope tile, horizontally with the tall side on the left, on the previous piece so the back sides are even.

Step 99.3

Place a red orange 2x4 right wedge curved slope tile, horizontally with the point on the right, in front of the previous piece.

Step 99.4

Rotate the previous three pieces so the anti-studs are at the back and the point of the previous piece is on the right. Place the leftmost column on the four side studs that are near the right side of the door assembly.

Step 100

Find the two side studs that are on the back side of the door. Place a light gray 1x2 plate with two clips on one side, upright with the clips on the left, on these side studs.

Step 101

Now we'll add the door to the helicopter. Place the rest of the helicopter, with the nose on the left, in front of you. Find the very front row of the helicopter, which has a lower row of tiles behind it. Place the bottom row of bricks on the door into this gap. Slide the door all the way to the left until the clips on the back side of the door attach to a couple of click fingers on the rest of the helicopter.

Step 102

Find the front 1x8 tile that is at the top of the helicopter behind the door. Place a dark gray 2x8 plate with a rail on one side, horizontally with the rail at the front, in front of this 1x8 tile. You should be able to slide the door to the left and right. It will clip into the two click fingers on the left to prevent it from falling open.

Group 20.

Step 103

Place the right two columns of a black 4x8 plate, vertically and centered vertically, on the left two studs of each of the previous two pieces. There will be two free studs on the front and back rows to the left of this piece. Place another to the right of the first.

Step 104

Place a black 1x3 plate, vertically, to the right of the right previous piece so the front sides are even. Repeat symmetrically on the back side.

Group 21 contains the transparent yellow pieces from the next two steps.

Step 105.1

Flip the helicopter upside down so it’s horizontal with the nose on the right. Now, we’re going to add some pieces that will make the bottom of the helicopter slide if the wheels are off. This might be useful if the helicopter is landing on the water! Some also look like lights. Place a transparent yellow 2x2 round plate with a rounded bottom from group 21, upside down and centered vertically, on the second column of anti-stud from the left side of the helicopter. This piece goes to the right of the cargo door.

Step 105.2

Place another transparent yellow 2x2 round plate with a round bottom from group 21, upside down and centered vertically, on the second column of anti-stud from the right side of the helicopter. There will be only one complete, circular anti-stud to the right of this piece.

Step 106.1

Place a light gray 2x2 round plate with a rounded bottom, upside down and centered vertically, to the left of the previous piece.

Step 106.2

Place a transparent yellow 2x2 round plate with a rounded bottom from group 21, upside down and centered vertically, to the left of the previous piece. This piece will attach to the last two columns of only four anti-studs.

Step 107

Place a light gray 2x2 round plate with a rounded bottom, upside down, in front of the previous piece and offset one column to the left. This piece will attach to the first two columns with more than four anti-studs. Repeat symmetrically on the back side.

Step 108

Find the leftmost 2x2 plate with a rounded bottom that’s just to the right of the cargo door. Place a black 2x4 plate, upside down and vertically, in front of this piece. Repeat symmetrically on the back side.

Group 22.

Step 109.1

Next, we’ll build the tailboom for the helicopter. This holds the tail rotor, which keeps the helicopter from spinning out of control! Set the rest of the helicopter aside for now. Place a black 2x16 plate, horizontally, in front of you.

Step 109.2

Place a dark gray 1x2 plate with rounded ends, horizontally, on the back row of the previous piece so the right sides are even.

Step 110

Place a light gray 1x2 plate with a 1x2 brick with a hole on one side, with the 1x2 brick with a hole at the front, in front of the previous piece.

Step 111.1

Place the back row of a dark gray 3x12 right wedge plate, with the row of twelve studs at the back and the column of three studs on the left, on the front row of the 2x16 plate and to the left of the previous piece.

Step 111.2

Place a dark gray 3x12 left wedge plate symmetrically behind the previous piece.

Step 112.1

Place a red orange 1x2 plate, vertically and centered vertically, to the left of the previous two pieces.

Step 112.2

Place a yellow 1x2 plate with a rail on one side, vertically with the rail on the left, to the left of the previous piece.

Group 23.

Step 113.1

Place a transparent blue 1x2 plate, vertically, on the rightmost column of the tailboom so the back sides are even.

Step 113.2

Place a black 2x4 plate, horizontally, to the left of the previous piece.

