77005 Knuckles vs Dr. Eggman Egg Crusher Mech

Set adapted by Arturo and tested by Radar.

Engage Sonic toy fans, boys and girls aged 8 plus with thrilling adventures in this Knuckles vs. Dr. Eggman Egg Crusher Mech (77005) LEGO® Sonic the Hedgehog™ set, full of features and functions. This gift for gamers includes a hands-on posable toy mech with an opening cockpit, rotating 6-stud launcher, a massive spinning claw and articulated limbs for interactive play. 2 characters, Knuckles the Echidna and Dr. Eggman, are ready for role-play fun, plus, there's a hoverboard, a catapult toy with 2 boulders, 3 Gold Rings and 2 Chaos Emeralds.

The packaging captures the energetic atmosphere of a LEGO Sonic the Hedgehog battle. The front of the box shows Dr. Eggman piloting the large red, black, white, and dark gray Egg Crusher Mech as it advances across a bright mountainous landscape. The mech has a transparent orange cockpit dome, broad articulated legs, a large black claw on one arm, and a rotating launcher on the other. Knuckles rides his white, red, and green hoverboard in front of the mech, while yellow Gold Rings, brown boulders, and small terrain details surround the action. The background has a blue sky, white clouds, green hills, distant rocky mountains, and curved tracks that evoke the Sonic video games. In the top left corner, we have the classic LEGO logo, followed by the Sonic the Hedgehog logo. The front also displays the set's age, number, name, and piece count. The left of the box continues the same colorful Sonic the Hedgehog scenery and branding, with a picture of Dr. Eggman and Knuckles. The back of the box shows another view of the confrontation between Knuckles and Dr. Eggman and highlights the set's play features. Namely, it shows the mech bending and posing its articulated arms and legs, opening its transparent orange cockpit so Dr. Eggman can sit inside, spinning its large claw, and firing transparent orange studs from its rotating 6-stud launcher. It also shows Knuckles using the hoverboard, collecting the 3 Gold Rings and 2 Chaos Emeralds, and operating the catapult to launch the boulders toward the mech. In the top left corner, we have the LEGO logo, with the Sonic the Hedgehog logo to the right. The right side of the box has a warning in several different languages that states that the set contains small parts and is therefore not recommended for children younger than 3 years old. The top of the box has the LEGO and Sonic the Hedgehog logos, the figures included in this set (Knuckles and Dr. Eggman), as well as a picture of Knuckles's minifigure at a 1:1 scale. The bottom of the box contains the barcode, set number, recycling information, and SEGA, Sonic the Hedgehog, and LEGO copyright and trademark details.

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. Here are some definitions in case the builder or helper is not familiar with LEGO Technic™.

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

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

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

Lift-arms - A lift-arm is a basic structural element, like 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 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/77005), 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 4 numbered bags and 1 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 343 pieces and 86 building steps. The set has NO stickers!

Book 1, bag 1 (5 groups of bricks)

Knuckles, Knuckles’s hoverboard, Catapult

Group 1: page 4
Group 2: steps 1-8
Group 3: steps 9-14
Group 4: steps 1-7
Group 5: steps 8-9

Book 1, bag 2 (9 groups of bricks)

Dr. Eggman, Mech torso

Group 6: page 17

Group 7: steps 1-7
Group 8: steps 8-9
Group 9: steps 10-16
Group 10: steps 17-23
Group 11: steps 24-30
Group 12: steps 31-33
Group 13: steps 34-40
Group 14: steps 41-45

Book 1, bag 3 (5 groups of bricks)

Mech’s thighs, Mech’s feet

Group 15: step 46
Group 16: step 47
Group 17: steps 48-50
Group 18: steps 51-53
Group 19: steps 54-64

Book 1, bag 4 (4 groups of bricks)

Mech’s left arm, Mech’s claw, Mech’s right arm, Mech’s gun arm

Group 20: steps 65-74
Group 21: step 75
Group 22: steps 76-84
Group 23: steps 85-86

Building Instructions:

Book 1, bag 1.

Group 1 – Knuckles

Page 4

Let’s begin by assembling Knuckles. Locate 1 red pair of legs with bright green knee stripes and bright light orange lower legs, one red torso with white crescent moon, red arms, and white hands, and 1 red minifigure head with light nougat face, and black nose and assemble the minifigure, so that his nose faces to the front. Then, attach 1 white minifigure glove with spikes to each of Knuckles’s hands. Knuckles is complete!

Additionally, let’s assemble 3 rings. Place 3 transparent clear 2x2 inverted radar dishes in front of you. Then, attach 1 yellow 1x1 round plate with upright 3x3 ring on top of each of the 3 ppps.

Group 2 – Knuckles's hoverboard

Step 1

Let's build Knuckles' hoverboard. Place 1 bright light orange 2x6 plate vertically in front of you. Then, place 1 light bluish gray 1x2 plate with 2x2 upright side studs horizontally on the back row of the ppp, so that its side studs face to the back.

Step 2

Rotate 1 white 3x4 trapezoidal plate with 1x2 cutout vertically, so that its narrow side faces to the front. Place its front row on top of the 4th row from the front, so that its cutout surrounds the ppp.

