

10361 Holiday Express Train

Set adapted by Alex Charbonneau and tested by Natalie Charbonneau.

The LEGO® Icons Holiday Express Train (10361) model train set has arrived. Craft a locomotive with a bobbing smokestack, coal tender, flatcar carrying a bell-ringing polar bear and an end car with a furnished interior. This adult building kit also includes 4 minifigures and a passenger platform with a bench and lamppost, plus miniature toys including, for the first time in a retail LEGO set, a 3D-printed train piece. Build the track around your holiday tree and add the LEGO Powered Up kit (sold separately) to motorize the locomotive.

Climb aboard for an immersive building journey or gather friends and family for a fun Build Together experience in the LEGO Builder app. Here, you can zoom in and rotate models in 3D, track and save your progress and explore new LEGO models. This set also includes 2 sets of printed instructions for building together.

Discover a space for relaxation with the inspiring range of LEGO creative building projects designed for adults. Set contains 956 pieces.

Model train set for adults:

- Take time out or join friends and family for a festive building project with the LEGO® Icons Holiday Express Train building set for adults.

What's in the box:

- This LEGO® train set includes a locomotive, coal tender, flatcar, end car, platform, a 16-piece circular track, miniature toys including a 3D-printed train piece and 4 minifigures.

Features and functions:

- Push the train to activate the bobbing smokestack and bell-ringing polar bear.

Power Up ready playset:

- Add the LEGO® Powered Up kit (sold separately) to motorize the locomotive.

Build Together with friends and family:

- Collaborate and share the fun of constructing this LEGO®.

Christmas train set using the Build Together feature on the LEGO Builder app.

A LEGO® Christmas gift for adults:

- Celebrate the holidays or any special occasion with a gift designed for adult fans of LEGO building sets, model trains and fantasy decor.

LEGO® Icons building kits for adults:

- Discover a space for fun and relaxation with the inspiring range of LEGO building sets (sold separately) designed specifically for adults.

Dimensions:

- The 4-car Holiday Express Train in this 956-piece building set measures over 5 in. (13 cm) high, 19.5 in. (49 cm) long and 2.5 in. (7 cm) wide.

The box is black with a white band around the bottom. The white band is made up of various white LEGO elements, including bricks, plates and slopes. The front of the box shows a blue and gold steam train traveling along a winding track. The train has three cars behind the engine: one carrying toys with a wreath on the side, a flat car carrying a large polar bear and a wrapped present, and finally a passenger carriage shaped like a present with a bow on top. An engineer leans out of the cab of the train holding a wrench, and a conductor stands on the back of the carriage. Two minifigures play with toys on a small platform near the track.

The top of the box shows a life sized image of the LEGO toy train element. It also shows the four minifigures and some of the small toy builds included in the set.

The back of the box shows the train traveling around a small loop of track. The engineer and conductor minifigures are not visible. The other two minifigures each have mugs which might hold hot drinks, like hot cocoa! There are three small inset images. The first shows an overhead view of the train traveling around a loop of tracks. The second shows a small LEGO train element, which is a 3d printed piece. When the wheels on this piece spin, the smoke stack moves up and down! The final inset image shows the pieces required to motorize the train. They are set number 10361 (this set), 88009, 88011, and 88010.

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).

A note on LEGO Technic™ part names. These parts are somewhat different from regular LEGO bricks. I'll include 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.

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, ells 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 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/10361>) 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 six bags labeled 1-6, enough LEGO track to create a circle, a small box with a single part, 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 956 pieces, and 271 building steps.

Bag 1 (11 groups of bricks)

Minifigure Group 1 contains the pieces for the female minifigure from page 7 of the first instruction booklet.

Minifigure Group 2 contains the pieces for the male minifigure from page 7 of the first instruction booklet.

Sub-Build: Train Platform

Group 1 contains the pieces for steps 1-2 of the train platform, including a light gray 2x4 plate from step 3.

Group 2 contains the pieces for steps 3-8.

Group 3 contains the pieces for steps 9-14.

Sub-Build: Model Village

Group 4 contains the pieces for steps 1-7 of the model village.

Group 5 contains the pieces for steps 8-14.

Sub-Build: Model Ship

Group 6 contains the pieces for steps 1-4 of the model ship.

Sub-Build: Model Helicopter

Group 7 contains the pieces for steps 1-4 of the model helicopter.

Sub-Build: Model Excavator

Group 8 contains the pieces for steps 1-6 of the model excavator, including a yellow 1x1 plate and a yellow 1x1 slope tile from step 4.

Group 9 contains the pieces for steps 4-6.

Sub-Build: Model Train

Group 1 contains the pieces for steps 1-2 of the model train.

Bag 2 (7 groups of bricks)

Minifigure Group 3 contains the pieces for the engineer minifigure.

Main Build: Locomotive

Group 11 contains the pieces for steps 1-4 of the locomotive, including a dark gray 2x8 plate with holes between the studs from step 6.

Group 12 contains the pieces for steps 5-12.

Group 13 contains the pieces for steps 13-20, including two light blue 2x6 plates from step 21.

Group 14 contains the pieces for steps 21-22, including four light gray 1x2x2 tall bricks with four studs on one side from step 23.

Group 15 contains the pieces for steps 23-32.

Group 16 contains the pieces for steps 33-42.

Bag 3 (9 groups of bricks)

Group 17 contains the pieces for steps 43-51.

Group 18 contains the pieces for steps 52-61.

Group 19 contains the pieces for steps 62-66.

Group 20 contains the pieces for steps 67-71.

Group 21 contains the pieces for steps 72-77.

Group 22 contains the pieces for steps 78-85.

Group 23 contains the pieces for steps 86-87.

Group 24 contains the pieces for steps 88-96.

Group 25 contains the pieces for step 97.

Bag 4 (3 groups of bricks)

Main Build: Tender

Group 26 contains the pieces for steps 98-106

Group 27 contains the pieces for steps 107-112.
Group 28 contains the pieces for steps 113-119.

Bag 5 (9 groups of bricks)
Main Build: Flat Car

Group 29 contains the pieces for steps 120-122, including two black 2x4 plates from step 124.
Group 30 contains the pieces for steps 123-127.
Group 31 contains the pieces for steps 128-136, including a black 2x2 plate with two holes under it from step 137.
Group 32 contains the pieces for steps 137-141.
Group 33 contains the pieces for steps 142-149, including two tan 1x3 plates from steps 151 and 152.
Group 34 contains the pieces for steps 150-153.
Group 35 contains the pieces for steps 154-161.
Group 36 contains the pieces for steps 162-169.
Group 37 contains the pieces for steps 170-176.

Bag 6 (6 groups of bricks)
Minifigure Group 4 contains the pieces for the conductor minifigure.

Main Build: Caboose
Group 38 contains the pieces for steps 177-184.
Group 39 contains the pieces for steps 185-191, including two red 1x2x3 window frames from step 192.
Group 40 contains the pieces for steps 192-198.
Group 41 contains the pieces for steps 199-209.

Main Build: Track
Group 42 contains the track pieces

Building Instructions:

The print instructions begin with several pages of preamble about the set.

The first page includes the following:

ALL ABOOOAAARD!

You are hereby invited to a winter adventure aboard the LEGO® Holiday Express Train! Departing from the LEGO North Pole, this classic frosty-blue steam locomotive and train brings important passengers and precious parcels to any destination you can imagine. The engineer guarantees the train will reach every stop on time, while the conductor is thrilled to assist travelers - and maybe serve a hot beverage.

The winter holidays always feel a little warmer when you're with someone you love. That's why we've made it easy for you to share the building experience. Like the traveling minifigure companions here, you can invite your favorite holiday traveler along for the ride, grab a booklet each and embark on a creative journey together.

- The LEGO Icons Design Team

The second page includes the following:

HIGHLIGHTS TO SPOT

- The miniature blue train is the first 3D-printed piece included in a LEGO retail set, while still maintaining the high standards of quality and safety of the LEGO System in Play.

Have you traveled with us before? Perhaps you've enjoyed fun vacations with the 10254 Winter Holiday Train (in 2016).

- The train is not all that moves on the tracks - watch the smokestack and the polar bear when the train puffs along the trails!

Bag 1.

Minifigure Group: Female minifigure

Assemble the female minifigure by placing the torso on the legs, the head on the torso, and the hair on the head. This minifigure has tan pants, a green coat with lots of pockets, and dark brown hair. She has a large grin on her face!

Minifigure Group: Male minifigure

Assemble the male minifigure by placing the torso on the legs, the head on the torso, and the hair on the head. This minifigure has dark tan pants, a burgundy sweater with orange and tan stripes, and dark blonde, spikey hair. He has a 5 o'clock shadow and a large grin.

Sub-Build: Train Platform

Group 1.

Step 1.1

We'll start by building the train platform. Place a tan 6x8 plate, horizontally, in front of you.

Step 1.2

Place a light gray 1x2 brick with a log pattern, horizontally, on the back row of the previous piece so the right sides are even. Place another symmetrically on the front row.

Step 2.1

Place the back row of a dark gray 2x4 slope brick, vertically with the slope at the front, to the left of the front piece from the previous step.

Step 2.2

Place a light gray 1x2 brick with a log pattern, horizontally, to the left of the back row of the previous piece. Repeat symmetrically on the back row of the 6x8 plate.

You will have a light gray 2x4 plate leftover when you finish this group.

Group 2.

Step 3.1

Place the right column of the leftover light gray 2x4 plate, vertically, between the left studs of the previous two pieces. There should be one free column to the left of this piece.

Step 3.2

Place a white 2x4 plate, vertically, on the previous piece.

Step 3.3

Place a light gray 1x4 plate, vertically, on the right column of the previous piece.

Step 4

Place a white 6x6 plate on top of the platform so the right sides are even. It should cover all four 1x2 bricks with log patterns.

Step 5.1

Now we'll make a bench for the platform. Stack two brown 1x2 plates and place the stack, horizontally, on the second row from the back of the 6x6 plate so there is one free column to the left of the stack.

Step 5.2

Place a light gray 1x2 plate with two vertical clips on one side, horizontally with the clips at the back, on the stack from the previous step.

Step 6

Place the back stud of a brown 1x2 brick with a log pattern, vertically, to the left of the previous piece. Repeat symmetrically to the right of the 1x2 plate with two clips.

Step 7

Place a brown 1x4 tile, horizontally, on the front studs of the previous two pieces. Place another behind the first.

Step 8.1

Clip a light gray 1x2 plate with a bar on one long side, horizontally with the bar at the front, into the clips on the back side of the bench.

Step 8.2

Place a brown 1x4 tile, horizontally and centered horizontally, on the previous piece. Rotate the previous two pieces 90 degrees towards you so the back of the bench is upright.

Group 3.

Step 9.1

Now we'll make a lamppost! Set the rest of the platform aside for now. Place a white 2x2 round tile with a single stud in front of you.

Step 9.2

Place a black 2x2 dish, with the stud on top, on the previous piece.

Step 10.1

Place a black 1x1 cone on the previous piece.

Step 10.2

Push a black 6L bar with a stop ring near one side, with the stop ring at the top, into the hollow stud of the previous piece. Push it down far enough that it's secure, but not so far that it sticks below the bottom of the first 2x2 round tile

Step 11

Push the hollow stud of a black 1x1 cone, upside down, onto the top part of the previous piece. Push this piece down as far as it will go.

Step 12.1

The lamppost will be decorated with poinsettias! These plants with red flowers are common around the holidays! Place a black 1x1 brick with studs on four sides in front of you. This will be the base of the actual lamp.

Step 12.2

Place a gold 1x1 round plate on the left side stud of the previous piece. Repeat symmetrically on the right side.

Step 12.3

Place a green 1x1 round plate with three leaves, with the leaves pointing up, on the front side stud on the 1x1 brick with four studs. Repeat symmetrically on the back side.

Step 12.4

Push the short bar of a red flower with a bar into the hollow stud of each of the previous two pieces.

Step 12.5

Rotate the assembly we just made 180 degrees so the free stud of the 1x1 brick with four studs is on the bottom. Place its stud on the anti-stud of the 1x1 cone on top of the lamppost.

Step 13.1

Next, we'll add the bulb to the lamp! Place a black 2x2 round plate with a rounded bottom in front of you.

Step 13.2

Place a transparent yellow 1x1 round brick, centered, on the previous piece. The bottom of this piece will go between the four studs of the previous piece.

Step 13.3

Place a transparent orange 1x1 round tile on the previous piece.

Step 13.4

Place a clear 2x2x2 dome top on top of the assembly we just made.

Step 13.5

Rotate the assembly we just made 180 degrees so the stud of the previous piece is at the bottom. Place this stud on the anti-stud of the 1x1 brick with four side studs that's on top of the lamppost.

Step 14

Now we'll add the lamppost to the platform. Set the platform in front of you, with the 2x4 slope at the front. Place the lamppost on the back right corner of the platform so it's to the right of the bench. This completes the bench!

Sub-Build: Model Village

Group 4.

Step 1.1

Next we'll build a small model village! Place a light blue 2x6 plate, horizontally, in front of you.

Step 1.2

Place a light blue 1x4 brick, vertically, on the rightmost column of the previous piece so the back sides are even.

Step 2

Place the rightmost column of a light blue 2x6 plate under the previous piece and in front of the first 2x6 plate.

Step 3.1

Place a light blue 1x4 brick, horizontally, on the back row of the village to the left of a 1x4 brick.