Step 114.1

Place the back row of a black 2x6 right wedge plate, with the row of six studs at the back and the column of two studs on the left, to the left of the front row of the previous piece.

Step 114.2

Place a black 2x6 left wedge plate symmetrically behind the previous piece.

Step 115

Place a light brown 1x5 plate, horizontally, to the left of the front row of the previous piece. Place another in front of the first.

Step 116

Place a dark gray 1x6 inverted curved slope, horizontally with the slope on the right, under the front row of the 2x16 plate so the left sides are even. Place another behind the first.

Step 117

Place a bright yellow 2x3 tile with an aircraft tail, horizontally with the tail overhanging to the right, on the right three columns of the tailboom so the back sides are even. The tail of this piece is printed black with the coast guard logo on it.

Step 118.1

Place a bright yellow 1x2 jumper plate, vertically, to the left of the previous piece. Place another to the left of the first.

Step 118.2

Place a bright yellow 2x2 tile to the left of the left previous piece. Place another to the left of the first.

Step 118.3

Place a bright yellow 1x2 jumper plate, vertically, to the left of the previous piece. Place another to the left of the first.

Step 119.1

Place a bright yellow 2x2 tile to the left of the left previous piece. Place another to the left of the first.

Step 119.2

Place a bright yellow 1x2 jumper plate, vertically, to the left of the previous piece.

Step 120.1

Place the leftmost stud of a black 1x6 tile, horizontally, on the previous piece. Its rightmost stud will connect to another jumper plate. Place another to the right of the first.

Step 120.2

Place a black 1x1 tile with a rounded end, with the rounded end on the right, to the right of the right previous piece.

Step 121

Push a light gray 2L pin into the hole on the front side of the tailboom, all the way near the right end.

Step 122

Now we'll add the tailboom to the helicopter. Place the rest of the helicopter, horizontally with the nose on the left, in front of you. Find the two rows of two 2x4 tiles with two studs that are on top of the helicopter, near the right end. Place the left two columns of the tailboom between the right pair of these pieces so that the 3x12 wedge plates on the tailboom are even with the front and back sides of the 2x4 tiles.

Step 123.1

Find the two 4x8 plates that are on top of the helicopter, then find the 1x3 plates that are to the right of these pieces. Place a black 3x12 right wedge plate, with the row of twelve studs at the back and the column of three studs on the left, to the right of the front 1x3 plate.

Step 123.2

Place a black 3x12 left wedge plate symmetrically on the back side of the helicopter.

Step 124

Now we'll add the tail rotor! Push the hole of a black 9L diameter propeller onto the pin on the front side of the tailboom.

Bag 5.

Minifigure group 4: Rescue Swimmer

Assemble the rescue swimmer minifigure by placing the torso on the legs, a black bracket, with the stud hanging down at the front, on the torso, the head over the life jacket,and the helmet on the head. This minifigure wears a bright orange jacket, grey gloves, and dark blue pants with high visibility green stripes. The bracket will allow this minifigure to be winched up and down from the helicopter! He has a thin beard and moustache.

Group 24.

Step 125

The helicopter should be horizontal in front of you, with the tailboom on the right. Place a sand green 1x2 plate with a 2x2 of studs hanging down from one side, vertically with the side studs on the left, centered vertically on the leftmost column of eight studs on the top of the helicopter. There will be two side studs facing left in front of and behind this piece.

Step 126.1

Place a light gray 1x2 ingot tile on the top row of side studs on the left side of the previous piece.

Step 126.2

Place a light gray 1x6 tile, centered vertically, below the previous piece.

Step 127

Place a black 1x1 plate on the second stud from the left on the front wall of the helicopter. Repeat symmetrically on the back wall. These pieces go to the left of a 4x8 plate.

Step 128

Find the two raised studs that are on the 4x8 plate that’s to the right of the previous two pieces. Place a transparent yellow 1x1 round tile in front of these studs. Repeat symmetrically on the back side.

Step 129

Place a red orange 1x3 tile, horizontally, in front of the front previous piece so the left sides are even. Place another to the right of the first. Repeat these two pieces symmetrically on the back side. You'll place a total of four pieces in this step.

Step 130

Place a light gray 1x2 brick with vertical grooves and horizontal grooves on the other, vertically with the vertical grooves on the right, between the two 1x1 round tiles from step 128.