Step 3

Place 1 green 2x2 plate in front of the ppp. Then, place 1 green 1x2 plate with 2x2 upright side studs horizontally in front of the ppp, so that its side studs face to the front.

Step 4

Rotate 1 red 2x2 tile with 2 studs so that its studs face to the back. Place its front row on top of the ppp.

Step 5

Locate 2 red 2x2 tiles with 2 studs. Place the first one behind the ppp, so that its studs face to the front. Next, place the second one behind the ppp, so that its studs face to the back.

Step 6

Place 1 dark bluish gray 1x2 plate with bars on opposite long edges horizontally on top of the ppp, so that its bars face to the back. Then, place 1 light bluish gray 1x2 slope tile horizontally on top of the ppp, so that it slopes to the front.

Step 7

Attach 1 dark bluish gray 2x2 round tile with open stud upright to the back-facing side studs. Then, attach 1 transparent light blue 1x1 cone brick upright to the ppp.

Step 8

Find 2 transparent light blue 2x2 inverted radar dishes. Attach the first one under the 1st and 2nd rows from the front of the hoverboard build. Take the second one and repeat symmetrically on the back.

Group 3 – Knuckles's hoverboard (continued)

Step 9

We need to build the hoverboard's front. Rotate 1 white 2x4 double inverted slope brick with 2x2 cutout horizontally upright, so that its anti-studs face to the back and it slopes to the left and to the right. Then, attach 1 white 2x2 brick to the front-facing side studs of the ppp, so that it is centered horizontally.

Step 10

Grab 2 white 1x1 plates. Attach the first one to the left of the bottom row of the ppp. Take the second one and repeat symmetrically on the right.

Step 11

Locate 3 white 1x2 rounded plates with open studs. Attach the first one horizontally upright above the ppp, so that it overhangs to the right by 1 column. Then, rotate it slightly (approximately 30 degrees) counterclockwise. Take the second one and repeat symmetrically on the left. Place the last one horizontally upright on the bottom row of front-facing side studs, so that it is centered horizontally.

Step 12

Find 2 white 2x2 curved slope corner tiles with recessed stud. Rotate the first one upright, so that its anti-studs face to the back and it slopes to the left and to the top. Place its bottom right corner on top of the leftmost column of the ppp. Take the second one and repeat symmetrically on the right. Then, place 1 white 1x2 tile horizontally upright on top of the 2 ppps.

Step 13

Grab 2 white light bulbs with bar. Insert the first one into the left front-facing open side stud. Take the second one and repeat symmetrically on the right.

Step 14

Bring back the hoverboard build, so that its side studs face to the front. Attach the back-facing anti-studs of the hoverboard front to the hoverboard's front-facing side studs. The hoverboard is complete!

Group 4 – Catapult

Step 1

Let's build a catapult. Place 1 dark tan 2x8 plate vertically in front of you.

Step 2

Place 1 light bluish gray 1x2 grille tile horizontally on the front row of the ppp. Then, place 1 dark orange 2x4 jumper plate vertically behind the ppp.

Step 3

Place 1 dark bluish gray 4x4 round plate behind the ppp, so that it overhangs to the left and right by 1 column, as well as by 1 row to the back.

Step 4

Attach 1 light bluish gray 2x2 plate with pinholes underneath the build, so that it is centered vertically and its pinholes face to the left and right.

Step 5

Locate 2 light bluish gray 2L pins. Insert the first one into the left-facing pinhole of the ppp, so that it protrudes to the left. Take the second one and repeat symmetrically on the right.

Step 6

Find 3 dark bluish gray 1x2 panels. Place the first one horizontally on the back row, so that its flat edge faces to the back. Place the second one vertically on the leftmost column of the 2nd and 3rd rows from the back, so that its panel faces to the left. Take the last one and repeat symmetrically on the right.

Step 7

Grab 2 dark bluish gray 1x2 tiles with 1x2 upright technic liftarm. Slide the top hole of the first one onto the left-facing pin. Take the second one and repeat symmetrically on the right.

Group 5 – Catapult (continued)

Step 8.1

Let’s build the catapult’s terrain. Place 1 lime 6x6 round plate in front of you, so that its studs form rows and columns.

8.2 Locate 2 green 1x1 round plates with upright leaf. Place the first one on the leftmost column of the 2nd row from the front, so that its leaf faces to the left. Place the second one on the 2nd column from the right of the 3rd row from the front, so that its leaf faces to the right.

8.3 Find 2 sand green 1x2 curved slope tiles. Rotate the first one vertically, so that it slopes to the front. Place its back row on top of the ppp. Rotate the second one vertically, so that it slopes to the back. Place its front row on top of the other 1x1 round plate with upright leaf.

8.4 The terrain is complete. Bring back the catapult, so that it is vertical with its round end to the back. Place its base (made of the 2 dark bluish gray 1x2 tiles with 1x2 upright technic liftarms) behind the 2 ppps.

Step 9.1

We need to assemble two identical sub-builds for the boulders. You can choose to build them simultaneously or one at a time. Let's begin with the first one. Place 1 dark tan 4x4 boulder bottom in front of you. Then, attach 1 tan 1x1 cone brick in the middle of it.