Step 3.2

Place a light blue 1x2 brick with two studs on one side, horizontally with the side studs at the front, on the front row to the left of a 1x4 brick.

Step 3.3

Place a light blue 1x2 brick, horizontally, to the left of the previous piece.

Step 4

Place a light blue 1x4 brick, vertically, on the leftmost column of the village.

Step 5

Place two light blue 1x3 tiles, horizontally, on the front row of the village so they completely cover the studs. Repeat symmetrically on the back side.

Step 6.1

Now we'll add some red bows to the bottom of the village so it looks like a nicely wrapped present! Place a red 1x2 plate with two studs on one side, vertically with the side studs on the left, centered vertically on the leftmost column of the village. Repeat symmetrically on the right side.

Step 6.2

Place the top stud of a red 1x2 right wedge tile, upright with the longest side at the front and the point at the bottom, on the front stud on the left side of the left piece from the previous step. Repeat symmetrically on the back stud with a red 1x2 left wedge tile.

Step 6.3

Repeat the previous step symmetrically on the right side of the village.

Step 7.1

Place a white 1x2 tile with an address label print, horizontally, on the side studs on the front side of the village. Someone must be sending the model village to a friend as a gift!

Step 7.2

Place a dark tan 4x6 plate, horizontally, on top of the village.

Group 5.

Step 8.1

Now we'll start adding the bases of the buildings for the village! Place a light gray 1x4 plate, horizontally, on the back row of the previous piece so the right sides are even.

Step 8.2

Place a light gray 1x1 quarter circle tile, with the flat sides on the right and back, to the left of the previous piece.

Step 8.3

Place a light gray 1x2 tile, horizontally and centered horizontally, in front of the 1x4 plate from step 8.1. There should be one free stud to the right of this piece.

Step 8.4

Place a light gray 1x1 quarter circle tile, with the flat sides on the right and back, to the left of the previous piece.

Step 9.1

Place a light gray 1x2 plate, horizontally, on the front row of the village so the left sides are even.

Step 9.2

Place a light gray 1x2 tile, horizontally, to the right of the previous piece.

Step 9.3

Place a light gray 1x1 quarter circle tile, with the flat sides on the left and front, to the right of the previous piece.

Step 10.1

Next, we'll add some roads! These are dark gray. Find a dark gray 2x2 rounded corner tile. This tile is cut out so it looks like a macaroni noodle, I'll call it a "2x2 macaroni tile" from now on. Place this piece, with the flat sides on the left and front, so it wraps around the previous piece. The front right corner of this piece should be even with the front right corner of the village.

Step 10.2

Place a black 1x1 cone to the left of the back stud of the previous piece.

Step 10.3

Place a black 3x3 macaroni tile, with the flat sides at the right and back, to the left of the previous piece and so the back side is even with the back of the village.

Step 11.1

Now we'll start adding some buildings and trees! Find a dark green 1x1 round plate with ice cream scoops on it. This looks like a stack of small balls. We'll use it like a tree! Place this piece on the back right corner of the village.

Step 11.2

Place a light brown 1x1 brick on each of the three studs to the left of the previous piece. These are the walls of a large building!

Step 12.1

Place an orange 1x1 double slope tile, with the flat sides on the left and right, on the left and right pieces from the previous step. These are roofs!

Step 12.2

Place a light brown 1x1 brick between the previous two pieces.

Step 12.3

Place an orange 1x1 double slope, with the flat sides at the front and back, on the previous piece.

Step 13.1

Now we'll build a couple of large trees! Place a brown 1x1 round tile with a bar sticking up in front of you.

Step 13.2

Push the hole on the bottom of a dark green carrot, with the hole at the bottom, onto the short bar of the previous piece.

Step 13.3

Repeat steps 13.1-13.2 to make another tree!

Step 13.4

Place one tree in front of the tree on the back right corner of the village. Place the other tree on the second stud from the front on the leftmost column of the village.

Step 13.5

Place a dark green 1x1 round plate with ice cream scoops in front of the previous tree.

Step 14.1

Now we'll add one more building! Place a light brown 1x1 brick to the right of the previous piece.

Step 14.2

Place an orange 1x1 double slope, with the flat sides at the front and back, on the previous piece. This completes the model village!

Sub-Build: Model Ship

Group 6.

Step 1.1

Next we'll build a model ship! Set the model village aside. Place a brown 1x1 plate with a stud sticking up from one side, with the side stud on the left, in front of you.

Step 1.2

Place the left stud of a light blue 1x2 plate, horizontally, on the previous piece.

Step 1.3

Place a brown 1x1 plate with a stud sticking up from one side, with the side stud on the right, under the right stud of the previous piece.

Step 2

Place a tan 1x1 tile with a clip on top, with the fingers of the clip at the left and right, on each of the two studs of the 1x2 plate.

Step 3

Place a brown 1x1 slope tile, with the thick side on top, on both the left and right side studs of the boat.

Step 4

Let's add some sails to the boat! Clip the short bar of a white 1x1 round plate with a bar on one side, with the bar at the bottom and the stud on the right, into each of the clips on top of the boat. This boat is brown, with a light blue band. These colors are similar to LEGO set number 10210, the Imperial Flagship!

Sub-Build: Model Helicopter

Group 7.

Step 1.1

Now we'll build a small model helicopter! Set the model ship aside for now. Place an orange 1x2 jumper plate, horizontally, in front of you.

Step 1.2

Place a dark blue 1x1 plate with a stud sticking up from one side, with the side stud on the left, on the previous piece.

Step 2.1

We need to make the tail of the helicopter now. Place a light gray 1x2 plate with a click hinge on one side, horizontally with the click hinge on the right, in front of you.

Step 2.2

Place an orange 1x1 plate under the right stud of the previous piece.

Step 2.3

Place the left stud of the tail assembly on the dark blue 1x1 plate with a stud sticking up from step 1.2 so the click finger overhangs to the right.

Step 3.1

Place an orange 1x1 tile on the rightmost stud on the helicopter.

Step 3.2

Place a dark blue 1x1 round tile with a short bar on top to the left of the previous piece.

Step 4.1

Push the hollow stud of a clear 2x2 dish, with the stud on the bottom, onto the short bar of the previous piece to make the helicopter's rotors.

Step 4.2

We'll make the cockpit by placing a clear 1x1 slope tile, with the tall side at the bottom, on the side stud on the left side of the helicopter. This helicopter is colored similarly to LEGO set number 60437, the Jungle Explorer Helicopter!

Sub-Build: Model Excavator

Group 8.

Step 1.1

Now we'll build a model excavator! Set the model helicopter aside for now. We'll start with the tracks. Place a black 2L axle, vertically, in front of you.

Step 1.2

Push the leftmost axle hole of a black 3L thin liftarm onto the back side of the previous piece. Push it until the axle is flush with the back side of the liftarm.

Step 2.1

Find a black perpendicular axle and pin connector. This looks like a 2L liftarm where one hole is an axle hole which is perpendicular to the pin hole. Rotate this piece so the pin hole is on the right facing up and down, and push the axle hole onto the axle. Push it all the way back until it touches the 3L liftarm.

Step 2.2

Push the leftmost axle hole of a black 3L thin liftarm onto the front side of the axle. Push it all the way until it touches the previous piece.

Step 3

Push a red 1L pin with a stud on one side, with the stud on top, into the hole on top of the excavator.

You will have a yellow 1x1 plate and a yellow 1x1 slope tile leftover when you finish this group.

Group 9

Step 4.1

Now we'll build the cab of the excavator! Place a yellow 2x2 plate in front of you.

Step 4.2

Place a black 1x1 tile with a clip on top, with the fingers of the clip on the left and right, on the back right corner of the previous piece.

Step 4.3

Place the leftover yellow 1x1 slope tile, with the tall side on the left, in front of the previous piece.

Step 4.4

Place the leftover yellow 1x1 plate to the left of the previous piece.

Step 4.5

Place a clear 1x1 plate on the previous piece. The last two pieces are the actual cab of the excavator!

Step 4.6

Let's give the cab a roof. Place a black 1x1 tile on the previous piece.

Step 4.7

Place the center anti-stud of the cab assembly on the stud on top of the tracks of the excavator. The cab should be able to rotate around.

Step 5

Now we'll add the arm of the excavator! Clip the bottom bar of a black 1x1 plate with a bar on two opposite ends, upright with one bar on the top and another on the bottom and the stud on the right, onto the clip on the back right of the cab.

Step 6.1

Now we'll add the bucket! Clip the clip of a yellow 1x2 plate with a clip on one short side, upside down and horizontally with the clip on the right, onto the top bar of the previous piece.

Step 6.2

Place a dark gray 1x1 slope tile, upside down with the tall side on the left, on the leftmost stud of the previous piece. There are quite a few LEGO excavators, which are all colored about the same.

Sub-Build: Model Train

Group 10.

Step 1.1

Now let's build the model train! Set the excavator aside for now. The main part of the model train is blue and is 3d printed! That's a first for a major LEGO set! Place the body of the train, horizontally with the square cab on the right and the cylindrical funnel on the left, in front of you.

Step 1.2

There is a short bar inside the walls of the cabin. Clip a gold 1x1 round plate with a clip on the bottom onto this bar.

Step 1.3

There is another bar inside the hole on the left side of the train. Clip another 1x1 round plate with a clip on the bottom, with the stud on the left, onto this bar.

Step 2.1

Place the center anti-stud of a red 2x2 double slope tile, with the flat sides on the left and right, onto the stud sticking up from the cab.

Step 2.2

Push the short bar on a white feather, with the feather flowing to the right, into the hole on top of the train's funnel. Now when the wheels of the train roll, the feather should go up and down like puffs of smoke! This completes the model train.

Bag 2

Minifigure Group 3: Engineer

Assemble the engineer minifigure by placing the torso on the legs, the scarf over the torso, the head on the torso, and the hat on the head. The engineer wears a light blue shirt, dark blue overalls and pants, a red scarf, and a dark brown hat. He has a smile and a thick red beard.

Main Build: Locomotive

Group 11.

Step 1.1

Now we'll start building the train itself, starting with the locomotive. Place a black 3x3 plate in front of you.

Step 1.2

Place a brown 1x2 plate with two studs sticking up from one long side, horizontally with the side studs at the back, on the back row of the previous piece so the right sides are even.

Step 2

Place a dark tan 1x2 tile, horizontally, in front of the previous piece.

Step 3.1

Place a dark gray 2x8 plate with holes between the studs, horizontally, in front of the previous piece so the right sides are even. The front and left sides will overhang the 3x3 plate.

Step 3.2

Place a black 3x3 plate under the front row of the previous piece and in front of the first 3x3 plate so the right sides are even.

Step 4.1

Place a dark tan 1x2 tile, horizontally, on the previous piece and in front of the 2x8 plate so the right sides are even.

Step 4.2

Place a brown 1x2 plate with two studs sticking up from one long side, horizontally with the side studs at the front, in front of the previous piece.

You will have a dark gray 2x8 plate with holes between the studs left over when you finish this group.

Group 12.

Step 5.1

Find the dark gray 2x8 plate with holes between the studs that is centered horizontally on the locomotive. Place a black 2x8 plate with holes between the studs, vertically and centered vertically, under this plate and to the left of the two 3x3 plates.

Step 5.2

Place a dark tan 2x6 plate, horizontally, under the horizontal 2x8 plate with holes and to the left of the vertical one we just placed.

Step 6

Place the leftover dark gray 2x8 plate with holes between the studs, horizontally, to the left of the horizontal 2x8 plate already on the locomotive. The left five columns should overhang.

Step 7.1

Place the back row of a light gray 2x2 plate with two studs on one side, with the side studs at the front, under the front row of the previous piece and to the left of a 2x6 plate. There should be three free columns to the left of this piece. Repeat symmetrically on the back side.

Step 7.2

Place a light gray 4x4 round plate, centered vertically, under the overhanging three columns to the left of the previous two pieces.

Step 8.1

Place the left column of a dark blue 2x2 corner plate, with the corner at the front left so the studs form a braille letter H, on the left column of the previous piece so the front sides are even. This piece should wrap around the leftmost column of a 2x8 plate. Place another symmetrically behind the first.

Step 8.2

Place a dark blue 1x2 plate, horizontally, to the right of the front row of the front piece from the previous step. Repeat symmetrically on the back side.

Step 9.1

Now we'll move back to the right side of the locomotive. This will be the cab of the engine. Find the two columns that are eight studs wide near the right side. These are the fourth and fifth columns from the right. Place a dark blue 1x2 slope tile, horizontally with the tall side at the back, on the front row of these two columns. Repeat symmetrically on the back side.

Step 9.2

Place a dark blue 2x3 plate, horizontally, behind the front piece from the previous step so the left sides are even. Repeat symmetrically on the back side.

Step 9.3

The cab of the locomotive has an opening for the crew to add fuel to the firebox. Let's add some glowing coals! Place a transparent orange 1x1 slope tile, with the tall side at the back, behind the middle stud of the front piece from the previous step. Place another symmetrically behind the first.

Step 10.1

Place a dark blue 1x2 plate, vertically, to the left of the previous two pieces.

Step 10.2

Place the left column of a dark blue 2x2 corner plate, with the corner at the back left so the studs form a braille letter F, in front of the previous piece. Repeat symmetrically on the back side.

