

60491 Motorcycle Transporter

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Introduce kids ages 4+ to a world of imaginative play with the LEGO® City Motorcycle Transporter (60491) toy building kit. This toy vehicles playset includes a flatbed truck toy with chunky rubber tires, 2 sporty motorcycle toys and 2 racer minifigures with helmets. Kids can load and unload the bikes using the ramp, play out epic motorcycle race action and seat a minifigure in the cab for fun on-the-road adventures.

TOY VEHICLE SET FOR AGES 4+ – The LEGO® City Motorcycle Transporter (60491) is a fun introductory playset for kids ages 4 and up who love model trucks and racing toys.

WHAT'S IN THE BOX – Includes everything kids need to build a toy flatbed truck, 2 motorcycle toys and 2 driver minifigures to inspire imaginative play and storytelling.

KIDS' TOYS FOR ROLE PLAY – Kids can seat a minifigure in the cab of the flatbed truck toy and attach the ramp to load and unload the 2 model motorcycles.

ACCESSORIES FOR PLAY – This toy vehicle set comes with LEGO® minifigure accessories for imaginative play, including a wrench, cup and smartphone.

DIMENSIONS – The flatbed truck in this 88-piece building set measures over 3.5 in. (8 cm) high, 5.5 in. (14 cm) long and 2.5 in. (7 cm) wide.

The front of the box shows a truck transporting a motorcycle while another motorcycle is racing on the tracks!

The back of the box shows all the accessories that the set comes with. It comes with 2 minifigures, a truck, 2 motorcycles, a wrench, phone, and mug!

The top of the box shows a real size image of a racer minifigure.

The build is 88 pieces in total and is for ages 4+.

Welcome to text-based instructions from Bricks for the Blind. Before you start building, here are some terms we'll be using:

- In Front of/Front: towards you.
- Behind/Back: away from you.
- Up: towards the ceiling.
- Down: towards the floor.
- Stud: the bump on a LEGO brick. Example: A 2x1 brick has two studs on it.
- Vertically: with the longest side going from front to back
- Horizontally: with the longest side going from left to right.
- Upright: pointing up towards the ceiling.
- Standing upright: The piece is perpendicular to the ground, like a wall.
- Lying flat: The piece is parallel to the ground, like a piece of toast which fell off the table.
- That one/ppp: previously placed piece.

- Plate: piece with studs.
- Tile: smooth piece without studs (unless otherwise specified)
- A jumper plate is a 1x2 plate with a single stud on top, or a 1x3 plate with only two studs on top.
- "Anti-stud" is a term for the portion of a LEGO piece which accepts studs, like the bottom of a plate or brick.
- Symmetrically: a mirror image. Example: If you place a 2x1 brick with technic connector on the front wall at the right, connector to the front, and then place another such piece symmetrically on the back wall, at the right, the technic connector of the second piece should point to the back, since it will be placed symmetrically.
- Centered-vertically: even amount of space in front of and behind piece
- Centered-horizontally: even amount of space left and right of piece.
- Row: studs lined up horizontally (left to right/side to side).
- Column: studs lined up upright or vertically (top to bottom/back to front).

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

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

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

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

Lift-arms - A lift-arm is a basic structural element, similar to a brick or a plate, but usually without any studs. It is a beam with rounded ends and with holes in it, with the same spacing as the studs on a LEGO brick. lift-arms come in a variety of lengths, including a 1x1 lift-arm which looks like a cylinder. Thick lift-arms are as wide as a LEGO brick, and thin lift-arms are half as wide as a LEGO brick, but not the same thickness as a LEGO plate! The holes in a lift-arm arm may accept axles or pins. They also come in a variety of shapes, including tees, 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 may want to follow along with the printed visual instructions that come with each kit, or PDF versions are always online at LEGO.com for each set: (<https://www.lego.com/en-us/service/buildinginstructions/60491>) 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 2 bags labeled 1 to 2, 2 sets of instructions, and some loose pieces. Sort the pieces into groups or piles as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split into 2 groups to make telling the difference easier for the builder! LEGO includes a few spare parts in case you lose something. Set these into their own group away from the rest, in case you need them later.