9.2 Place 1 light bluish gray 1x1 round plate on top of the ppp. Next, place 1 tan 1x1 cone brick on top of the ppp.

9.3 Close the boulder by placing 1 dark tan 4x4 boulder top on top of the ppp.

9.4 The first boulder is complete. You can use it as ammunition for the catapult. Be careful not to aim or shoot at anyone's face.

9.5 If you decided to build them separately, build a second boulder by repeating steps 9.1 to 9.3.

Book 1, bag 2

Group 6 – Dr. Eggman

Page 17

Let's assemble Dr. Eggman. Locate 1 black pair of long legs with silver squares, 1 red body and head combo with dark orange moustache, blue eyes, silver glasses, and coral nose, and 1 pair of long red arms with 1L pins with white hands, and assemble the minifigure. Make sure that the arms bend to the back and the hands face to the front. Dr. Eggman is complete!

Group 7 – Mech torso

Step 1

Let's build Dr. Eggman's Crusher Mech, starting with the torso. Place 1 light bluish gray 1x2 plate with 2x2 upright side studs horizontally in front of you, so that its side studs face to the back. Then, place the back row of 1 dark bluish gray 2x2 brick with balls on opposite sides on top of the ppp, so that it overhangs to the front by 1 row and its balls face to the left and right.

Step 2

Place 1 light bluish gray 1x2 plate with 2x2 upright side studs horizontally under the overhang of the ppp, so that its side studs face to the front.

Step 3

Attach 1 black 1x2 slope tile horizontally upright to the bottom row of front-facing side studs, so that it slopes to the bottom.

Step 4

Place 1 black 2x4 double inverted slope brick with 2x2 cutout horizontally on top of the build, so that it slopes to the left and right.

Step 5

Locate 2 light bluish gray 1x2 plates with 2x2 upright side studs. Place the first one horizontally on the back row of the ppp, so that its side studs face to the back. Take the second one and repeat symmetrically on the front. Then, place 2 white 1x2 jumper plates vertically, one to the right of the other, on top of the 2 ppps.

Step 6.1

Find 2 black 2x3 inverted slope bricks. Place the first one horizontally on the leftmost column, so that it slopes to the left and it overhangs to the left by 2 columns. Take the second one and repeat symmetrically on the right.

6.2 Grab 2 light bluish gray 1x2 plates with 2x2 upright side studs. Place the first one horizontally on the 2 rightmost columns of the back row of the ppp, so that its side studs face to the back. Take the second one and repeat symmetrically on the front.

6.3 Locate 2 light bluish gray 1x2 plates with 2x2 upright side studs and repeat the previous step symmetrically on the left.

6.4 Find 2 white 2x2 curved slope tiles. Rotate the first one so that it slopes to the right. Place its leftmost column on top of the rightmost column of the 2 ppps. Take the second one and repeat symmetrically on the right.

Step 7

Grab 2 black 4x4 plates with 3x3 inverted curved cutout. Rotate the first one upright so that its anti-studs face to the back and its right angle faces to the top and to the right. Attach its 2 leftmost columns to the bottom row of the 2 leftmost columns of front-facing side studs. Take the second one and repeat symmetrically on the right.

Group 8 – Mech torso (continued)

Step 8.1

We need to assemble 2 identical sub-builds. You can choose to build them simultaneously or one at a time. Let's begin with the first one. Place 1 black 1x2 log brick horizontally in front of you. Then, place 1 dark bluish gray 1x2 rounded plate with open studs horizontally on top of the ppp.

8.2 Locate 2 light bluish gray 1x1 plates with 1x2 upright side studs. Place the first one on the leftmost column of the ppp, so that its side studs face to the left. Take the second one and repeat symmetrically on the right.

8.3 Place 1 dark bluish gray 1x2x1 1/3 brick with rotation joint horizontally on top of the 2 ppps, so that the rotation joint faces to the front.

8.4 Locate 2 red 1x1 plates with 1x1 upright side studs. Place the first one on the leftmost column of the ppp, so that its side stud faces to the left. Take the second one and repeat symmetrically on the right.

8.5 Place 1 dark bluish gray 1x2 plate with door rail horizontally on top of the 2 ppps, so that its door rail faces to the back.

8.6 Place 1 black 1x2 slope tile horizontally on top of the ppp, so that it slopes to the back.

8.7 The sub-build is complete. Bring back the main build, so that its 4x4 plates with 3x3 inverted curved cutout face to the front. Place the sub-build vertically on the main build's leftmost column, so that the ppp slopes to the right and its rotation joint faces to the left.

8.8 If you decided to build them separately, assemble a second sub-build by repeating steps 8.1 to 8.6. Place it symmetrically on the right.

Step 9

Locate 2 red 2x2 plates. Place the first one upright above the 2 leftmost columns of the left 4x4 plate with 3x3 curved cutout, so that its top right corner overhangs. Take the second one and repeat symmetrically on the right.

Group 9 – Mech torso (continued)

Step 10

Flip the mech's torso 90 degrees from back to front, so that the 2 ppps face down and its balls are to the back and face to the left and right. Then, place 1 black 1x2 slope tile horizontally on the back row, so that it slopes to the back.