Step 10.3

Place a dark blue 1x4 plate, horizontally, to the right of the front stud of the front piece from the previous step. Repeat symmetrically on the back side.

Step 11

Place a dark blue 1x6 brick, vertically and centered vertically, to the left of the two transparent orange 1x1 slope tiles.

Step 12.1

Place a dark gray 1x4 arch brick, vertically and centered vertically, to the right of the previous piece to make the doorway to the firebox.

Step 12.2

Place the leftmost stud of a light blue 1x3 brick, horizontally, in front of the previous piece. Repeat symmetrically on the back side.

Step 12.3

Place a gold 1x1 round plate with a hollow stud to the right of each of the previous two pieces.

Group 13.

Step 13.1

Now we'll add some gauges over the firebox. Place a dark gray 1x4 brick with four studs on one side, vertically with the side studs on the right, centered vertically over the 1x4 arch brick.

Step 13.2

Place a dark blue 1x6 brick, vertically and centered vertically, to the left of the previous piece.

Step 13.3

Place a light gray 1x1 round plate on each of the front three side studs on the 1x4 brick with side studs.

Step 13.4

Push the bar of a black bar with a clip on one side, with the fingers of the clip laying flat on the right, into the remaining hollow stud of the 1x4 brick with four side studs.

Step 14

Place the left stud of a light blue 1x2 brick, horizontally, in front of the 1x4 brick with four studs on one side. Repeat symmetrically on the back side.

Step 15.1

Place a light blue 1x1 brick with a recessed stud on one side, with the side stud on the right, to the right of each of the previous two pieces.

Step 15.2

Find a gold nozzle piece. This looks like a bar, about 2L long, with a short bar on one side. Push the short bar of one nozzle, with the longest bar hanging straight down, into the hollow side stud of each of the previous two pieces.

Step 16.1

Place a dark blue 1x4 plate, horizontally, on the frontmost wall of the cab. This is a column of four studs. Repeat symmetrically on the back side.

Step 16.2

Place a dark blue 2x2 corner plate with the corner at the front left so the studs form a braille letter H, behind the front piece from the previous step so the left sides are even. Repeat symmetrically on the back side.

Step 17.1

Now we'll add some more levers and gauges. Place a brown 1x2 plate with two studs sticking up from one side, vertically with the side studs on the right, between the right studs of the previous two pieces. It will be above two 1x1 round plates.

Step 17.2

Place a light gray 1x1 round plate with a short bar on one side, with the bar at the front, on the front side stud on the right side of the previous piece.

Step 17.3

Place a light gray 1x1 round tile with a gauge print on the side stud behind the previous piece.

Step 17.4

Find the clip that's behind the previous piece. Clip a silver wrench, upright with the opening at the top, into this clip.

Step 18.1

Next, we'll turn our attention to the left side of the train. Place a light blue 1x2 brick, vertically and centered vertically, on the leftmost column of the train.

Step 18.2

Place a dark gray 2x2 round tile with a hole to the right of the previous piece.

Step 18.3

Place a dark tan 2x3 plate, horizontally, to the right of the previous piece.

Step 18.4

Place a dark gray 1x2 brick with a log pattern, vertically, to the right of the previous piece.

Step 18.5

Place a light blue 2x4 tile, horizontally, to the right of the previous piece.

Step 18.6

Place a dark gray 1x2 brick with a log pattern, vertically, to the right of the previous piece.

Step 19.1

Place a dark blue 1x2 brick with two studs on one long side, horizontally with the side studs at the front, on the left two studs on the front row of the train. Repeat symmetrically on the back side.

Step 19.2

Place a light gray 1x1 brick with a stud on one side, with the side stud at the front, to the right of the front piece from the previous step. Repeat symmetrically on the back side.

Step 19.3

Place a dark blue 1x2 brick with two studs on one long side, horizontally with the side studs at the front, to the right of the front piece from the previous step. Repeat symmetrically on the back side.

Step 19.4

Place a light gray 1x1 brick with a stud on one side, with the side stud at the front, to the right of the front piece from the previous step. Repeat symmetrically on the back side.

Step 20

Next we'll add some brick onto the 1x2 bricks with log patterns that we placed earlier. One is to the left of the cab, and the other is to the left of the 2x4 tile that's to the left of the first. Place a dark gray 1x1x2 tall brick with two studs on one side, with the side studs at the front, on the front studs of each of the two 1x2 bricks with a log pattern. Repeat symmetrically on the back side. You'll place a total of four pieces in this step.

You will have two light blue 2x6 plates leftover when you finish this group.

Group 14.

Step 21.1

Now we'll start building the sides of the locomotive. Place a leftover light blue 2x6 plate, horizontally, in front of you.

Step 21.2

Place the back two studs of a light blue 1x4 plate, vertically, under the leftmost column of the previous piece. Repeat symmetrically on the right side.

Step 21.3

Place a dark tan 2x6 plate, horizontally, on the previous two pieces and in front of the first 2x6 plate.

Step 21.4

Place a light blue 2x2 tile on the back left corner of the assembly. Repeat symmetrically on the right side.

Step 21.5

Place a light blue 1x2 jumper plate, horizontally, on the back row between the previous two pieces.

Step 21.6

Place a light blue 1x2 tile, horizontally, in front of the previous piece.

Step 21.7

Place a light blue 1x4 tile, horizontally and centered horizontally, in front of the previous piece.

Step 21.8

Place a gold 1x1 tile with a clip on top, with the fingers of the clip at the front and back, to the left of the previous piece. Repeat symmetrically on the back side.

Step 21.9

Place three dark blue 1x2 slope tiles, horizontally with the tall sides at the back, on the front row of the assembly.

Step 21.10

Repeat steps 21.1-21.9.

Step 21.11

Rotate one of the side assemblies so it is upright and horizontal with the tiles at the front and the slope tiles on the bottom. Place it on the side studs of the front two 1x1x2 tall bricks with side studs from step 20. Repeat symmetrically on the back side with the other side assembly.

Step 22.1

Place a light gray 1x2x2 wall panel, vertically with the wall on the right, centered vertically to the left of the two side assemblies. Skip one column to the left and place another, vertically with the wall on the left. There should be a 2x2 round tile with a hole to the left of this piece.

Step 22.2

Place a dark tan 2x3 plate, horizontally, on the previous two pieces.

You will have four light gray 1x2x2 tall bricks with four studs on one side leftover when you finish this group.

Group 15.

Step 23.1

Place a leftover light gray 1x2x2 tall brick with four studs on one side, horizontally with the side studs at the front, in front of the previous piece so the right sides are even. Place another to the left of the first. Repeat these two pieces symmetrically on the back side. You'll place a total of four pieces in this step.

Step 23.2

Place a dark blue 1x2x2 tall brick with four studs on one side, horizontally with the side studs at the front, to the left of the front left piece from the previous step. The left side should be even with the left side of the locomotive. Repeat symmetrically on the back side.

Step 23.3

Place a dark blue 1x2x2 tall brick with four studs on one side, vertically with the side studs on the left, on the leftmost column between the previous two pieces.

Step 24.1

Place a dark blue 2x2 plate on the previous piece so it overhangs one column to the left.

Step 24.2

Place the leftmost stud of a dark blue 1x4 plate, horizontally, in front of the right column of the previous piece. Repeat symmetrically on the back side.

Step 24.3

Place the left column of a dark blue 2x2 plate between the rightmost studs of the previous two pieces.

Step 25

Place a black 4x4 hollow plate on the left side of the train so it is offset one column from the left. Only the left column of the 2x2 plate from step 24.1 should be to the left of this piece.

Step 26.1

There are six columns of side studs on the front side of the locomotive near the left side. There are four columns of three and two columns of four. Place a dark blue 1x1 plate with a 1x1 slope tile on one side, upright with the slope on the bottom, on the bottom two studs of the rightmost column of side studs on the front side of the locomotive. Place the top stud of another on the bottom left side stud on the front side. Repeat these two pieces symmetrically on the back side. You'll place a total of four pieces in this step.

Step 26.2

Place a gold 1x1 tile with a clip on top, with the click fingers on the top and bottom, on each of the four previous pieces.

Step 27.1

Place a dark blue 1x4 plate, horizontally, in between the front two pieces from the previous step. Repeat symmetrically on the back side. There should be two free rows of side studs above each of these pieces.

Step 27.2

Place the top row of a dark blue 2x2 curved slope tile, with the tall side on top, on the left two studs of each of the two previous pieces. Place another to the right of each of the first two. You'll place a total of four pieces in this step.

Step 28.1

Place a gold 1x2 plate with a bar on one long side, upright with the bar on the left, on the leftmost column of side studs on the front side of the train. Repeat symmetrically on the back side.

Step 28.2

Place a gold 1x2 ingot tile, upright, on each of the previous two pieces.

Step 29.1

There should now be two rows of five side studs on the front side of the train. Place a dark blue 1x1 plate on the left and right studs of the bottom rows of side studs.

Step 29.2

Place the bottom stud of a dark blue 1x2 curved slope tile, upright with the tall side on the bottom, on each of the two pieces from the previous step.

Step 30.1

Place a dark blue 1x3 plate with rounded ends, horizontally, on the lower row of side studs between the previous two pieces.

Step 30.2

Place a dark blue 1x2 slope tile, horizontally with the thick side on the bottom, above the left two studs of the previous piece.

Step 30.3

Place a dark blue 1x1 slope tile, with the tall side at the bottom, to the right of the previous piece.

Step 31.1

Rotate the locomotive 180 degrees so the cab is on the left. There should now be two rows of five side studs on the front side of the train. Place a dark blue 1x1 plate on the left and right studs of the bottom rows of side studs.

Step 31.2

Place the bottom stud of a dark blue 1x2 curved slope tile, upright with the tall side on the bottom, on each of the two pieces from the previous step.

Step 32.1

Place a dark blue 1x3 plate with rounded ends, horizontally, on the lower row of side studs between the previous two pieces.

Step 32.2

Place a dark blue 1x2 slope tile, horizontally with the thick side on the bottom, above the right two studs of the previous piece.

Step 32.3

Place a dark blue 1x1 slope tile, with the tall side at the bottom, to the left of the previous piece.

Group 16.

Step 33.1

Rotate the locomotive 180 degrees so the cab is on the right. Place a dark blue 2x2 corner plate, with the corner at the front right so the studs form a braille letter J, on the second and third studs from the front on the third and fourth columns from the right. There should be an upright stud to the right of the back stud on this piece. Repeat symmetrically behind the first.

Step 33.2

Place a black 1x8 plate, horizontally, to the left of the back stud of the front piece from the previous step. Place another behind the first.

Step 34.1

Now we'll add the front of the boiler! Find the four side studs on the left side of the train. Place the top two rows of a black 4x4 round brick, with the studs on the left, on these side studs.

Step 34.2

Place a gold 4x4 dish on the previous piece.

Step 34.3

Place a black 2x2 dish on the previous piece.

Step 35.1

Find the black 4x4 hollow plate that's on top of the left side of the train. Place a dark blue 2x2 curved slope tile, with the tall side at the back, to the right of the 4x4 hollow plate so the front sides are even. Repeat symmetrically on the back side.

Step 35.2

Place a light blue 1x4 curved slope tile, vertically, to the right of the previous two pieces.

Step 35.3

Skip the next four columns and place another light blue 1x4 curved slope tile, vertically. This will be just to the left of the cab.

Step 36.1

Place a dark blue 1x2 plate, vertically and centered vertically, to the right of the previous piece.

Step 36.2

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

Step 37.1

Find the four columns of two studs that are between the two 1x4 curved slope tiles on top of the train. Place a black 2x2 round tile with a single stud on the left two rows. Place another to the right of the first.

Step 37.2

Place a black 2x2 dish on each of the previous two pieces.

Step 37.3

Place a black 1x1 round tile on each of the previous two pieces.

Step 38.1

Next we'll start adding some windows to the cab. Find the column of four studs to the right of the right 1x4 curved slope tile. Place a light blue 1x2 brick, vertically and centered vertically, on this column.

Step 38.2

Place a clear 1x1 brick in front of the previous piece. Repeat symmetrically on the back side.

Step 38.3

Place a white travel mug to the right of the back stud of the 1x2 brick from step 38.1. This piece looks like a 1x1 round brick with no stud on top.

Step 39.1

Assemble two windows by pushing two clear 2x2 window panes into two gold 1x2x2 window frames. The window panes have small pegs on two sides and the window frames have two small holes inside the top and bottom sides for the pegs.

Step 39.2

Place one window, horizontally with the pane at the front, on the left two studs on the front wall of the cab. This wall has three studs. Repeat symmetrically on the back side.

Step 39.3

Place a light blue 1x2 inverted slope brick, horizontally with the slope on the right, to the right of each of the previous two pieces.

Step 40.1

Place a light blue 1x2 brick, horizontally, on each of the previous two pieces.

Step 40.2

Place a light blue 1x2 jumper plate, vertically, on the front two studs of the left wall of the cab. This wall is a column of four studs that's to the left of the 1x2x2 windows. Place another behind the first.

Step 41

Place a dark blue 1x4 tile, horizontally, on the front wall of the cab. Repeat symmetrically on the back side.

Step 42

Next, we'll add a turntable which will allow the wheels on the left side of the locomotive to turn. Find the 4x4 round plate that's under the left end of the locomotive. Push the center stud of a black 4x4 turntable base onto the center circular anti-stud of the 4x4 round plate. It should audibly click into place and then be free to rotate.