The steps in this set correspond to page numbers.

Bag 1 - Racer and Motorcycles

Group 1 - Pages 7-9.

Group 2 - Pages 10-22.

Bag 2 - Racer and Transporter

Group 3 - Pages 4-5.

Group 4 - Pages 6-23.

Group 5 - Pages 24-39.

Group 6 - Pages 40-55.

Group 7 - Pages 56-63.

Group 8 - Pages 64-77.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Racer

Sub-build 1. Locate 1 blue pair of legs, 1 blue and white torso with orange sleeves, 1 yellow head printed with eyes and a smile, 1 black hair, 1 white helmet, 1 black phone printed with a blue screen, and 1 silver mug. Assemble your minifigure, and attach the phone and mug to his hands! You can switch the hair out for the helmet if you like! Now put him away while we make the motorcycles!

Group 2 - Motorcycles

10-11. Let's make 2 identical parts! Horizontally place a black motorcycle base in front of you so the top-facing clip is on the left.

12-13. Horizontally place an orange motorcycle cover printed with a blue shark on top of the ppp so the studs are on the right.

14-17. Attach a silver wheel to a black tire. Now attach it to the 2 leftmost bottom-facing clips. Then repeat everything symmetrically to the right.

18-19. Vertically attach dark grey handlebars to the leftmost top-facing clips so the ends of the handle bars face the right.

20-22. Now you have 2 identical motorcycles! Now put everything away while we make the next part!

Building Instructions (Bag 2, Book 2):

Group 3 - Racer

Sub-build 2. Locate 1 blue pair of legs, 1 blue and white torso with orange sleeves, 1 yellow head printed with eyes, eyelashes, and a smile, 1 brown hair, 1 black helmet, and 1 silver wrench. Assemble your minifigure, and attach the wrench to her hand! You can switch the hair out for the helmet if you like! Now put her away while we make the transporter!

Group 4 - Transporter

6-7. Horizontally place a dark grey 6x16 car base in front of you.

8-9. Vertically place a light grey 1x2 steering wheel on the 2nd column from the right so it is centered vertically and the wheel faces the left. Then place a brown 2x2 tile with 2 studs to the left of the ppp so the studs are on the right.

10-11. Vertically place a tan 2x4 brick to the left of the ppp so it is centered vertically. Now vertically place another 1 on the 2nd and 3rd columns from the left so it is centered vertically.

12-13. Horizontally place a dark blue 1x4 tile upright on the front-facing side studs so it is centered horizontally.

14-15. Horizontally place a transparent red 1x2 tile upright on the bottom row of side studs that are on the front 2 columns of left-facing side studs. Then repeat symmetrically to the back.

16-17. Vertically place a white 1x2 plate with 2 clips on the leftmost column so it is centered vertically and the clips face the left.

18-19. Place a white 2x2 sloped curved tile on the 2 leftmost columns so it is centered vertically and slopes to the right.

20-21. Place an orange 3x3 plate on the front left corner so 1 row overhangs to the front. Then repeat symmetrically to the back.

22-23. Rotate your build 180 degrees. Then horizontally place a dark blue 1x4 tile upright on the front-facing side studs so it is centered horizontally.

Group 5 - Transporter

24-25. Horizontally place an orange 2x4 tile printed with a dark grey grill upright on the left-facing side studs so it is centered horizontally. Then vertically place a transparent 1x2 tile upright on the left-facing side studs, in front and behind the ppp.

26-27. Vertically place an orange 2x8 plate on the 4th and 5th columns from the right so it is centered vertically. Then vertically place another 1 to the left of the ppp.

28-29. Place a white 2x2 sloped curved tile on the 3rd and 4th columns from the right so it is centered vertically and slopes to the right.

30-31. Vertically place a light grey 2x4 plate to the left of the ppp so it is centered vertically.

32-33. Vertically place 2 white 1x4 tiles with 2 studs, 1 to the right of the other, on top of the ppp.