Step 11

Find 2 black 4x4 plates with 3x3 inverted curved cutout. Rotate the first one so that its right angle faces to the front and to the right. Place its rightmost column behind the leftmost column of the ppp. Take the second one and repeat symmetrically to the right. Then, place 1 red 4x8 plate horizontally in front of the 2 ppps.

Step 12

Place 1 black 3x4 tripled curved slope tile horizontally in front of the 1x2 slope tile on the back row, so that it slopes to the left, back, and right.

Step 13

Place 1 red 2x3 brick vertically in front of the ppp, so that it is centered horizontally.

Step 14

Grab 2 black 1x3 plates. Place the first one vertically to the left of the ppp. Take the second one and repeat symmetrically on the right. Locate 2 red 1x2 plates. Place the first one vertically on the 2 back rows of the ppp. Take the second one and repeat symmetrically on the left.

Step 15

Rotate 1 red 2x3 right curved sloped wedge tile horizontally, so that it slopes to the left. Place its rightmost column on top of the ppp. Then, take 1 red 2x3 left curved sloped wedge tile and repeat symmetrically on the right.

Step 16

Locate 2 red 1x3 curved slope tiles. Place the first one horizontally in front of the ppp, so that it slopes to the right. Take the second one and repeat symmetrically on the left.

Group 10 – Mech torso (continued)

Step 17

We need to assemble a small sub-build. Place 1 black angled axle connector in front of you, so that one of its axle connectors faces to the right, the other one to the front left, and its pinhole faces to the top and to the bottom. Then, insert the axle of 1 blue 2L pin axle into the right-facing axle connector, so that its pin protrudes to the right.

Step 18

Rotate 1 black 1x2 brick with 2 pinholes vertically. Insert the ppp into the front left-facing pinhole.

Step 19

Rotate 1 black angled axle connector, so that one of its axle connectors faces to the right, the other one to the front left, and its pinhole faces to the top and to the bottom. Then, insert the axle of 1 dark bluish gray 1L axle with 2L pin into the right-facing axle connector, so that its 2L pin protrudes to the right. Then, slide 1 black 1x1 technic spacer (which looks like a ring) onto the right-facing pin, so that the pin protrudes to the right by 1L. Lastly, insert this protruding pin into the back left-facing pinhole of the sub-build, so that the angled axle connector is to the back and to the left of the other angled axle connector and its axle hole faces to the front left.

Step 20

Insert 1 black 2L axle into each of the front left-facing axle connectors.

Step 21

Attach 1 transparent light blue 1x1 cone brick to each of the 2 ppps.

Step 22

Attach 1 black 1x1 round tile upright to each of the 2 ppps.

Step 23

The sub-build is complete. Bring back the mech's torso, so that its balls are to the back and face to the left and right and its side with curved slope tiles faces to the top. Place the sub-build's 1x2 brick with pinholes vertically on top of the 4th column from the left of the 2 front rows.

Group 11 – Mech torso (continued)

Step 24

We need to assemble another small sub-build. Place 1 black angled axle connector in front of you, so that one of its axle connectors faces to the left, the other one to the front right, and its pinhole faces to the top and to the bottom. Then, insert the axle of 1 blue 2L pin axle into the left-facing axle connector, so that its pin protrudes to the left.

Step 25

Rotate 1 black 1x2 brick with 2 pinholes vertically. Insert the ppp into the front right-facing pinhole.

Step 26

Rotate 1 black angled axle connector, so that one of its axle connectors faces to the left, the other one to the front right, and its pinhole faces to the top and to the bottom. Then, insert the axle of 1 dark bluish gray 1L axle with 2L pin into the left-facing axle connector, so that its 2L pin protrudes to the left. Then, slide 1 black 1x1 technic spacer (which looks like a ring) onto the left-facing pin, so that the pin protrudes to the left by 1L. Lastly, insert this protruding pin into the back right-facing pinhole of the sub-build, so that the angled axle connector is to the back and to the right of the other angled axle connector and its axle hole faces to the front and to the right.

Step 27

Insert 1 black 2L axle into each of the front right-facing axle connectors.

Step 28

Attach 1 transparent light blue 1x1 cone brick to each of the 2 ppps.

Step 29

Attach 1 black 1x1 round tile upright to each of the 2 ppps.

Step 30

The sub-build is complete. Bring back the mech's torso, so that its balls are to the back and face to the right and left and its side with curved slope tiles faces to the top. Place the 1x2 brick with pinholes of the sub-build vertically on top of the 4th column from the right of the 2 front rows, to the right of the previous sub-build.

Group 12 – Mech torso (continued)

Step 31

Flip the torso upside down from left to right, so that the sub-builds face to the bottom and the mech's balls are to the back and face to the left and right. Locate 2 black 1x1 quarter round tiles. Place the first one on the leftmost column of the front row, so that its curved edge faces to the back left. Take the second one and repeat symmetrically on the right. Find 2 red 1x1 plates with 1x1 upright side studs. Place the first one behind the ppp, so that its side stud faces to the left. Take the second one and repeat symmetrically on the left.