Bag 3.

Group 17.

Step 43.1

Now we'll build the funnel for the train! The funnel moves up and down as the train moves along the tracks! Set the rest of the locomotive aside for now. Place a black 2x2 plate in front of you.

Step 43.2

Place a black 2x2 plate with a ball on one side, with the ball on the right, on the previous piece.

Step 44

Place a black 2x2 round brick on the previous piece.

Step 45

Push a red 10L axle down through the hole between the studs of the previous piece. Push it down as far as it will go.

Step 46.1

Slide the hole between the studs of a black 2x2 round brick down over the previous piece. Push it all the way down until it attaches to the first 2x2 round brick.

Step 46.2

Slide the hole between the studs of a black 2x2 round plate down over the axle. Push it all the way down until it attaches to the previous piece.

Step 46.3

Slide the hole between the studs of a black 2x2 round brick down over the axle. Push it all the way down until it attaches to the previous piece.

Step 47.1

Slide the hole between the studs of a black 2x2 round plate down over the axle. Push it all the way down until it attaches to the previous piece.

Step 47.2

Slide the hole between the studs of a black 2x2 round brick down over the axle. Push it all the way down until it attaches to the previous piece.

Step 48.1

Slide the hole between the studs of a tan 2x2 thick plate with ridges down over the axle. Push it all the way down until it attaches to the previous piece.

Step 48.2

Place a dark gray 2x2 round tile with a hole on the previous piece. The hole will slide over the axle.

Step 49

Place a black 2x2x3 cone under the rest of the funnel assembly.

Step 50

Place the rest of the locomotive in front of you, horizontally with the cab on the left. Rotate the funnel 180 degrees so the cone is on top and the axle is on the bottom. The ball below the cone should be on the right. Find the 2x2 hole on top of the train near the left side. Set the funnel, with the axle at the bottom, into this hole. Let it fall all the way down so the axle extends a little below the bottom of the locomotive.

Step 51

Push a light gray ball with an axle hole onto the bottom part of the axle.

Group 18.

Step 52.1

Now we'll build the first set of wheels for the locomotive. This is called a "truck." This truck is kind of complicated because it will move the funnel up and down! Set the rest of the locomotive aside for now. Place a light gray 1x1.5 thin liftarm with an axle on one side, with the axle on the right and the axle hole at the back in front of you.

Step 52.2

Push one side of a red 2L axle into the back axle hole of the previous piece. Only push it in so the right side is flush with the right side of the thin liftarm so the left side extends to the left.

Step 53.1

Push the axle hole of a dark tan 2L thick liftarm with one axle hole and one pin hole, vertically with the pin hole at the front, onto the left side of the previous piece. Push it all the way to the right.

Step 53.2

Push the axle hole of a light gray 1x1.5 thin liftarm with an axle on one side, with the axle on the left and the axle hole at the back, onto the left end of the 2L axle.

Step 54.1

Now we'll build a pair of identical assemblies. Place a black 1x1 brick with an axle hole, with the axle hole at the front and back in front of you.

Step 54.2

Push a red 4L axle into the hole of the previous piece so the axle is flush with the back of the brick.

Step 54.3

Push a yellow thin bushing onto the axle. Push it all the way back to the brick.

Step 54.4

Find a black 3L liftarm where one hole is an axle hole perpendicular to the other holes. Push the axle hole, with the axle hole at the top facing front and back, onto the axle. Push it all the way back to touch the previous piece.

Step 54.5

Push a yellow thin bushing onto the axle. Push it all the way back to the previous piece.

Step 54.6

Push the axle hole of a black 1x1 brick with an axle hole, with the stud on top, onto the front side of the axle.

Step 54.7

Repeat steps 54.1-54.6.

Step 54.8

Slide the bottom pin hole of one assembly, vertically with the 1x1 bricks at the top, onto the left axle of the truck assembly. Repeat symmetrically on the right side. These pieces won't stay up on their own, but that's OK for now.

Step 55.1

Push a yellow thin bushing onto the little bit of axle extending to the left of the left assembly from the previous step.

Step 55.2

Push a tan 12 tooth gear, with the teeth on the right, onto the little bit of axle extending from the right side of the assembly.

Step 56.1

Now we'll start connecting the assembly. Place a dark gray 1x4 plate, horizontally, under the front two 1x1 bricks. Repeat symmetrically on the back side.

Step 56.2

Place a black 1x8 plate, horizontally and centered horizontally, under each of the previous two pieces.

Step 56.3

Place a black 1x2 brick with a hole, horizontally, under the left two studs of each of the previous two pieces. Repeat symmetrically on the right side. The whole assembly should be a bit more rigid now!

Step 57

Place a dark gray 1x4 plate, vertically, on the second column from the left on the truck. Repeat symmetrically on the right side.

Step 58.1

Place a black 1x1 plate with two studs hanging down from one side, with the side studs on the left, on the front left stud of the assembly. Repeat symmetrically on the back side.

Step 58.2

Place a black 1x1 tile on the top side stud on the left side of each of the previous two pieces.

Step 59.1

Place a black 1x4 tile with two studs, vertically, under the previous two pieces.

Step 59.2

Place a black 1x1 round tile on each of the studs of the previous piece. You'll place a total of two pieces in this step. These are the bumpers for the train.

Step 60.1

Now we'll add the axle which will raise and lower the funnel. Keeping the bumpers on the left, flip the truck upside down. Find the back right 1x2 brick with a hole. Slide a black 6L axle into the hole of this brick from the back side until the front side is flush with the front of the brick.

Step 60.2

Place a tan 12 tooth gear, with the teeth at the front, in front of the previous piece. Push the axle into the gear. Then push the axle forward so it extends into the front right 1x2 brick with a hole. Push it until it's centered vertically on the truck. The two gears should mesh.

Step 61.1

Keeping the bumper on the left, flip the truck rightside up. Place a black 1x2 plate with two studs hanging down from one side, horizontally with the side studs at the front, centered horizontally on the front row of the truck. Repeat symmetrically on the back side

Step 61.2

Place a dark gray 1x2 plate with rounded ends, horizontally, on each of the previous two pieces.

Group 19.

Step 62

Place a dark gray 1x2 slope tile, vertically with the tall side on the right, centered vertically on the second column from the left on the truck. This column is a 1x4 plate.

Step 63.1

Find a black 1x1 plate with a two-sided stud on one side. Place this piece, vertically with the two-sided stud at the back, on the front left stud of the truck. Repeat symmetrically on the back side.

Step 63.2

Place the left stud of a black 1x2 curved slope tile, horizontally with the tall side on the left, on each of the previous two pieces.

Step 64

Place a dark gray 1x2 plate with rounded ends, vertically with the studs on the left, on the left two studs from the two 1x1 plates with two sided studs from step 63.1.

Step 65.1

We're going to add a couple of poinsettias to the left side of the truck now. Place a gold 1x1 round plate with an angled bar in front of you.

Step 65.2

Place a green 1x1 round plate with three leaves on the previous piece. We'll adjust the angle of the leaves later.

Step 65.3

Push the short bar of a red flower into the hollow stud of the previous piece.

Step 65.4

Repeat steps 65.1-65.3.

Step 65.5

Push the short bar of one flower assembly into each of the two hollow studs on the left side of the truck. Rotate the short bar so the face of the flower is pointing up and to the left. Rotate the leaves of the assembly so they hang down and face slightly away from the center of the truck.

Step 66.1

Now we'll add some more details to the truck. Place a black 1x2 plate with a bar on one long side, horizontally with the bar at the back, in front of you.

Step 66.2

Push the hollow stud of a black 1x1 cone onto each end of the bar of the previous piece. You'll place two pieces in this step.

Step 66.3

Place a transparent yellow 1x1 round plate on the anti-stud of the left piece from the previous step.

Step 66.4

Now we'll place this assembly on the truck. Find the second and third free studs from the left on the back row of the truck. These studs are between two 1x1 bricks. Place the assembly on these two studs with the cones at the back.

Step 66.5

Next we'll make a symmetrical assembly for the front side. Place a black 1x2 plate with a bar on one long side, horizontally with the bar at the front, in front of you.

Step 66.6

Push the hollow stud of a black 1x1 cone onto each end of the bars of the previous piece. You'll place two pieces in this step.

Step 66.7

Place a transparent yellow 1x1 round plate on the anti-stud of the left piece from the previous step.

Step 66.8

Now we'll place this assembly on the truck, symmetrically to the first one. Find the second and third free studs from the left on the front row of the truck. Place the assembly on these two studs with the cones at the back.

Group 20.

Step 67.1

We're almost done with this truck! Place a black 1x2 curved slope tile, horizontally with the tall side on the left, on the rightmost two studs on the front row. Repeat symmetrically on the back side.

Step 67.2

Place a dark tan 1x2 tile, vertically, between the left studs of the previous two pieces.

Step 68.1

Now we'll start adding the wheels! Place a black train wheel in front of you, with the widest side at the front. Push a black 6L axle into the axle hole of the previous piece, pushing it back so the back side is flush with the back of the wheel.

Step 68.2

Slide the axle, with the wheel at the back, into the holes of the left pair of 1x2 bricks with holes.

Step 69

There should now be two free axles on the front side of the truck, and one at the back left. Place a wheel on each of these axles, with the widest side next to the truck. The front and back ends of the axles should not extend past the wheels.

Step 70

Find the two side studs on the front side of the truck. Place a dark gray 1x2 plate with a long bar on one side, horizontally with the bar at the bottom, on these side studs. Repeat symmetrically on the back side.

Step 71

Now we'll place the truck on the locomotive! Place the locomotive in front of you, horizontally with the funnel on the left. Find the 4x4 turntable under the left side of the locomotive. The truck has two rows of four studs. Keeping the flowers on the left, place these two rows under the turntable.

Group 21.

Step 72.1

Next we'll build another truck! Set the locomotive aside for now. Place a black 4x4 hollow plate in front of you.

Step 72.2

Place a black 2x4 plate, vertically and centered horizontally, on the previous piece.

Step 73

Place a black 4x4 hollow plate to the left of the previous piece. Repeat symmetrically on the right side.

Step 74

Place a dark gray 1x10 plate, horizontally, on the front row of the previous piece. Repeat symmetrically on the back side.

Step 75.1

Place a dark gray 2x8 plate, horizontally, between the previous two pieces so the left sides are even.

Step 75.2

Place a light gray 2x3 plate with a rounded end, horizontally with the rounded end on the right, to the right of the previous piece.

Step 76

Place a black 1x2 brick with a hole, horizontally, under the second and third studs from the left on the front row of the truck. Repeat symmetrically on the right side. Repeat these two pieces symmetrically on the back row. You'll place a total of four pieces in this step.

Step 77.1

Now we'll start adding the wheels! Place a black train wheel in front of you, with the widest side at the front. Push a black 6L axle into the axle hole of the previous piece, pushing it back so the back side is flush with the back of the wheel.

Step 77.2

Slide the axle, with the wheel at the back, into the holes of the left pair of 1x2 bricks with holes.

Step 77.3

Repeat steps 77.1-77.2 with the right pair of 1x2 bricks with holes.

Step 77.4

Place a wheel on each of these axles, with the widest side next to the truck.

Group 22.

Step 78.1

Find a black train wheel decoration. This piece is about 10 studs long, it only has two studs on top, and it has a pretty complex shape. One side is decorated and textured, and the other is not. Place this piece, horizontally with the studs on top and the decorated side at the front, on the front row of the truck. Repeat symmetrically on the back side.

Step 78.2

Place a black 1x2 slope tile, horizontally with the tall side on the back, on the front piece from the previous step. Repeat symmetrically on the back side.

Step 79.1

Place the rightmost column of a black 2x3 inverted slope brick, horizontally with the slope on the left, centered vertically on the leftmost column of the truck.

Step 79.2

Place a dark tan 1x2 tile, vertically and centered vertically, on the rightmost column of the truck.

Step 80.1

Place a black 2x2 brick to the left of the previous piece. Place another to the right of the 2x3 inverted slope brick.

Step 80.2

Place a black 1x6 brick, horizontally, on the front row of the truck. Repeat symmetrically on the back side.

Step 81.1

Place a dark tan 2x4 tile, horizontally, on the left four columns of the truck.

Step 81.2

Place a dark tan 4x6 tile with a pin on top, horizontally and centered vertically, to the right of the previous piece.

Step 81.3

Place a dark tan 1x2 tile, vertically and centered vertically, to the right of the previous piece.

Step 82.1

Now we'll make the coupler that will attach the locomotive to the first car in the train. Find a dark gray 3L liftarm which has axle holes on the ends. Place this piece, horizontally with the axle holes facing up and down, in front of you.

Step 82.2

Push the axle side of a tan 2L axle/pin combo, with the axle side on top, into the bottom side of each of the axle holes of the previous piece.

Step 82.3

Find the rounded plate with a hole that extends to the right side of the train. Push the left pin of the coupler, from the top, into this hole so the coupler extends to the right.

Step 83

Now we'll add the second truck to the locomotive. Place the locomotive, horizontally with the first truck on the left, in front of you. We'll push the pin on the truck into a hole that goes up through the floor of the locomotive. This hole is centered vertically between the 1x2 slope tiles that are on the front and back rows, and are even with the right sides of the cab. There is a vertical 2x8 plate under them. Push the pin into the center circular anti-stud of this 2x8 plate.