34-35. Vertically place an orange 2x8 plate on the 8th and 9th columns from the right so it is centered vertically. Then vertically place another 1 to the left of the ppp.

36-37. Horizontally place an orange 1x4 plate on the front row of the 2nd to 5th columns from the left. Then repeat symmetrically to the back.

38-39. Vertically place a transparent 1x2 tile on the leftmost column so it is centered vertically. Then vertically place an orange 1x2 plate with a hinge in front of the ppp so the hinge faces the front. Then repeat symmetrically to the back.

Group 6 - Transporter

40-41. Vertically place a light grey 1x4x3 window frame on the 5th column from the left so it is centered vertically and the ridged side faces the left.

42-43. Horizontally place the leftmost column of a dark blue 1x3x2 inverted half arch brick in front of the ppp so it slopes to the right. Then repeat symmetrically to the back.

44-45. Place a dark blue 1x1 short brick on top of each of the 2 ppp.

46-47. Vertically place an orange 1x6 plate on top of the 2 ppp and window frame so it is centered vertically.

48-49. Horizontally place a dark blue 1x3 brick on the front row of the 2nd to 4th columns from the left. Then repeat symmetrically to the back.

50-51. Vertically place a transparent 1x6x3 panel with curved corners on the leftmost column so the wall faces the left.

52-53. Let's make a part! Vertically place a white 1x4 brick in front of you. Then vertically place 2 dark grey 1x2 plates with an upright bar, 1 in front of the other, on top of the ppp so the bars face the right. Now vertically place a dark blue 1x4 tile on top of the 2 ppp.

54-55. Vertically place your part on the 5th column from the left so it is centered vertically and the bars face the right.

Group 7 - Transporter

56-57. Vertically place a dark blue 5x6x2 car hood on the 5 leftmost columns so it is centered vertically and slopes to the left.

58-59. Vertically place a transparent orange 1x4 tile on top of the ppp so it is centered vertically.

60-61. Place a dark blue 1x1 sloped curved brick on the front row of the 11th column from the right so it slopes to the left. Then repeat symmetrically to the back.

Group 8 - Transporter

62-65. Horizontally place a dark blue 1x4 tile on the back row to the right of the ppp. Then repeat symmetrically to the front.

66-67. Horizontally place a dark blue 1x10 sloped curved brick on the back right corner, on top of the ppp so it slopes to the right and there is no overhang. Then repeat symmetrically to the front.

68-69. Horizontally place a dark blue 1x2 tile on top of each of the 2 ppp.

70-71. Vertically attach the upper top bar of a black ladder with 7 rungs to the 2 right-facing clips so it is centered horizontally, the clips of the ladder face the back, and it hangs down.

72-73. Let's make 4 identical parts! Insert a white wheel into a black tire.

74-77. Now you should have 4 identical parts! Attach 2 wheels to the 2 front-facing pins so the hollow side of the wheels face the front. Then repeat symmetrically to the back.

Congratulations on finishing your build! Would you like to inspire other blind people to build LEGO sets? Let's feature your build on our [Builders page](#). It's easy and we will do all the work! Just contact us at info@bricksfortheblind.org and together we will make it happen!

Please [signup](#) for our newsletter and follow us on [Facebook](#) and [Instagram](#) to be the first to know when new instructions are available!

We hope you enjoyed building your LEGO set! Bricks for the Blind are able to create these text-based building instructions thanks to generous donations from our builders. If you enjoy the instructions we create, please consider making a \$5 donation at <https://www.gofundme.com/f/bricks-for-the-blind-gofundme>. Bricks for the Blind is a registered tax exempt 501(c)(3) corporation.

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At the end of the instruction booklets are advertisements for the following 9 LEGO City Theme kits:

60500 The LEGO® Van

60485 Hot Rod

60488 Fries Food Truck

60479 Police Prisoner Transport Van

60486 EV Supercar

60489 Jet vs. Car

60499 Airport Fire Truck

60487 Yellow Taxi

60502 Airport with Airplane