Step 131

Place a tan 2x6 brick, horizontally, to the right of the previous piece.

Step 132

Place a red orange 1x2 plate, vertically, on the leftmost column of the previous piece.

Step 133

Place a dark gray 2x4 plate with a pin sticking up, horizontally, to the right of the previous piece. The center two columns of this piece are also raised.

Step 134.1

Place the right column of a light gray 2x3 plate, horizontally, on the left column of the previous piece.

Step 134.2

Place a white 2x3 tile, horizontally, on the previous piece.

Group 25.

Step 135.1

Place a red orange 1x2 plate, vertically, on the right column of the 2x4 brick with a pin from step 133.

Step 135.2

Place a light gray 1x2 ingot tile, vertically, on the previous piece.

Step 136

Find the two rows of two 1x3 tiles that are on top of the helicopter. Place a red orange 2x2 brick to the right of the front row, so the front sides are even. Repeat symmetrically on the back side.

Step 137.1

Next, we'll build the winch for the helicopter. Set the rest of the helicopter aside for now. Place a black 1x1 brick with a hole, with the hole facing left and right, in front of you.

Step 137.2

Slide a dark gray 8L axle with stop on one side, with the stop on the right, through the hole of the previous piece so it extends 7L to the left.

Step 138.1

Slide a lime green 1L liftarm over the previous piece until it touches the 1x1 brick. This piece just looks like a hollow cylinder.

Step 138.2

Push a small gray 8 tooth gear over the axle. Push it right until it touches the previous piece. Don't push too hard, we want the axle to be able to spin freely in the 1x1 brick with a hole! Push another over the axle until it touches the first.

Step 139.1

Slide a lime green 1L liftarm over the previous piece until it touches the left gear.

Step 139.2

Slide a black 1x1 brick with a hole, with the hole facing left and right, over the axle until it touches the previous piece.

Step 140.1

Push a black bushing over the axle and push it to the right until it touches the previous piece. Don't push too hard!

Step 140.2

Push the right side of a light gray 2L axle connector over the free end of the axle.

Step 141

Push the axle side of a blue 2L axle/pin combo, with the pin on the left, into the free hole of the previous piece.

Step 142

Find a light gray string reel. This looks kind of like a spool for thread. It's a cylinder with a round plate on each end and with a single stud in the middle. There are holes on each end. Push the hole on one end over the pin side of the previous piece.

Step 143

Now we'll add the winch to the helicopter. Place the helicopter, horizontally with the tailboom on the right, in front of you. Find the two 2x2 bricks that are on top of the helicopter. Rotate the winch assembly so it's vertical with the spool at the front. Place it on top of the helicopter to the right of the 2x2 bricks so there is one free stud behind the back brick of the winch assembly.

Group 26.

Step 144

Place a lime green 1x4 plate, vertically and centered vertically, on the left column of the two 2x2 bricks.

Step 145

Place the back stud of a white 1x1 plate with a 1x1 curved slope on one side, vertically with the curved slope at the front, on the front stud of the previous piece. Repeat symmetrically on the back side.

Step 146

Place a white 1x2 plate with two studs hanging down from one side, vertically with the side studs on the right, between the previous two pieces.

Step 147

Place a black 1x2 wall panel, with the wall panel on top, on the side studs of the previous piece.

Step 148.1

Place the front row of a red orange 2x2 plate to the right of the front brick of the winch assembly. Repeat symmetrically on the back side.

Step 148.2

Place a red orange 1x2 plate, vertically, on the left column of each of the previous two pieces.

Step 148.3

Place the left column of a red orange 2x4 curved slope tile, horizontally with the tall side on the left, on each of the previous two pieces.

Step 149.1

Next, we'll make the top of the helicopter smooth and curved! Find a white 10x2x2 right wedge curved slope. This piece is curved on the top and one side. There is one long side and a single stud. Place this piece, horizontally with the flat side at the back and the stud at the back left, over the front 2x4 curved slope from step 148.3 and to the right of the front 1x1 plate with a curved slope from step 145. The curve on the bottom of this piece should match with the curved slope below it.

Step 149.2

Repeat the previous step symmetrically on the back side with a white 10x2x2 left wedge curved slope.

Step 150

Place the back right stud of a white 2x2 corner plate, with the corner at the back left so the studs form a braille letter F, on the stud of the previous piece. Place another symmetrically in front of the first. The rightmost stud of the second piece should attach to the first 10x2x2 wedge curved slope.