Step 32

Place 1 black 3x4 tripled curved slope tile horizontally in front of the 1x2 slope tile on the back row, so that it slopes to the left, back, and right.

Step 33

Place 1 black 1x2 log brick horizontally in front of the ppp, so that it is centered horizontally. Grab 2 black 2x2 slope bricks. Rotate the first one so that it slopes to the left. Place its back row to the left of the ppp. Take the second one and repeat symmetrically on the right.

Group 13 – Mech torso (continued)

Step 34.1

We need to assemble a small sub-build. Place 1 light bluish gray 1x6 plate horizontally in front of you. Then, place 1 light bluish gray 1x2 plate with 2x2 upright side studs horizontally on top of the ppp, so that it is centered horizontally and its side studs face to the front.

34.2 Grab 2 dark bluish gray 1x1 round plates with horizontal bar. Place the first one to the left of the ppp, so that its bar faces to the front. Take the second one and repeat symmetrically on the right.

34.3 Place 1 red 1x4 plate horizontally on top of the 3 ppps.

34.4 The sub-build is complete. Place it in front of the 2 black 2x2 slope bricks, so that the sub-build is centered horizontally and its side studs and bars face to the front.

Step 35

Rotate 1 dark bluish gray 2x3 plate vertically. Place its front row on top of the sub-build from the previous step, so that it is centered horizontally. Then, place 1 red 1x2 grille tile horizontally on top of the back row of the ppp.

Step 36

Locate 2 red 3x4 mudguards with curved front. Rotate the first one so that it slopes to the left. Place its back row to the left of the ppp. Take the second one and repeat symmetrically on the right. These will make the mech’s chest.

Step 37

Place 1 red 1x4 plate horizontally on top of the back studs of the 2 ppps. Then, place 1 red 1x2 plate horizontally in front of the ppp, so that it is centered horizontally.

Step 38

Find 2 black 1x1 round plates with open studs. Place the first one to the left of the ppp. Take the second one and repeat symmetrically on the right.

Step 39

Place 1 transparent clear 1x1 round tile on top of each of the 2 ppps. Then, place the front row of 1 black 2x2 round tile with stud between the 2 ppps.

Step 40

Place 1 transparent clear 2x2 inverted radar dish on top of the ppp.

Group 14 – Mech torso (continued)

Step 41.1

We need to assemble a small sub-build. Place 1 dark bluish gray 4x4 round plate in front of you, so that its studs form rows and columns. Then, place 1 dark bluish gray 1x2 plate with clips on long edge horizontally on the back row of the ppp, so that its clips face to the back.

41.2 Place 1 transparent light blue 2x2 dome brick in front of the ppp.

41.3 Grab 3 dark bluish gray 1x2 rounded plates with open studs. Place the first one vertically to the left of the ppp. Take the second one and repeat symmetrically on the right. Then, place the last one horizontally on the front row of the sub-build.

41.4 Locate 4 black 2x2 round corner tiles. Rotate the first one so that its long curved edge faces to the front left. Place its rightmost column on top of the leftmost column of the ppp. Take the second one and repeat symmetrically on the right. Then, take the remaining 2 and repeat symmetrically on the back.

41.5 The sub-build is complete. Bring back the mech’s torso. Rotate it so that it is vertically upright, so that its chest faces to the back and its balls are to the bottom and face to the left and right. Rotate the sub-build upright, so that its antistuds face to the back and its clips face to the top. Attach the sub-build to the top 4 rows of front-facing side studs of the mech’s torso.

Step 42

Find 2 light bluish gray 1L pins with stud. Insert the first one into the top left front-facing pinhole. Take the second one and repeat symmetrically on the right. Then, insert 1 transparent red jewel into the ppp. Next, take 1 transparent dark blue jewel and repeat symmetrically on the left.

Step 43

Rotate the torso 180 degrees on the horizontal plane, so that the 2 ppps face to the back. Then, place 1 red 2x2 short curved slope brick on top of the 2 front rows, so that it slopes to the back.

Step 44

Rotate 1 black 3x6 curved windscreen horizontally, so that its long curved edge faces to the front. Place its front row on top of the ppp, so that it is centered horizontally.

Step 45

Rotate 1 transparent orange 6x6 inverted dish with handle vertically upright, so that its curved side faces to the back and its handle faces to the bottom. Attach its handle to the clips located on the back of the mech's torso. Then, you can close the mech's cockpit by angling the ppp to the front and to the bottom.

Book 1, bag 3

Group 15 – Mech's thighs

Step 46.1

We need to assemble two identical sub-builds for the mech's thighs. You can choose to build them simultaneously or one at a time. Let's begin with the first one. Place 1 black 1x2 thin technic liftarm vertically in front of you.

46.2 Insert 1 red 2L axle vertically upright into each of the 2 axle holes of the ppp, so that they protrude to the top.

46.3 Locate 2 black axle connectors with sockets. Slide the round axle connector of the first one onto the front top-facing axle, so that its socket faces to the front. Take the second one and repeat symmetrically on the back.

46.4 Attach 1 black 1x2 thin technic liftarm vertically to the top-facing axles.

46.5 Insert 1 red 2L axle into the front right-facing axle hole, so that it protrudes to the right. Then, attach 1 light bluish gray 2x2 truncated cone brick to the ppp.