Step 84

Now we'll add some decorations to the funnel! Find the 4x4 hollow plate that's around the base of the funnel. Place a gold 2x2 macaroni tile, with the flat sides on the left and back on the front right corner of this piece. Work your way around the funnel, placing three more macaroni tiles so they make a circle around the funnel.

Step 85.1

Next, we'll make the train's bell! Push a gold bar with a clip on one side into the hollow stud of a gold 1x1 cone.

Step 85.2

Find the ball on a bar that's sticking out of the right side of the funnel. Clip the bell, with the cone on the bottom, onto this bar.

Group 23.

Step 86.1

Now we'll add some smoke coming out of the funnel! The top of the funnel has four circular anti-studs. Place a white 1x1 round plate with a hollow stud, upside down, into the back left of these anti-studs.

Step 86.2

Push the bar of a white bar with a clip on one side, with the fingers of the clip at the front and back, into the hollow anti-stud of the previous piece.

Step 87

Find a white wavy cloud with a bar on one side. Clip the bar of this piece, with the cloud extending to the right with the curved side on top, into the clip of the previous piece.

Group 24.

Step 88.1

The train will likely have to travel at night, so let's add a headlight! Place a dark gray 1x2 jumper plate, vertically, on the column of two studs to the left of the funnel.

Step 88.2

Place a dark gray 1x1 brick with a recessed stud on one side, with the side stud on the left, on the previous piece.

Step 88.3

Place a transparent yellow 1x1 round plate on the side stud of the previous piece.

Step 88.4

Place a white 2x2 dish on top of the 1x1 brick with a recessed side stud.

Step 89.1

Now we'll add some handrails to the side of the engine. Find the four clips on the front side of the locomotive. Clip a gold 6L bar with a stop ring, with the stop ring on the left, into each pair of two clips.

Step 89.2

Find the two side studs on the front side of the locomotive, near the very right edge. Place a gold 1x2 plate with a bar on one long side, horizontally with the bar at the bottom, on these two studs.

Step 90

Now we'll add a decorative nameplate! Find the single stud on the front side of the train which is over the right handrail from step 89.1. Place the center anti-stud of a gold 4x4 macaroni tile with a "HOLIDAY EXPRESS" print, on this jumper plate so it curves down like a frown.

Step 91.1

Next we'll add some poinsettias to this side of the locomotive. Place a gold 1x1 round plate with an angled bar in front of you.

Step 91.2

Place a green 1x1 round plate with three leaves on the previous piece. We'll adjust the angle of the leaves later.

Step 91.3

Push the short bar of a red flower into the hollow stud of the previous piece.

Step 91.4

Find the three studs on the front side of the locomotive, under the funnel. Note these are NOT the studs on the truck. Push the bar of the assembly into the middle hollow stud so the face of the flower is angled up. Rotate the leaves so they hang down.

Step 92.1

We'll make a couple more small flowers. Push the short bar of a red flower into the hollow stud of a gold 1x1 round plate with an angled bar.

Step 92.2

Repeat the previous step.

Step 92.3

Push the short bar of one flower assembly into each of the remaining two hollow studs so the face of the flowers face up and away from the first flower.

Step 93.1

Now we'll add some handrails to the side of the engine. Rotate the engine 180 degrees so the funnel is on the right. Find the four clips on the front side of the locomotive. Clip a gold 6L bar with a stop ring, with the stop ring on the right, into each pair of two clips.

Step 93.2

Find the two side studs on the front side of the locomotive, near the very left edge. Place a gold 1x2 plate with a bar on one long side, horizontally with the bar at the bottom, on these two studs.

Step 94

Now we'll add the nameplate to this side. Find the single stud on the front side of the train which is over the left handrail from step 93.1. Place the center anti-stud of a gold 4x4 macaroni tile with a "HOLIDAY EXPRESS" print, on this jumper plate so it curves down like a frown.

Step 95.1

Next we'll add some poinsettias to this side of the locomotive. Place a gold 1x1 round plate with an angled bar in front of you.

Step 95.2

Place a green 1x1 round plate with three leaves on the previous piece. We'll adjust the angle of the leaves later.

Step 95.3

Push the short bar of a red flower into the hollow stud of the previous piece.

Step 95.4

Find the three studs on the front side of the locomotive, under the funnel. Note these are NOT the studs on the truck. Push the bar of the assembly into the middle hollow stud so the face of the flower is angled up. Rotate the leaves so they hang down.

Step 96.1

We'll make a couple more small flowers. Push the short bar of a red flower into the hollow stud of a gold 1x1 round plate with an angled bar.

Step 96.2

Repeat the previous step.

Step 96.3

Push the short bar of one flower assembly into each of the remaining two hollow studs so the face of the flowers face up and away from the first flower.

Group 25.

Step 97.1

Now we'll make the roof of the locomotive. Set the locomotive aside for now. Place a white 6x6 plate, upside down, in front of you.

Step 97.2

Place two dark blue 1x3 plates, upside down and vertically, on the leftmost column of the previous piece. You'll place one in front of the other. Repeat symmetrically on the right side for a total of four pieces in this step.

Step 97.3

Keeping the previous pieces vertical, flip the assembly rightside up. Place a white 2x2 plate, centered vertically, on the rightmost two columns of the 6x6 plate.

Step 97.4

Place a white 2x3 plate, horizontally, to the left of the previous piece.

Step 97.5

Place a white 1x2 plate with two studs hanging down from one side, vertically with the side studs on the left, to the left of the previous piece.

Step 97.6

Place a gold 1x2 tile with a 10361 print on the side studs of the previous piece. This is the train's set number!

Step 97.7

Place a white 2x3 curved slope tile, vertically with the tall side at the back, on the leftmost two columns of the assembly so the front sides are even. Place two more to the right of the first. Repeat the previous three pieces symmetrically on the back side. You'll place a total of six pieces in this step.

Step 97.8

Set the locomotive back in front of you so it's horizontal, with the funnel on the left. Place the roof, with the 1x2 tile on the left, centered vertically on the cab so it overhangs one column to the right. The left side should be even. This completes the locomotive.

Bag 4.

Main Build: Tender

Group 26.

Step 98

Now we'll build the tender! This is a small car that follows the locomotive. Set the locomotive aside for now. Place a light gray 2x3 plate with a rounded end, horizontally with the rounded end on the right, in front of you.

Step 99

Place the right two columns of a light gray 2x3 tile, horizontally, on the previous piece so it overhangs one column to the left.

Step 100

Place the rightmost column of a light gray 2x4 plate, horizontally, under the overhanging column of the previous piece.

Step 101.1

Place the rightmost column of a light gray 2x3 tile, horizontally, on the leftmost column of the previous piece so it overhangs two columns to the left.

Step 101.2

Place the right two columns of a light gray 2x3 plate with a rounded end, horizontally with the rounded end on the left, under the overhanging columns of the previous piece.

Step 102

Place a black train wheel holder, vertically and centered vertically, under the assembly so it's even with the left 2x3 tile. Repeat under the right 2x3 tile. There should be two free columns between these pieces.

Step 103.1

Place a black 1x2 plate with two studs hanging down from one side, horizontally with the side studs at the front, on the front row between the previous two pieces. Place another symmetrically behind the first.

Step 103.2

Place a dark gray 1x2 plate with a bar on one long side, horizontally with the bar at the bottom, on the side studs of each of the previous two pieces.

Step 104

Now we'll add the wheels! Push a black train wheel, with the widest side at the back, from the bottom into the front side of each of the two wheel holders. The longest bar on the wheel should be at the back, and the wheels will audibly click into place. Repeat symmetrically on the back side.

Step 105

Place a dark tan 6x8 plate, horizontally and centered, on the tender.

Step 106.1

Now we'll make another coupler Find a dark gray 3L liftarm which has axle holes on the ends. Place this piece, horizontally with the axle holes facing up and down, in front of you.

Step 106.2

Push the axle side of a tan 2L axle/pin combo, with the axle side on top, into the bottom side of each of the axle holes of the previous piece.

Step 106.3

Find the rounded plate with a hole that extends to the right side of the tender. Push the left pin of the coupler, from the top, into this hole so the coupler extends to the right.

Group 27.

Step 107.1

Place a dark blue 1x4 plate, vertically and centered vertically, on the leftmost column of the tender. Repeat symmetrically on the right side.

Step 107.2

Place the leftmost stud of a dark blue 1x3 plate, horizontally, in front of the left piece from the previous step. Repeat symmetrically on the back side. Repeat the previous two pieces symmetrically on the right side. You'll place a total of four pieces in this step.

Step 107.3

There should be a two stud gap on the front and back rows between the previous pieces. Place a dark blue 1x2 plate with two studs sticking up from one side, horizontally with the side studs at the front, on the front row in this gap. Repeat symmetrically on the back side.

Step 108.1

Place a dark gray 1x2 plate with rounded ends on each of the previous two pieces.

Step 108.2

Make two stacks of two brown 1x2 bricks with a log pattern. Place one stack, horizontally, on each of the two pieces from the previous step.

Step 108.3

Place a dark gray 1x2 plate with rounded ends, horizontally, on each of the two stacks from the previous step.

Step 108.4

Place a light gray 1x2 plate with two studs hanging down 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 109

Place a light blue 1x2x3 tall wall panel, horizontally with the wall at the back, on the second and third studs from the left on the front row of the tender. Repeat symmetrically on the right side. Repeat the previous two pieces symmetrically on the back side. You'll place a total of four pieces in this step.

Step 110.1

Place a dark blue 1x1x2 tall brick with two studs on one side, with the side studs on the right, to the right of each of the right two pieces from the previous step.

Step 110.2

Place a dark blue 1x1 plate on each of the previous two pieces.

Step 110.3

Place a dark blue 1x1 brick on each of the previous two pieces.

Step 111.1

Now we'll add some hand rails to the left side of the tender. Place a dark blue 1x1x3 tall brick with two clips on one side, with the clips on the left, on the front left corner of the tender. Repeat symmetrically on the back side.

Step 111.2

Clip a gold 3L bar into the two clips of each of the previous two pieces.

Step 112

Place two dark blue 1x4 plates, horizontally, on the front row of the tender. Repeat symmetrically on the back side. You'll place a total of four pieces in this step.

Group 28.

Step 113

Place a brown 1x4x3 window frame, vertically with the ridge inside the window on the right, on the leftmost column between the two walls. Repeat symmetrically on the right side.

Step 114

Place a brown 4x8 plate, horizontally, centered vertically on the tender. It will attach to the previous two pieces.

Step 115.1

Now we'll close the right side of the tender. Place a dark blue 4x6 plate, with the studs on the right, on the side studs on the right side of the tender so the top side is even with the top of the tender.

Step 115.2

Place a dark blue 1x2 slope tile, vertically with the tall side on top, on the front two studs on the top row of the previous piece. Place two more behind the first so the entire top row is covered.

Step 116.1

Normally a tender carries fuel and water for the locomotive. This one carries presents! We'll make a container to hold them. Place two gold 1x4 low fence panels, horizontally with the fence at the back, on the front row of the tender. Repeat symmetrically on the back side. You'll place a total of four pieces in this step.

Step 116.2

Place a gold 1x4 low fence panel, vertically with the fence on the left, centered vertically on the leftmost column. Repeat symmetrically on the right side.

Step 117.1

We're going to add a cylindrical present. Inside the fence panels are four rows of six studs. Place a purple 2x2 round brick on the back two rows so it touches the rightmost fence.

Step 117.2

Place a light purple 2x2 round tile with a single stud on the previous piece.

Step 117.3

Now we'll add a bow! Place a gold 1x1 tile with a clip on top, with the fingers of the clip on the left and right, on the previous piece.

Step 118.1

Finally, we'll make wreaths for the front and back sides of the tender! Place a green 4x4 hollow round plate in front of you. The front and back rows should have two studs each.

Step 118.2

Place a green 1x1 round plate with three leaves, with the leaves on the left, on the left stud of the back row. Place another with the leaves at the front on the front stud of the left column. Place another with the leaves on the right on the right stud of the front row. Place another, with the leaves at the back, on the back stud of the right column.

Step 118.3

Push the short bar of a red flower into the hollow studs of the pieces from the previous step that are on the front and back rows.

Step 118.4

Push the short bar of a red pair of cherries, with the cherries hanging into the hole of the wreath, into the hollow studs of each of the remaining two 1x1 round plates with three leaves.

Step 118.5

Repeat steps 118.1-118.4.

Step 118.6

Place one wreath, centered horizontally, on the side studs on the front side of the tender. Repeat symmetrically on the back side.

Step 119

Now we'll add the tender to the train! Place the locomotive, with the funnel on the left, in front of you. Push the free pin on the right side of the locomotive's coupler into the hole on the round plate that extends to the left of the tender.

Bag 5.

Main Build: Flat Car

Group 29.

Step 120

Next up we'll build a flat car. This car holds a giant stuffed polar bear, as well as the model village we made earlier. Set the rest of the train aside for now. Place a black 4x4 hollow plate in front of you.

Step 121.1

Place a dark gray 1x4 plate, vertically on the left column of the previous piece. Repeat symmetrically on the right side.

Step 121.2

Place a black 1x2 plate with a bar on one long side, horizontally with the bar at the front, on the front row between the previous two pieces. Repeat symmetrically on the back side.

Step 122

Place a dark gray 1x2 plate with rounded ends, horizontally, on each of the previous two pieces.

You will have two black 2x4 plates leftover when you finish this group.