Group 27 contains the transparent green 1x1 round tile from the next step.

Step 151.1

Place a transparent red 1x1 round tile on the rightmost stud of the front previous piece.

Step 151.2

Repeat the previous step symmetrically on the back side with the transparent green 1x1 round tile from group 27.

Group 28.

Step 152.1

Next, we'll build a sloped section that will go between the two 10x2x2 wedge curved slopes! Set the helicopter aside for now. Place a sand green 2x4 plate, horizontally, in front of you.

Step 152.2

Place a yellow 1x2 plate with a rail on one side, vertically with the rail on the left, on the leftmost column of the previous piece.

Step 153

Place a light brown 1x5 plate, horizontally, to the right of the front stud of the previous piece. Place another behind the first.

Step 154.1

Place a red orange 2x2 plate on the left two columns of the sloped assembly.

Step 154.2

Place a transparent blue 1x2 plate, vertically, on the right column of the previous piece.

Step 155

Place a light gray 2x4 brick, horizontally, to the right of the previous piece.

Step 156.1

Place a black 1x2 jumper plate, vertically, on the rightmost column of the previous piece.

Step 156.2

Place a black 2x2 tile to the left of the previous piece.

Step 157.1

Place a black 2x4 curved slope tile, horizontally with the tall side on the right, to the left of the previous piece.

Step 157.2

Place a transparent orange 1x1 dome on the 1x2 jumper plate that's on the rightmost column of the assembly.

Step 158

Now we'll add the sloped assembly to the helicopter. Place the helicopter, horizontally with the tailboom on the right, in front of you. Find the sloped 2x2 plate that's between the two 10x2x2 wedge curved slopes on the roof of the helicopter. Place the sloped assembly, horizontally with the curved slope on the left, on this place so the left side is just to the right of a sideways 1x2 wall panel and so there is a 1x6 tile to the right of the dome.

Group 29.

Step 159.1

Next, we'll start building the engines! Stack two dark gray 2x2 round plates and place them in front of you.

Step 159.2

Place a black 1x2 plate with two anti-studs on one side, horizontally with the anti-studs on the left, on the front row of the stack.

Step 159.3

Place a black 1x2 half circle tile, horizontally with the flat side at the front, behind the previous piece.

Step 159.4

Place a dark gray 2x2 ribbed round brick on the engine.

Step 159.5

Place a dark gray 2x2 round plate on the previous piece.

Step 159.6

Place a black 1x2 plate with two anti-studs on one side, horizontally with the anti-studs on the left, on the front row of the previous piece.

Step 159.7

Place a black 1x2 half circle tile, horizontally with the flat side at the front, behind the previous piece.

Step 159.8

Place a dark gray 2x2 round plate on the engine.

Step 159.9

Place a dark gray barrel on the previous piece.

Step 159.10

Rotate the engine so the row of four anti-studs is at the bottom and so the open side of the barrel is on the left. Place the anti-studs in front of the back row of two 1x3 tiles that are on top of the helicopter.

Step 160.1

Now we'll make another engine. Stack two dark gray 2x2 round plates and place them in front of you.

Step 160.2
Place a black 1x2 plate with two anti-studs on one side, horizontally with the anti-studs on the right, on the front row of the stack.

Step 160.3
Place a black 1x2 half circle tile, horizontally with the flat side at the front, behind the previous piece.

Step 160.4
Place a dark gray 2x2 ribbed round brick on the engine.

Step 160.5
Place a dark gray 2x2 round plate on the previous piece.

Step 160.6
Place a black 1x2 plate with two anti-studs on one side, horizontally with the anti-studs on the right, on the front row of the previous piece.

Step 160.7
Place a black 1x2 half circle tile, horizontally with the flat side at the front, behind the previous piece.

Step 160.8
Place a dark gray 2x2 round plate on the engine.

Step 160.9
Place a dark gray barrel on the previous piece.

Step 160.10
Rotate the engine so the row of four anti-studs is at the bottom and so the open side of the barrel is on the left. Place the anti-studs behind the front row of two 1x3 tiles that are on top of the helicopter.

Group 30.

Step 161.1

Next we'll build the cockpit windows for the helicopter. Set the helicopter aside for now. Place a sand green 2x4 plate, vertically, in front of you.