46.6 The sub-build is complete. Bring back the mech's torso, so that its chest faces to the top and its balls are to the front and face to the left and right. Rotate the sub-build so that the ppp is facing to the top. Then, attach its back-facing socket to the mech's left-facing ball.

46.7 If you decided to assemble the sub-builds one at a time, build the second one by repeating steps 46.1 to 46.5 and attach it to the mech symmetrically on the right.

Group 16 – Mech’s feet

Step 47

We need to assemble two identical sub-builds for the mech’s feet. You can choose to build them simultaneously or one at a time. Let’s begin with the first one. Place 1 black 2x4 plate horizontally in front of you.

Group 17 – Mech’s feet (continued)

Step 48

Place 1 light bluish gray 2x4 plate vertically on top of the ppp, so that it is centered horizontally and vertically and it overhangs to the front and to the back by 1 row.

Step 49

Rotate 1 black 2x4 trapezoidal plate horizontally, so that its narrow side faces to the back. Place its front row under the back overhang of the ppp, so that it is centered horizontally.

Step 50

Locate 2 dark bluish gray 2x2 corner tiles with cut corner. Rotate the first one so that its cut corner faces to the back and to the left. Place its rightmost column on top of the leftmost column of the back row of the ppp. Take the second one and repeat symmetrically on the right.

Group 18 – Mech’s feet (continued)

Step 51

Place 1 black 2x4 plate vertically on top of the 4 back rows of the build. Note that its back row will lie on top of the 2 ppps and will not be attached to any studs. Then, find 2 dark bluish gray 1x2 curved slope bricks. Place the first one vertically to the left of the 2 front rows of the ppp, so that it slopes to the left. Take the second one and repeat symmetrically on the right.

Step 52

Rotate 1 black 2x3 right wedge plate vertically, so that its angled side faces to the front and to the left. Place its back right corner under the leftmost column of the overhang on the front row. Take 1 black 2x3 left wedge plate and repeat symmetrically to the right.

Step 53

Place 1 dark bluish gray 2x3 curved slope tile vertically on top of the 3 front rows, so that it slopes to the front.

Group 19 – Mech's feet (continued)

Step 54

Let's build the ankle. Place 1 dark bluish gray 1x2 rounded plate with open studs horizontally in front of you. Then, place 1 white 1x2 plate horizontally on top of the ppp.

Step 55

Place 1 dark bluish gray 1x2 plate with 2x2 upright tile horizontally on top of the ppp, so that the anti-studs of the inverted tile face to the back.

Step 56

Find 2 light bluish gray 1x2 plates with 1x2 upright side studs. Rotate the first one vertically, so that its side studs face to the left. Place its back row under the leftmost column, so that it has one exposed row to the front and its side studs face to the left. Take the second one and repeat symmetrically on the right.

Step 57.1

Place 1 dark bluish gray 1x2 brick with pinhole and liftarms horizontally on top of the front rows of the 2 ppps, so that its liftarms face to the front.

57.2 Slightly insert 1 red 2L axle into the left-facing axle hole of the left liftarm of the ppp, so that it protrudes mostly to the left.

57.3 Align the axle hole of one black technic ball joint to the right of the ppp. Then, push the red 2L axle into the ball joint, so that it also goes into the opposite liftarm.

Step 58

Find 2 dark azure 1x2 plates with 1x2 side studs hanging down. Rotate the first one vertically, so that its side studs face to the left. Place it vertically on the leftmost column. Take the second one and repeat symmetrically on the right.

Step 59

Place 1 red 2x2 triple slope brick on top of the 2 ppps, so that it slopes to the left, front, and right. Then, place 1 yellow 1x2 tile with black danger stripes horizontally on top of the ppp.

Step 60

Place 1 dark bluish gray 1x2 rounded plate with open studs horizontally under the back row of the ankle build. Then, place 1 dark bluish gray 1x2 plate with 2x2 upright tile horizontally under the ppp, so that the anti-studs of the inverted tile face to the back.

Step 61

Bring back the foot, so that it is vertical and it slopes to the left, front, and right. Rotate the ankle build so that its ball faces to the top, the anti-studs of the ppp face to the bottom, and the 1x2 tile faces to the front. Attach the ankle to the top of the foot.

Step 62

Rotate 1 red 2x3 left wedge plate vertically upright, so that its antistuds face to the left and its angled side faces to the front and to the top. Attach its 2 bottom rows of its back column to the front column of right-facing side studs. Then, attach 1 red 2x3 right wedge plate vertically upright symmetrically to the back.

Lastly, grab 1 red 2x3 left wedge plate and 1 red 2x3 right wedge plate and repeat symmetrically on the left.

Step 63

Locate 2 black 2x2 round tiles with hollow stud. Attach the first one upright to the 2 bottom rows of the 2 ppps. Take the second one and repeat symmetrically on the right. Then, attach 1 transparent light blue 1x1 round tile to each of the 2 ppps.