Group 30.

Step 123

Place a dark gray 4x4 hollow plate to the left of the previous two pieces. Repeat symmetrically on the right side.

Step 124.1

Now we'll build the ends of the flat car. Place a leftover black 2x4 plate, vertically, in front of you.

Step 124.2

Place a light gray 2x3 plate with a rounded end, horizontally with the rounded end on the left, centered vertically on the previous piece so the right sides are even. The rounded end should overhang to the left.

Step 124.3

Place a dark gray 1x2 plate, horizontally, in front of the previous piece so the right sides are even. Repeat symmetrically on the back side.

Step 124.5

Place a dark gray 1x4 plate, vertically, on the left column of the end assembly.

Step 124.6

Repeat steps 124.1-124.5.

Step 124.7

Place the right column of one end assembly, vertically with the rounded end on the left, under the leftmost column of the flat car. Repeat symmetrically on the right side with the other end assembly.

Step 125

Place a dark tan 6x8 plate, horizontally and centered vertically, on the flat car so the left sides are even. The rounded end of one 2x3 plate with a rounded end will extend to the left of this piece.

Step 126.1

Place a dark tan 2x4 plate, horizontally, to the right of the previous piece so the front sides are even. Repeat symmetrically on the back side.

Step 126.2

Place a dark tan 2x2 plate between the previous two pieces so the right sides are even. There should be a 2x2 hole to the left of this piece.

Step 127.1

Now we'll add some tiles to the flat car. First, we'll add the base for the model village. Place a brown 1x4 tile with two studs, horizontally, on the front row of the car so the left sides are even. Repeat symmetrically on the back side.

Step 127.2

Now we'll make the base for the stuffed polar bear. Place a dark blue 1x6 tile, vertically, on the rightmost column of the car.

Step 127.3

Place a dark blue 1x2 tile, horizontally, on the front row to the left of the previous piece. Place another to the left of the first. Repeat these two pieces symmetrically on the back side. You'll place a total of four pieces in this step.

Step 127.4

Place a dark blue 2x6 tile, vertically, to the left of the left two pieces from the previous step.

Group 31.

Step 128

Now we'll make the polar bear's body. Set the flat car aside for now. Place a white 4x4 hollow plate in front of you.

Step 129.1

Place two white 1x2x2 tall bricks with four studs on one side, vertically with the side studs on the right, on the rightmost column of the previous piece. Repeat symmetrically on the left side.

Step 129.2

Place a white 1x2x2 tall brick with four studs on one side, horizontally with the side studs at the front, centered horizontally on the front row of the polar bear. Repeat symmetrically on the back side.

Step 130

Place a white 4x4 hollow plate on the polar bear.

Step 131.1

Place a white 1x4 brick, vertically, on the leftmost column of the previous piece.

Step 131.2

Place a white 1x2 brick, horizontally, on the front row to the right of the previous piece. Repeat symmetrically on the back side.

Step 132.1

Place a dark green 1x4 plate, vertically, to the right of the previous two pieces.

Step 132.2

Place a tan 1x2 brick with two studs on one side, vertically with the side studs on the right, centered vertically on the previous piece.

Step 132.3

Place a teal 1x1 brick in front of the previous piece. Repeat symmetrically on the back side.

Step 132.4

Place a dark green 1x4 plate, vertically, on the previous three pieces.

Step 133.1

Place a white 1x2 tile, vertically and centered vertically, on the leftmost column of the polar bear.

Step 133.2

Place a white 1x2 plate, horizontally, in front of the previous piece so the left sides are even. Repeat symmetrically on the back side.

Step 134

Now we'll place the polar bear's body on the flat car. Place the flat car in front of you so it's horizontal, with the square of tiles on the right. Find the 4x4 of studs with a 2x2 hole that's near the right side of the car. Place the polar bear's body, with the 1x2 tile on the left, on this square of studs.

Step 135.1

Now we'll make a mechanism that moves the polar bear's head and arms as the train moves! Set the flat car aside for now. Place a light gray 5L thin liftarm, horizontally with the holes facing front and back, in front of you.

Step 135.2

Push a black 2L pin, from the front, into the rightmost and middle holes of the previous piece. These pins will extend 1L to the front.

Step 136

Push the holes of a black 7L thin liftarm, horizontally with the holes facing the front, onto the back sides of the previous two pieces so the left side of the 7L liftarm is even with the left side of the 5L liftarm.

You will have a black 2x2 plate with two holes under it leftover when you finish this group.

Group 32.

Step 137.1

Push the back hole of the leftover black 2x2 plate with two holes under it, with the holes facing the front and back, onto the left pin on the front side of the assembly.

Step 137.2

Push the back hole of a light gray 2x2 plate with two holes under it, with the holes facing the front and back, onto the other pin.

Step 138.1

Now we'll build a cam that will connect the wheels to the polar bear's head and arms. Place a light gray 1x1.5 thin liftarm with an axle on one side, with the axle on the left and the axle hole at the back, in front of you.

Step 138.2

Push one side of a light gray 3L axle into the back axle hole of the previous piece. Only push it in so the left side is flush with the left side of the thin liftarm so it extends to the right.

Step 138.3

Push a yellow thin bushing onto the previous piece. Push it as far left as it will go.

Step 138.4

Find a light gray axle and pin connector #1. This piece has a pin hole on one side with a perpendicular axle connector. Slide the pin hole, with the axle connector at the back, onto the 3L axle.

Step 138.5

Push a yellow thin bushing onto the 3L axle. Push it to the left until it just touches the previous piece. The axle and pin connector should be free to rotate on the axle.

Step 138.6

Push the axle hole of a light gray 1x1.5 thin liftarm with an axle on one side, with the axle on the left and the axle hole at the back, onto the right end of the 3L axle.

Step 138.7

Push a red 6L axle into the axle connector of the axle and pin connector #1.

Step 138.8

Rotate the cam assembly so the previous piece is horizontally on the right. There should be short axles at the front and back. Slide the back axle into the rightmost hole of the 7L thin liftarm.

Step 139.1

Now we need to build the front side of the assembly so the cam doesn't fall out! Place a light gray 5L thin liftarm, horizontally with the holes facing front and back, in front of you.

Step 139.2

Push a black 2L pin, from the back, into the rightmost and middle holes of the previous piece. These pins will extend 1L to the back.

Step 139.3

Push the holes of a black 7L thin liftarm, horizontally with the holes facing the front, onto the front sides of the previous two pieces so the left side of the 7L liftarm is even with the left side of the 5L liftarm.

Step 139.4

Push the two pins on the assembly we just made into the front holes on the two 2x2 plates with holes under them on the mechanism. The front axle of the cam should go through the rightmost hole of the assembly we just placed.

Step 140

Place a light gray 2x2 round brick, centered horizontally, on the two rows of four studs on the mechanism.

Step 141

Place the rest of the flat car, horizontally with the polar bear's body on the right, in front of you. Find the center 4x4 hollow plate on the bottom of the flat car. It will be centered horizontally. Hinge the 6L axle on the cam so it points up and place the 2x2 round brick on the mechanism in the 2x2 hole on this piece. The 6L axle should go through the 2x2 hole in the polar bear's body.

Group 33.

Step 142.1

Next we'll build the mounts for the polar bear's arms. Place a red 2L axle, vertically, in front of you.

Step 142.2

Push the bottom hole of a tan 2L thin liftarm with axle holes, upright, onto the back side of the previous piece. Only push it on so the back side is flush with the back of the 2L axle.

Step 142.3

Slide the pin hole of a light gray axle and pin connector #1, with the axle connector hanging down, onto the front side of the axle.

Step 142.4

Push the bottom hole of a tan 2L thin liftarm with axle holes, upright, onto the front side of the 2L axle. Push it back as far as it will go while still letting the axle and pin connector #1 spin freely.

Step 142.5

Push a yellow 7L axle into the top axle hole of the back 2L thin liftarm. Only push it in a little bit so it doesn't stick into the gap between the two thin liftarms.

Step 142.6

Place a teal 1L liftarm in the gap between the thin liftarms, then push the 7L axle forward until it is centered vertically. It will extend about 3L to the front and back. A 1L liftarm looks just like a hollow cylinder.

Step 142.7

Lift this assembly up so the axle and pin connector #1 hangs down and so the 7L axle is vertical. Connect the axle connector at the bottom to the axle sticking up through the polar bear's body.

Step 143

Slide the hole of a white 1x2 brick with a hole, horizontally, onto the front side of the 7L axle. Repeat symmetrically on the back side. Now, connect these two bricks to the left two studs on the front and back rows of the polar bear's body.

Step 144

Place a white 1x1 brick to the right of each of the previous two pieces.

Step 145

Place the left stud of a teal 1x1 plate with a 1x1 curved slope on one side, horizontally with the curved slope on the right, on each of the previous two pieces.

Step 146.1

Place a teal 1x2 brick, vertically and centered vertically, between the right studs of the previous two pieces.

Step 146.2

Place a dark green 1x1 half cylinder, with the flat sides at the front and back, on each of the two studs of the previous piece.

Step 147.1

Now we'll make the polar bear's neck. This hinged assembly lets the bear's head move up and down. Place a white 1x2 plate, vertically, in front of you.

Step 147.2

Place the right stud of a dark green 1x2 plate with a hole under one end, horizontally with the hole on the right, on each of the two studs of the previous piece.

Step 147.3

Push a light gray 2L pin into the holes of each of the previous two pieces. Unlike the black pins, these pins will spin freely when you push them in.

Step 147.4

Push the hole of a teal 1x2 plate with a hole on one stud, horizontally with the hole on the right, onto each of the previous two pieces. These pieces are shorter than the pieces from step 147.2.

Step 147.5

Now we'll place this assembly on the polar bear's body. Place the previous two pieces on the right two studs on the front and back rows of the bear's body. The dark green 1x2 plates with holes on the ends should extend all the way to the left side of the body.

Step 148

Place a dark green 1x2 curved slope tile, horizontally with the tall side on the right, on the left two studs on the front row of the body. Repeat symmetrically on the back side.

Step 149.1

Now we'll make the coupler for the right side of the flat car. Find a dark gray 3L liftarm which has axle holes on the ends. Place this piece, horizontally with the axle holes facing up and down, in front of you.

Step 149.2

Push the axle side of a tan 2L axle/pin combo, with the axle side on top, into the bottom side of each of the axle holes of the previous piece.

Step 149.3

Find the rounded plate with a hole that extends to the right side of the flat car. Push the left pin of the coupler, from the top, into this hole so the coupler extends to the right.

Step 149.4

Next we'll start building the bear's back. Find the two rows of four side studs that are on the right side of the bear, near the bottom. Place a white 1x1 slope tile, with the tall side at the back, on the front stud on the bottom row of four side studs. Repeat symmetrically on the back side.

You will have two tan 1x3 plates leftover when you finish this group.

Group 34.

Step 150.1

Now we'll build an assembly for the bear's back. Place a white 2x4 plate, horizontally, in front of you.

Step 150.2

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

Step 150.3

Place the back row of a white 2x2 curved slope tile, with the tall side at the back, to the left of the previous piece so the front row overhangs. Repeat symmetrically on the back side.

Step 150.4

Place a white 2x2 flat quarter dome, with the flat sides at the right and back, to the left of the front piece from the previous step. Repeat symmetrically on the back side.

Step 150.5

Now we'll add the bear's tiny little tail! Place a white 1x1 half cylinder, with the flat sides at the front and back, on the 1x2 jumper plate.

Step 150.6

Rotate the bear's back so it's upright with the tail at the bottom on the right. Place it on the right side of the bear so the tail is between the two 1x1 slope tiles we already placed.

Step 151.1

Now we'll build the bear's hips. Place a leftover tan 1x3 plate, horizontally, in front of you.

Step 151.2

Place a white 1x3 plate, horizontally, on the previous piece.

Step 151.3

Place the back row of a white 2x2 curved slope tile, with the tall side at the back, on the right two studs of the previous piece.

Step 151.4

Place a white 2x2 flat quarter dome, with the flat sides at the right and back, to the left of the previous piece.

Step 151.5

Place a white 1x2 plate, horizontally, under the front row of the hip so the right sides are even.

Step 151.6

Place a white 2x2 rounded corner plate, with the rounded corner at the front left, to the left of the previous piece so the front sides are even.

Step 151.7

Now we'll attach the hip to the body. Rotate the hip so it's horizontal with the anti-studs at the back and the rounded corner at the top right. Place it on the four side studs on the front side of the bear's body so the left side is even with the left side of the body.

Step 152.1

Let's build the other hip! Place a leftover tan 1x3 plate, horizontally, in front of you.

Step 152.2

Place a white 1x3 plate, horizontally, on the previous piece.

Step 152.3

Place the back row of a white 2x2 curved slope tile, with the tall side at the back, on the left two studs of the previous piece.

Step 152.4

Place a white 2x2 flat quarter dome, with the flat sides at the left and back, to the right of the previous piece.

Step 152.5

Place a white 1x2 plate, horizontally, under the front row of the hip so the left sides are even.

Step 152.6

Place a white 2x2 rounded corner plate, with the rounded corner at the front right, to the right of the previous piece so the front sides are even.

Step 152.7

Now we'll attach the hip to the body. We'll place it symmetrically to the first hip. Rotate the hip so it's horizontal with the anti-studs at the front and the rounded corner at the top right. Place it on the four side studs on the back side of the bear's body so the left side is even with the left side of the body.