Step 161.2
Place a black 1x8 plate, vertically and centered vertically, on the right column of the previous piece.

Step 161.3
Place a black 4x8 half circle plate, vertically with the flat side on the right, to the left of the previous piece.

Step 161.4
Place a tan 2x3 slope brick, horizontally with the slope on the left, on the third and fourth rows from the front of the cockpit so the right sides are even. Place another behind the first.

Step 161.5
Place a red orange 6x6 curved windscreen, horizontally with the studs on the right, centered vertically on the assembly so the left sides are even.

Step 161.6
Place a transparent 6x8x2 windshield, with the curved side on the left, under the cockpit assembly so the top is even with the left side of the 4x8 half circle plate.

Step 161.7
Place the helicopter, horizontally with the tailboom on the right, in front of you. Place the cockpit assembly, with the windshield on the left, on the helicopter so the leftmost column of the windshield attaches to the leftmost two studs on the helicopter. The windshield should be to the left of the front and back walls.

Step 162.1
Place the right column of a white 2x2 plate on the two studs on top of the cockpit assembly.

Step 162.2
Place a white 1x4 double curved slope tile, vertically and centered vertically, on the right column of the previous piece.

Step 162.3
Place a white 2x2 corner curved slope tile, with the corner at the back right, to the left of the previous piece so the front sides are even. Place another symmetrically behind the first.

Step 163.1
Next, we'll build the landing gear. These are the wheels so the helicopter can land on the ground. Find a light gray 2x2 plate with a wheel mount. This piece has no anti-studs, instead it has two arms with clips that stick down. Clip a wheel between these arms. Repeat to make another wheel.

Step 163.2
Flip the helicopter upside down. Find the two 2x4 plates that are on the right side of the helicopter's body. These are on either side of a 2x2 round plate with a rounded bottom. Place one 2x2 plate with a wheel, upside down with the wheel on the right, on the front two rows of the front 2x4 plate. Place the other symmetrically on the back side.

Step 164.1
Next, we'll start adding the nose gear. Find a light gray pin with a double wheel mount. This piece has a pin on one side, a short angled section, and two pegs that are perpendicular to the pin. There is a stud at the top of the pin. Find the leftmost, circular anti-stud on the helicopter. Push the pin of the piece we found into this hole.

Step 164.2
Place a transparent yellow 1x1 round tile on the stud of the previous piece.

Step 165.1
Assemble two wheels by pushing two light gray wheel hubs into two black tires.

Step 165.2

Push the hole in the center of one wheel onto each of the two pegs on the wheel mount. Now the helicopter has all of its wheels!

Group 31.

Step 166

Next, we'll build the rotor of the helicopter. These are the blades on top that spin around and lift the helicopter into the air. Set the helicopter aside for now. Place a black 5x5 rotor base in front of you. This looks like an X or a plus sign made of four 1x2 plates with a hole underneath. Place it so two 1x2 plates are vertical, and two are horizontal.

Step 167

Place the front two studs of the right column of a black 2x16 rotor blade, vertically with the studs at the front, on the back two vertical studs of the previous piece.

Step 168

Work your way clockwise around the rotor base, placing three more blades, always keeping the pointed end of the rotor pointing away from the center.

Step 169

Place a black 3x3 round tile, centered vertically and horizontally, on the completed rotor assembly.

Step 170

Place the helicopter, horizontally with the tailboom on the right, in front of you. Push the hole on the bottom of the rotor assembly onto the pin on top of the helicopter.

Step 171

Next, we'll add a rope for the winch. Place one stud of a black rope with a stud on each end onto the stud on the spool. Spin the spool to roll up the winch! If you push down on the 1x1 dome that's on the roof of the helicopter, just to the left of the tailboom, then the winch will be free to extend! You can clip the stud on the front of the rescue swimmer to raise and lower him!

This completes the Coast Guard Helicopter.

Thank you so much for building this set!

There are two pages of ads after the instructions end. The first page has pictures of three sets: set number 60505 Airplane, Service Truck & Hovercraft Remix, set number 60504 Coast Guard Rescue Boat & Helicopter, and set number 60503 Coast Guard Helicopter.

The second page has pictures of four more sets: set number 60502 Airport with Airplane, set number 60489 Jet vs Car, set number 60499 Airport Fire Truck, and set number 60487 Yellow Taxi.

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