Step 64

The foot is complete. If you decided to assemble them separately, build a second one by repeating steps 47 to 63. Place them in front of you, one to the right of the other, so that they slope to the left, front, and to the right. Bring back the mech’s torso, so that it is vertically upright, its chest faces to the front and the sockets of its thighs face to the bottom. Attach each foot to each of the mech’s thighs. Once both feet are attached, you should be able to stand the mech in a stable position.

Book 1, bag 4

Group 20 – Mech’s left arm

Step 65

Let’s build the mech’s left arm. Place 1 black 2x2 brick with pinholes and half vertical rotation joint ball in front of you, so that its pinhole faces to the left and right and its joint ball faces to the back. Then, rotate 1 dark bluish gray rotation joint ball with perpendicular pins vertically, so that its pins face to the back and to the right. Insert its right-facing pin into the left-facing half of the vertical rotation joint ball of the ppp.

Step 66

Place 1 dark bluish gray 2x3 plate vertically under the build, so that it has 1 exposed row to the front.

Step 67

Place 1 dark bluish gray 1x2 rounded plate with open studs horizontally on the 2nd row from the front. Then, locate 2 black 1x1 plates with 1x2 upright side studs. Place the first one behind the left column of the ppp, so that its side studs face to the left. Take the second one and repeat symmetrically on the right.

Step 68.1

We need to assemble a small sub-build. Place 1 black 1x2 brick with axle hole horizontally in front of you, so that its axle hole faces to the front and back. Then, insert 1 red 2L axle into the front-facing axle hole of the ppp, so that it protrudes to the front by 1L.

68.2 Rotate 1 black angled technic axle connector so that one of its connectors faces to the back, the other one faces to the front left, and its pinhole faces to the top and to the bottom. Slide its back-facing axle connector onto the ppp.

68.3 Insert the pin of 1 tan 2L pin axle into the bottom-facing pinhole of the ppp, so that its axle faces to the bottom.

68.4 Rotate 1 black 2x3 plate with half circle with hole vertically, so that its hole faces to the front. Then, place it under the build, so that the ppp goes through its hole and it protrudes slightly to the bottom.

68.5 The sub-build is complete. Bring back the mech’s arm, so that its pin faces to the back. Place the back row of the sub-build on top of the front row of the mech’s arm, so that it overhangs to the front by 2 rows. Note that we will not consider this overhang when counting rows and columns.

Step 69

Place 1 red 2x3 slope brick vertically on top of the build, so that it slopes to the front. Then, place 1 red 1x2 jumper plate horizontally on top of the ppp. Lastly, place 1 black 1x1 pyramid slope tile on top of the ppp.

Step 70

Place 1 black 1x1 plate with 1x2 upright side studs under the back right corner of the build, so that its side studs face to the right, creating a 1x4 right-facing surface of side studs.

Step 71

Locate 2 red 1x2 plates with slope tile and stud. Attach the first one vertically upright to the side studs of the ppp, so that it slopes to the bottom. Take the second one and repeat symmetrically above. Then, Attach 1 transparent light blue 1x2 plate vertically upright to the 2 ppps. Continue by attaching 1 red 1x2 jumper plate vertically upright to the ppp. Lastly, attach 1 black 1x1 pyramid slope tile to the ppp.

Step 72

Place 1 black 1x1 plate with 1x2 upright side studs under the back left corner of the build, so that its side studs face to the left, creating a 1x4 left-facing surface of side studs.

Step 73

Locate 2 red 1x2 plates with slope tile and stud. Attach the first one vertically upright to the side studs of the ppp, so that it slopes to the bottom. Take the second one and repeat symmetrically above. Then, place 1 transparent light blue 1x2 plate vertically upright to the 2 ppps. Continue by attaching 1 red 1x2 jumper plate vertically upright to the ppp. Lastly, attach 1 black 1x1 pyramid slope tile to the ppp.

Step 74

The left arm sub-build is complete. Bring back the standing mech, so that its chest faces to the front. Attach the back-facing pin of the arm to the right-facing rotation joint of the mech until you hear a click, rotate it so that the arm's free axle connector faces to the front and slightly to the bottom.

Group 21 – Mech's claw

Step 75

Let's build the mech's claw. Hold 1 tan 2L pin axle vertically upright, so that its axle faces to the top. Then, slide 1 light bluish gray 2L pin connector onto the pin of the ppp. Then, insert the pin of 1 tan pin axle into the bottom pinhole of the ppp, so that its axle faces to the bottom. Slide 1 light bluish gray axle connector with 3 axles onto the axle of the ppp. The orientation of its 3 axles is not relevant. Then, slide 1 dark bluish gray 2L axle connector onto each of the 3 axles of the ppp. Lastly, insert the axle of 1 black curved claw into each of the 3 ppps, so that the claws face to the bottom. Insert the claw's top-facing axle into the front facing axle connector of the mech's left arm.

Group 22 – Mech’s right arm

Step 76

Let’s build the mech’s right arm. Place 1 black 2x2 brick with pinholes and half vertical rotation joint ball in front of you, so that its pinhole faces to the right and left and its joint ball faces to the back. Then, rotate 1 dark bluish gray rotation joint ball with perpendicular pins vertically, so that its pins face to the back and to the right. Insert its left-facing pin into the right-facing half of the vertical rotation joint ball of the ppp.