Step 153.1

Next up we'll make the bear's belly. Place a white 1x4 double curved slope tile, vertically, in front of you.

Step 153.2

Place the middle stud of a white 1x3 plate, horizontally, under the second stud from the front on the previous piece. Place another behind the first.

Step 153.3

Place the back left stud of a white 2x2 flat quarter dome, with the flat sides on the left and back, on the right stud of the front piece from the previous step. Place another symmetrically behind the first.

Step 153.4

Place the right column of a white 2x2 curved slope tile, with the tall side on the left, on the leftmost column of the belly.

Step 153.5

Now we'll place the belly on the rest of the bear. Rotate the belly so the previous piece is on the bottom and the anti-studs are on the right. Place the bottom two rows on the two rows of side studs on the left side of the bear. There should be two free studs in front of and behind the bottom rows of the belly assembly.

Group 35.

Step 154.1

Next, we'll add the bear's feet. Place a tan 1x1 plate in front of you.

Step 154.2

Place the back left corner of a white 2x2 double curved slope brick, with the curved slopes on the front and right, on the previous piece.

Step 154.3

Place a white 1x1 tile on the back left stud of the previous piece.

Step 154.4

Repeat steps 154.1-154.3.

Step 154.5

Rotate one foot so the anti-studs are on the right, and so the flat sides are at the back and bottom. Place the back column on the two side studs in front of the belly. Repeat symmetrically on the back side with the other foot.

Step 155.1

Now we'll build the bear's head. Set the flat car aside for now. Place a teal 2x3 plate, vertically, in front of you.

Step 155.2

Place a light gray 1x2x2 tall brick with studs on three sides, horizontally with the side studs at the back, left and right, on the back row of the previous piece.

Step 156.1

Place a white 1x1x2 tall brick with two studs on one side, on the right column in front of the previous piece. Place another symmetrically to the left of the first.

Step 156.2

Place a light gray 1x2x2 tall brick with studs on three sides, horizontally with the side studs at the front, left, and right, in front of the previous two pieces.

Step 157.1

Place a white 1x2 plate, horizontally, on the previous piece.

Step 157.2

Place a white 1x2 slope tile, horizontally with the tall side at the top, on the bottom row of side studs on the front side of the head.

Step 158.1

Place a white 1x2 plate, horizontally, above the previous piece.

Step 158.2

Place the bottom row of a white 2x2 curved slope tile, with the tall side at the bottom, on the previous piece.

Step 159.1

Now we'll make the sides of the head. Rotate the head 90 degrees counterclockwise so the slopes are on the right. Place a white 1x2 plate, horizontally, on the right two studs on the top row of side studs on the front side of the head.

Step 159.2

Place the top stud of a white 1x1 plate with a curved slope on one side, with the curved slope at the bottom, on each of the two studs of the previous piece.

Step 159.3

Place a white 1x1 tile on the top stud of the left piece from the previous step.

Step 160.1

Place a white 1x2 plate, horizontally, on the right two studs on the top row of side studs on the back side of the head.

Step 160.2

Place the top stud of a white 1x1 plate with a curved slope on one side, with the curved slope at the bottom, on each of the two studs of the previous piece.

Step 160.3

Place a white 1x1 tile on the top stud of the left piece from the previous step.

Step 161.1

Place a white 1x1 plate with a stud sticking up from one side, with the side stud on the left, on the top left side stud on the front side of the head. Repeat symmetrically on the back side of the head. The side studs will be the bear's eyes.

Step 161.2

Place the top stud of a white 1x1 plate with a curved slope on one side, with the curved slope at the bottom, on each of the previous two pieces.

Group 36.

Step 162.1

Next we'll add some more curves to the head. Place a white 1x1 plate in front of you.

Step 162.2

Place the back stud of a white 1x2 curved slope tile, vertically with the tall side at the front, on the previous piece.

Step 162.3

Repeat steps 162.1-162.2.

Step 162.4

Rotate one of the assemblies we just made so the anti-studs are at the back and the 1x1 plate is at the top. Place the bottom stud on the top right stud on the front side of the head. Repeat symmetrically on the back side of the head.

Step 163.1

Place a white 1x2 quarter cylinder, vertically with the tall side on the left, between the previous two assemblies.

Step 163.2

Place the back row of a white 2x2 rounded corner plate, with the rounded corner at the back right, on the left two studs on the front row on the top of the head. Place another symmetrically behind the first. We'll place the ears on this piece.

Step 164.1

Place a white 1x4 plate, vertically, on the right studs of the previous two pieces.

Step 164.2

Place a white 1x1 half cylinder, with the flat sides on the left and right, on the front stud of the previous piece. Repeat symmetrically on the back side.

Step 164.3

Place a white 1x2 plate, vertically, between the previous two pieces.

Step 164.4

Place a white 1x2 tile, vertically, on the previous piece.

Step 165

Place a white 1x2 quarter cylinder, vertically with the tall side on the right, to the left of the previous piece.

Step 166.1

Now we'll add a couple more curves to the sides of the head. Place a white 1x1 plate in front of you.

Step 166.2

Place the back stud of a white 1x2 curved slope tile, vertically with the tall side at the front, on the previous piece.

Step 166.3

Repeat steps 166.1-166.2.

Step 166.4

Rotate one of the assemblies we just made so the anti-studs are at the back and the 1x1 plate is at the top. Place the bottom stud on the top left stud on the front side of the head. Repeat symmetrically on the back side of the head.

Step 167

Now we'll add the polar bear's chin. Place a 1x2 quarter cylinder, vertically with the tall side on top, on the bottom row of two side studs on the left side of the head.

Step 168.1

We just need to add the snout now! Place a white 2x2 slope brick, with the slope on top, on the side studs above the previous piece.

Step 168.2

Let's add the nose! Place a black 1x2 tile with rounded ends on the previous piece.

Step 169

Now we'll add the head to the body. Set the flat car, horizontally with the bear's body on the right, in front of you. Find the two rows of two studs on top of the body. Place the left two columns of anti-stud on the head, with the nose on the left, on these two rows.

Group 37.

Step 170.1

Next, we'll make the bear's arms. The bear holds a bell in one hand that he rings when the train moves. Place a white 2x2 round plate with a round bottom in front of you.

Step 170.2

Place a white 1x2 half circle brick, horizontally with the round side at the back, on the back row of the previous piece.

Step 170.3

Place a white 1x2 brick with an axle hole, horizontally, in front of the previous piece.

Step 170.4

Place a white 2x2 round brick on the previous two pieces.

Step 170.5

Place a white 2x2 round tile with a single stud on the previous piece.

Step 170.6

Place a white 1x1 tile with a clip on top, with the clip fingers at the front and back, on the previous piece.

Step 170.7

Now we'll make a small bell. Place a gold 1x1 cone, with the stud on top, in front of you.

Step 170.8

Place a gold 1x1 round plate with a hollow stud on the previous piece.

Step 170.9

We just need to add a handle now! Push one end of a brown 2L bar with a stop ring into the hollow stud of the previous piece. Push it down as far as it will go.

Step 170.10

Clip the handle of the bell, with the cone on the left, into the clip on top of the bear's arm.

Step 170.11

Rotate the arm so the cone of the bell is on top, and so the 1x2 brick with an axle hole is on the right with the axle hole at the front. Push the axle hole onto the back side of the axle that extends below the bear's head.

Step 171.1

Now we'll make the bear's other arm. Place a white 2x2 round plate with a round bottom in front of you.

Step 171.2

Place a white 1x2 half circle brick, horizontally with the round side at the back, on the back row of the previous piece.

Step 171.3

Place a white 1x2 brick with an axle hole, horizontally, in front of the previous piece.

Step 171.4

Place a white 2x2 round brick on the previous two pieces.

Step 171.5

Place a white 2x2 round tile with a single stud on the previous piece.

Step 171.6

Rotate this arm so the previous piece is at the bottom and so the 1x2 brick with an axle hole is on top, with the axle hole at the back. Push the axle hole onto the front side of the axle that extends below the bear's head.

Step 172.1

Now we'll add wheels to the flat car! Place a black train wheel in front of you, with the widest side at the front. Push a black 6L axle into the axle hole of the previous piece, pushing it back so the back side is flush with the back of the wheel.

Step 172.2

Find the 7L liftarms that are at the bottom of the flat car. Slide the axle, with the wheel at the back, into the leftmost hole on the back liftarm. Only slide it in a little way.

Step 173

Place a black 2L pin connector between the thin liftarms in front of the axle, and then slide the axle forward so it goes through the pin connector and the front liftarms.

Step 174

There should now be two free axles on the front side of the truck, and one at the back right. Place a wheel on each of these axles, with the widest side next to the truck.

Step 175

Next, we'll couple the flat car to the rest of the train! Place the rest of the train, with the locomotive on the left, in front of you.

Step 176

Push the free pin on the right side of the tender's coupler into the hole on the round plate that extends to the left of the flat car.

Bag 6.

Minifigure Group: Conductor

Assemble the conductor minifigure by placing the torso on the legs, the head on the torso, and the hat on the head. This minifigure has dark blue pants, a white shirt and a gold vest with lots of pockets and a pocket watch. He has a white beard and wears a dark blue hat.

Main Build: Caboose

Group 38.

Step 177

Now we'll build the caboose! Set the rest of the train aside for now. Place a light gray 2x3 plate with a rounded end, horizontally with the rounded end on the right, in front of you.

Step 178.1

Place the right two columns of a light gray 2x3 tile, horizontally, on the previous piece so it overhangs one column to the left.

Step 178.2

Place the rightmost column of a light gray 2x6 plate, horizontally, under the overhanging column of the previous piece.

Step 179.1

Place the rightmost column of a light gray 2x4 tile, horizontally, on the leftmost column of the previous piece so it overhangs two columns to the left.

Step 179.2

Place the right two columns of a light gray 2x4 plate with a rounded end, horizontally with the rounded end on the left, under the overhanging columns of the previous piece.

Step 180

Place a black train wheel holder, vertically and centered vertically, under the second, third, and fourth columns from the left of the assembly. Repeat under the right 2x3 tile. There should be two free columns between these pieces.

Step 181

Place a black 1x4 double inverted slope, vertically and centered vertically, under the assembly and to the left of the left piece from the previous step. Repeat symmetrically on the right side.

Step 182.1

Place a black 1x2 plate with two studs hanging down from one side, horizontally with the side studs at the front, on the front row between the two wheel holders. Place another symmetrically behind the first.

Step 182.2

Place a dark gray 1x2 plate with a bar on one long side, horizontally with the bar at the bottom, on the side studs of each of the previous two pieces.

Step 183.1

Place a dark tan 6x8 plate, horizontally and centered vertically, on the caboose so the left sides are even. The rounded end of one 2x3 plate with a rounded end will extend to the left of this piece.

Step 183.2

Place a dark tan 2x6 plate, vertically, to the right of the previous piece.

Step 184.1

Now we'll start adding the sides of the caboose. Place a brown 1x1 plate with a stud hanging down from one side, with the side stud at the front, on the front two corners of the caboose. Repeat symmetrically on the back side.

Step 184.2

Place a gold 1x1 round plate with a hollow stud on each of the four previous pieces.

Step 184.3

Place a dark blue 1x3 plate, horizontally to the right of the front left piece from the previous step. Repeat symmetrically on the right side. Repeat these two pieces symmetrically on the back side. You'll place a total of four pieces in this step.

Group 39.

Step 185.1

Now we'll make a table where the crew of the train can relax. Place a tan 2x4 brick, vertically and centered vertically and horizontally, on the caboose. There should be four columns to the left and right, and one row in front of and behind it

Step 185.2

Place a white 2x2 tile with a single stud, centered vertically, on the previous piece.

Step 185.3

Place a white 1x2 jumper plate, horizontally, in front of the previous piece. Repeat symmetrically on the back side.

Step 185.4

We'll make a lantern now so the crew can see better in the dark winter nights. Place a black 1x1 round plate on the 2x2 tile with a single stud.

Step 185.5

Place a transparent yellow 1x1 cone on the previous piece.

Step 185.6

Place a black 1x1 round plate on the previous piece.

Step 185.7

The crew might want a nice hot drink. Place a pink mug on each of the two 1x2 jumper plates on the table.

Step 186

Place a brown chair, with the chair back on the left, centered vertically, to the left of the table. Place another symmetrically to the right of the table.

Step 187.1

The caboose is decorated like a Christmas present, complete with ribbons and bows. Now we'll make some of the ribbons! Place a red 1x2x2 tall brick with four studs on one side, horizontally with the side studs at the front, in front of you.

Step 187.2

Place a red 1x2 tile, horizontally, on the top row of side studs on the previous piece.

Step 187.3

Place a red 1x2 left wedge tile, upright with the longest side on the left and the point at the bottom, below the previous piece so the left sides are even. Place a 1x2 right wedge tile symmetrically to the right of the first.

Step 187.4

Repeat steps 187.1-187.3.

Step 187.5

Place one ribbon assembly, horizontally with the tiles at the front, centered horizontally on the front row of the caboose. Repeat symmetrically on the back side with the other assembly.

Step 188

Place a dark blue 1x3 brick, horizontally, to the left of each of the two assemblies we just placed. Repeat symmetrically on the right side. You'll place a total of four pieces in this step.

Step 189

Place a light blue 1x2 plate, horizontally, on the right two studs of the left two pieces from the previous step. Repeat symmetrically on the right side. You'll place a total of four pieces in this step.

Step 190.1

Next, we'll make some hand rails for the tender. Place a light blue 1x1 brick with a recessed stud on one side, with the side stud on the left, in front of you.

Step 190.2

Push the short bar of a gold L-shaped nozzle, with the short bar pointing left and the longest bar pointing down, into the hollow side stud on the left side of the previous piece.

Step 190.3

Place a light blue 1x1 plate on the 1x1 brick with a recessed side stud.

Step 190.4

Repeat steps 190.1-190.3.

Step 190.5

Place one hand rail assembly, with the nozzle on the left, to the left of each of the left two 1x2 plates from step 189. The bottom bar of the nozzle should go into the hollow stud of a 1x1 round plate that's on each of the left corners of the caboose. Repeat symmetrically on the right side.

Step 191.1

Next, we'll add some poinsettias to the tender. Find the two side studs on the front corners of the caboose. Place a green 1x1 round plate with three leaves, with the leaves pointing down, on these two side studs. Repeat symmetrically on the back side.

Step 191.2

Push the short bar of a red short bar with a flower into the hollow stud of each of the four previous pieces.

You will have two red 1x2x3 window frames leftover when you finish this group.

Group 40.

Step 192.1

Assemble two windows by pushing two clear 2x3 window panes into the two leftover red 1x2x3 window frames. The window panes have small pegs on two sides and the window frames have two small holes inside the top and bottom sides for the pegs.

Step 192.2

Place one window, with the pane at the front, centered horizontally on the front row of the caboose. Repeat symmetrically on the back side.

Step 192.3

Assemble four more windows using gold 1x2x3 window frames. Place one of these, with the pane at the front, to the left of the front red window. Repeat symmetrically on the right side. Repeat these two windows symmetrically on the back side. You'll place all four gold 1x2x3 windows in this step.

Step 193.1

Next, we'll build a couple of archways. Place a light blue 1x6 arch brick, vertically, in front of you.

Step 193.2

Place a light blue 1x1 plate under the front and back studs of the previous piece.

Step 193.3

Place a pale 1x1 brick with a recessed stud on one side, with the side stud at the front, under the front piece from the previous step. Repeat symmetrically on the back side.

Step 193.4

Repeat steps 193.1-193.3.

Step 193.5

Place one arch assembly, vertically, to the left of the leftmost window. Repeat symmetrically on the right side.

Step 194.1

Place a light blue 1x2 plate, horizontally, on the front row to the right of the left arch assembly. Repeat symmetrically on the back side. Repeat these two pieces symmetrically on the right side. You'll place a total of four pieces in this step.

Step 194.2

Now we'll continue making the ribbon. Place two red 1x1 plates with a stud sticking up from one side, with the side studs at the front, on the middle two studs on the front row of the caboose. Repeat symmetrically on the back side.

Step 194.3

Place a red 1x2 tile, horizontally, on the side studs of each of the two pairs of pieces from the previous step.

Step 195.1

Now we'll add some tiles on top of the caboose so the roof can be removed. Place a dark blue 1x8 tile, horizontally and centered horizontally, on the front row of the caboose. Repeat symmetrically on the back side.

Step 195.2

Place a brown 1x4 tile with two studs, centered vertically, between the previous two pieces so the left sides are even. Repeat symmetrically on the right side.

Step 196.1

Now we'll make some lanterns for the caboose. Place a transparent yellow 1x1 cone, upside down, in front of you.

Step 196.2

Place a black 1x1 round plate, upside down, on the previous piece.

Step 196.3

Push the short bar of a black L-shaped nozzle, with the short bar pointing up and the longest bar pointing back, into the hollow stud on the bottom of the cone.

Step 196.4

Repeat steps 196.1-196.3 three times.

Step 196.5

Find the two recessed side studs on the front side of the caboose. These are to the left and right sides of the windows. Push the long bar on one of the lanterns, with the cone on top, into each of the hollow, recessed side studs. Repeat symmetrically on the back side.

Step 197.1

Now we'll build the roof of the caboose. Set the rest of the caboose aside for now. Place a white 4x10 plate, upside down and horizontally, in front of you.

Step 197.2

Place a dark blue 1x3 plate, upside down and vertically, on the leftmost column of the previous piece so it overhangs one stud to the front. Place another symmetrically behind the first. Repeat these two pieces symmetrically on the right side. You'll place a total of four pieces in this step.

Step 198.1

We'll make a small assembly now. Place a black 2x6 plate with holes between the studs, horizontally, in front of you.

Step 198.2

Place a black 2x2 plate on the left two columns of the previous piece. Repeat symmetrically on the right side.

Step 198.3

Keeping it horizontal, flip the assembly upside down and place it, centered horizontally and vertically, on the upside down 4x10 plate.

Group 41.

Step 199.1

Keeping the assembly horizontal, flip the roof assembly rightside up. Place a red 2x4 plate, horizontally and centered horizontally and vertically, on the roof. The roof will look like the top of a wrapped present. These red pieces will be part of the bow.

Step 199.2

Place a red 1x2 plate, horizontally and centered horizontally, in front of the previous piece. Repeat symmetrically on the back side.

Step 200.1

Place the back row of a red 2x2 curved slope tile, with the tall side at the back, on the front piece from the previous step. Repeat symmetrically on the back side.

Step 200.2

Place a red 1x2 plate, horizontally, under the front row of the front piece from the previous step. Repeat symmetrically on the back side.

Step 201.1

Place a red 2x2 plate between the two 2x2 curved slope tiles from step 200.1.

Step 201.2

Place a red 1x2 plate with two studs hanging down from one side, vertically and centered vertically, on the leftmost column of the roof. Repeat symmetrically on the right side.

Step 202

Place a red 2x4 tile, horizontally, on the left piece from the previous step so the left sides are even. Repeat symmetrically on the right side.

Step 203.1

Place the left stud of a white 1x4 plate, horizontally, on the front left corner of the roof. Repeat symmetrically on the right side. Repeat these two pieces symmetrically on the back side of the roof for a total of four pieces in this step.

Step 203.2

Place the front row of a white 2x4 curved slope tile, horizontally with the tall side at the back, on each of the front two pieces from the previous step. Repeat symmetrically on the back side.

Step 204.1

Now we'll build the bow on top of the caboose. We'll build the bottom half first. Place a red 2x2 plate in front of you.

Step 204.2

We'll build the bottom of the loops now. Place a red 1x2 tile, vertically, in front of you.

Step 204.3

Place the back stud of a red 1x2 inverted curved slope tile, vertically with the higher stud at the front, under the front stud of the previous piece.

Step 204.4

Repeat steps 204.2-204.3 three times.

Step 204.5

Place the back stud of one loop, vertically with the curved slope tile at the front, on the front left stud of the 2x2 plate. Place the right stud of another loop, horizontally with the curved slope tile on the left, on the back left corner of the 2x2 plate. Continue around the 2x2 plate with the other two loops, placing them so the curved slope tiles face away from the 2x2 plate.

Step 204.6

Now we'll make the top half of the bow. Place a red 2x2 plate in front of you.

Step 204.7

Place the back stud of a red 1x2 curved slope tile, vertically with the tall side at the front, on the front left stud of the previous piece. Place the right stud of another, horizontally with the tall side on the left, behind the previous piece. Continue around the 2x2 plate with two other 1x2 curved slope tiles, just like we did with the bottom half of the loop.

Step 204.8

Place a red 1x1 plate with a curved slope on one side, with the curved slope at the front, under the front stud of the front piece from the previous step. Repeat with the other three 1x2 curved slope tiles.

Step 204.9

Place the top half of the bow on the bottom half.

Step 204.10

Place the bow, centered vertically and horizontally, on the roof of the caboose.

Step 205

Place the rest of the caboose, horizontally, in front of you. Place the roof, horizontally and centered, on top of the caboose.

Step 206

Now we'll finish the ribbon on the left and right ends of the caboose. Place a red 1x2 right wedge tile, upright with the longest side at the front and the point at the bottom, on the front side stud on the left side of the roof. Place a red 1x2 left wedge tile symmetrically behind the previous piece. Repeat the previous two pieces symmetrically on the right side of the roof.

Step 207

Let's add the wheels to the caboose! Push a black train wheel, with the widest side at the back, from the bottom into the front side of each of the two wheel holders on the bottom of the caboose. The longest bar on the wheel should be at the back, and the wheels will audibly click into place. Repeat symmetrically on the back side.

Step 208

Next, we'll add the caboose to the rest of the train! Set the rest of the train, with the locomotive on the left and the flat car on the right, in front of you.

Step 209

Push the free pin on the right side of the flat car's coupler into the hole on the round plate that extends to the left of the caboose.

Group 42.

Step 210

Now we'll make a circle of tracks. LEGO train tracks are completely plastic. They have 2x8 plates running perpendicular to the rails which represent railroad ties. The best way to attach the track together is to place two pieces of track next to each other on a flat surface and align the ends of the two pieces, then push them together until they snap. There are sixteen pieces of track bundled together, this is enough to make a complete circle!

(Optional) Powered Up Instructions.

This set is ready to be powered and run just like a normal model train! It requires one each of a part number 88009 Hub, 88011 Train Motor, and 88010 Remote Control. These are all part of the PoweredUp line. Note that at the time of writing, these products are not available from lego.com.

Step 1

To convert the train, first we will have to remove some parts and set them aside. Uncouple the locomotive and place it, horizontally with the funnel at the left, in front of you. Remove the truck, and remove the vertical 2x8 plate that the truck is mounted on. This plate has a 1x2 slope tile on the front and back rows. We'll reuse this assembly, so set it aside for now.

Step 2.1

Place the removed truck in front of you, with the coupler on the right. Remove the dark tan 4x6 tile with a pin on top. We'll reuse this, so set it aside.

Step 2.2

Remove the 2x2 brick with a 1x2 tile on top that are on the second and third columns from the right of the truck. We won't reuse these pieces.

Step 2.3

Remove the 2x3 plate with a rounded end that the coupler is attached to. We'll reuse this, so set it aside.

Step 3.1

Take off the two train wheel decorations, leaving the 1x2 tiles on top of them. We'll reuse these, so set them aside.

Step 3.2

Remove the front and back wheels, and take out the axles with the remaining two wheels. We'll reuse them, so set them aside.

Step 4

Now, remove the roof from the caboose. Remove the 2x6 plate with two 2x2 plates that are underneath the roof of the tender. We'll reuse this assembly, so set it aside.

Step 5.1

Now we'll start working on the train motor. This piece is a large rectangle with a pin sticking up from the middle and two columns of studs on either side of the pin. There is a cable on one end. Place the train motor, horizontally with the cable on the left, in front of you.

Step 5.2

Place the 2x3 plate with a rounded end with the coupler attached, with the coupler on the right, centered vertically on the right two columns of the previous piece.

Step 6

There are three holes on both the front and back sides of the motor. Push an axle with a wheel through both the left and right holes, then put a wheel on the free end of each axle.

Step 7

Place a train wheel decoration, horizontally, on both the front and back sides of the train motor.

Step 8

Push the center hole of the 2x6 plate with two 2x2 plates that we took off of the caboose onto the pin of the train motor. Rotate it so it's vertical.

Step 9

Fold the cable over to the right so it sits between the two 2x2 plates on the assembly we just placed.

Step 10

Place the 2x8 plate with 1x2 slope tiles we removed from the locomotive, vertically and centered vertically, on the two 2x2 plates.

Step 11

Now we'll place the motor on the locomotive. The locomotive should be horizontally in front of you, with the funnel on the left. Place the train motor assembly under the fourth and fifth columns from the right end of the locomotive. The 1x2 slope tiles should be even with the left end of the cab, just like they were before.

Step 12

We're going to hide the hub inside the tender! This is a good time to make sure the hub has batteries in it. Uncouple the tender from the rest of the train and place it in front of you, with the coupler on the right. There should be a 2x2 round present near the back right corner. Take any toys off of the coupler, as well as the 2x2 round present. We'll reuse this, so set it aside.

Step 13

Now, lift off the center four rows of the tender. This should include a 4x8 plate, two 1x4 fence panels, and two 1x4x3 window frames. The tender should now just have walls at the front, right, and back.

Step 14

Find the hub. This is a 4x8x4 rectangle with two holes on one side, and a button on top near one end. Place this, horizontally with the holes on the left, inside the three walls of the tender.

Step 15

Place the 2x2 round present, centered horizontally, on the back two rows of the tender.

Step 16

Place the locomotive, horizontally with the funnel on the left, in front of you. Attach the cable from the motor into the front hole on the left side of the tender.

Step 17

Remove the back 3L bar that's on the left side of the tender and place the cable between the two clips, then clip the bar back in place so it holds the cable. This will help the cable not get in the way! Couple the tender to the locomotive, and the rest of the cars to the tender. Now you can place the train on the track and control it with the PoweredUP remote!

The remote has seven buttons, two columns of three, and a center button. Each column of buttons has a plus button on one side and a minus button on the other, with a stop button in between. These will speed up, or slow down, the train motor. To sync the remote to the hub, press the center button on the remote at the same time as you press the button on the hub. There are lights on both, and they will flash the same color when pairing is successful, but you can also see if it worked by pushing the plus or minus buttons. The train will only be paired to one of the columns of buttons.

This completes the Holiday Express Train.

Thank you so much for building this set!

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