Step 77

Place 1 dark bluish gray 2x3 plate vertically under the build, so that it has 1 exposed row to the front.

Step 78

Place 1 dark bluish gray 1x2 rounded plate with open studs horizontally on the 2nd row from the front. Then, locate 2 black 1x1 plates with 1x2 upright side studs. Place the first one behind the right column of the ppp, so that its side studs face to the right. Take the second one and repeat symmetrically on the left.

Step 79.1

We need to assemble a small sub-build. Place 1 black 1x2 brick with axle hole horizontally in front of you, so that its axle hole faces to the front and back. Then, insert 1 red 2L axle into the front-facing axle hole of the ppp, so that it protrudes to the front by 1L.

79.2 Rotate 1 black angled technic axle connector so that one of its connectors faces to the back, the other one faces to the front right, and its pinhole faces to the top and to the bottom. Slide its back-facing axle connector onto the ppp.

79.3 Insert the pin of 1 tan 2L pin axle into the bottom-facing pinhole of the ppp, so that its axle faces to the bottom.

79.4 Rotate 1 black 2x3 plate with half circle with hole vertically, so that its hole faces to the front. Then, place it under the build, so that the ppp goes through its hole and it protrudes slightly to the bottom.

79.5 The sub-build is complete. Bring back the mech’s arm, so that its pin faces to the back. Place the back row of the sub-build on top of the front row of the mech’s arm, so that it overhangs to the front by 2 rows. Note that we will not consider this overhang when counting rows and columns.

Step 80

Place 1 red 2x3 slope brick vertically on top of the build, so that it slopes to the front. Then, place 1 red 1x2 jumper plate horizontally on top of the ppp. Lastly, place 1 black 1x1 pyramid slope tile on top of the ppp.

Step 81

Place 1 black 1x1 plate with 1x2 upright side studs under the back left corner of the build, so that its side studs face to the left, creating a 1x4 left-facing surface of side studs.

Step 82

Locate 2 red 1x2 plates with slope tile and stud. Attach the first one vertically upright to the side studs of the ppp, so that it slopes to the bottom. Take the second one and repeat symmetrically above. Then, attach 1 transparent light blue 1x2 plate vertically upright to the 2 ppps. Continue by attaching 1 red 1x2 jumper plate vertically upright to the ppp. Lastly, attach 1 black 1x1 pyramid slope tile to the ppp.

Step 83

Place 1 black 1x1 plate with 1x2 upright side studs under the back right corner of the build, so that its side studs face to the right, creating a 1x4 right-facing surface of side studs.

Step 84

Locate 2 red 1x2 plates with slope tile and stud. Attach the first one vertically upright to the side studs of the ppp, so that it slopes to the bottom. Take the second one and repeat symmetrically above. Then, attach 1 transparent light blue 1x2 plate vertically upright to the 2 ppps. Continue by attaching 1 red 1x2 jumper plate vertically upright to the ppp. Lastly, attach 1 black 1x1 pyramid slope tile to the ppp.

The right arm sub-build is complete. Bring back the standing mech, so that its chest faces to the front. Attach the back-facing pin of the arm to the left-facing rotation joint of the mech until you hear a click, rotate it so that the arm's free axle connector faces to the front and slightly to the bottom.

Group 23 – Mech's gun arm

Step 85.1

Let's build the mech's gun arm. Place 1 black rapid shooter barrel in front of you, so that its surface with 2 pinholes faces to the top. Then, rotate 1 light bluish gray rapid shooter trigger so that its flat side faces to the bottom. Insert its top-facing part into the bottom and center of the shooter barrel.

85.2 Insert 1 black 2L pin into each of the 2 pinholes on the top of the barrel.

85.3 Rotate 1 light bluish gray wheel with pinholes so that its larger circle faces to the top. Attach its bottom to the 2 ppps.

85.4 Insert 1 reddish brown 5L axle with stop vertically upright into the bottom and center of the gun arm build, so that its stop is to the bottom and it protrudes to the top by 2L.

85.5 Slide 1 light bluish gray bush onto the ppp, so that it still protrudes to the top by 1L.

85.6 Insert the gun arm’s axle into the front facing axle connector of the mech’s right arm.

Step 86

You can use the 12 transparent orange 1x1 round plates as ammunition for the gun arm. Attach them to the shooter barrel and rotate it to fire. Be careful not to aim or shoot at anyone’s face.

Thank you so much for building this set! Have fun with Knuckles fighting Dr. Eggman’s Egg Crusher Mech!

At the end of the instruction booklet, you will find two pages advertising 4 other Sonic the Hedgehog sets. On the first page, we have sets 77001 (Sonic’s Campfire Clash), 77002 (Cyclone vs. Metal Sonic), and 77003 (Super Shadow vs. Biolizard). On the next page, we have sets 77005 (Knuckles vs. Dr. Eggman Egg Crusher Mech, this set) and set 77006 (Team Sonic Command Truck). The background of this page is blue with some darker blue 2x6 bricks on the background flying at high speed. On the top left corner, we have the classic LEGO and Sonic the Hedgehog logos. Afterwards, you will find the set inventory and on the last page you will find an invitation to share feedback.

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