

## **60482 Rides – Fire Truck**

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Spark fun firefighting adventures with the LEGO® City Rides – Fire Truck (60482) mini building kit for kids aged 5 and up. This pocket-sized, buildable toy truck is a great introduction to the creative world of LEGO City and comes with features kids will love, including chunky rubber tires and a raisable fire ladder. The set includes a LEGO City Rides firefighter junior minifigure that fits perfectly in the driver cab for pretend play.

**FIREFIGHTER TOY FOR AGES 5+ –** Ignite exciting rescue adventures with this easy-to-build LEGO® City Rides – Fire Truck (60482) toy for kids.

**EASY TO BUILD TOY VEHICLE –** This mini building kit includes everything young builders need to create their very own toy fire truck and LEGO® City Rides junior minifigure.

**CAR TOYS FOR CREATIVE PLAY –** The miniature model fire truck features an iconic design with chunky rubber tires and a raisable fire ladder for imaginative play and storytelling.

**FIREFIGHTER JUNIOR MINIFIGURE –** Kids can pop the mini firefighter into the driver's seat before setting out on exciting fire rescue missions.

**DIMENSIONS –** The toy emergency vehicle in this 67-piece LEGO® City Rides building set measures over 2 in. (6 cm) high, 3 in. (8 cm) long and 2 in. (5 cm) wide.

The front of the box shows a fire truck with a ladder zooming to the fire!

The back of the box shows that you can detach the wheels and roof of the car!

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

The build is 67 pieces in total and is for ages 5+.

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/60482>) 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 unlabeled bags, 1 set 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.

Bags 1-2 - Junior Minifigure and Fire Truck

Group 1 - Page 5.

Group 2 - Pages 6-23.

Group 3 - Pages 24-45.

Group 4 - Pages 46-60.

Let's get to building!

Building Instructions (Bags 1-2, Book 1):

Group 1 - Junior Minifigure

Sub-build 1. Locate 1 black baby body with yellow hands and a 1 yellow head with a yellow helmet printed with eyes and lips. Assemble your junior minifigure then put him aside while we make his ride!

Group 2 - Fire Truck

6-7. Horizontally place a dark grey 2x8 plate in front of you. Then horizontally place a black 2x4 plate with higher ends on the 4 leftmost columns. Then repeat symmetrically to the right.

8-9. Vertically place a light grey 2x4 plate with 2 pins on the 2nd and 3rd columns from the left so it is centered vertically. Then repeat symmetrically to the right.

10-11. Horizontally place a black 2x4 brick with a mudguard on the back left corner so it overhangs in the back left and back right corners and the mudguard faces the back. Then repeat symmetrically to the front. Now repeat both parts symmetrically to the right.

12-13. Let's make a part! Horizontally place a dark grey 1x2 plate with 2x4 side studs hanging down in front of you so the side studs face the front. Then horizontally place a black 1x4 double sloped curved tile upright on the bottom row of front-facing side studs so it is centered horizontally. Now horizontally place a dark grey 1x2 grill tile upright above the ppp so it is centered horizontally. Then place a transparent red 1x1 round tile upright to the left and right of the ppp.

14-15. Vertically place your part on the rightmost column so it is centered vertically and the upright pieces face the right.

16-17. Place a yellow 1x1 plate on the front right corner. Then repeat symmetrically to the back. Now horizontally place 2 white 1x6 plates, 1 in front of the other, on top of your build so together they are centered horizontally and vertically.

18-19. Place a yellow 1x1 plate on the front left corner. Then horizontally place a yellow 1x2 plate on the front row so it is centered horizontally. Now repeat both parts symmetrically to the back.

20-21. Vertically place a red 1x4 brick on the rightmost column. Then horizontally place a blue 2x3 brick to the left of the ppp so it is centered vertically. Then place a light grey 2x2 plate to the left of the ppp.

22-23. Horizontally place a black 2x2 tile with a stud on top of the ppp. Now horizontally place a red 1x4 brick on the front row of the 2nd to 5th columns from the right. Then repeat symmetrically to the back.

### Group 3 - Fire Truck

24-25. Let's make a part! Horizontally place a dark grey 1x2 plate with 2x4 side studs hanging down in front of you so the side studs face the front. Then horizontally place a black 1x4 double sloped curved tile upright on the bottom row of front-facing side studs so it is centered horizontally. Now horizontally place a dark grey 1x2 grill tile upright above the ppp so it is centered horizontally. Then place a transparent 1x1 round tile upright to the left and right of the ppp.

26-27. Vertically place your part on the leftmost column so it is centered vertically and the upright parts face the left.

28-29. Horizontally place a red 1x2 panel on the front row of the 2nd and 3rd columns from the left so the wall faces the front. Then repeat symmetrically to the back.

30-31. Vertically place a red 1x4 brick on the leftmost column. Then vertically place a black 1x2 steering wheel to the right of the ppp so it is centered vertically and the wheel faces the right.

32-33. Vertically place a red 2x4 plate on the 2 rightmost columns.

34-35. Horizontally place 2 black 1x2 plates with a stud and a clip, 1 in front of the other, on the 2 rightmost columns so together they are centered vertically and the clips are on the right. Then place 2 short dark grey 1x1 bricks, 1 in front of the other, to the left of the 2 ppp so together they are centered vertically.

36-37. Place a red 2x2 plate on the 2nd and 3rd columns from the right so it is centered vertically.

38-39. Place a red 1x1 brick with a side stud and a bottom lip on the front row of the 3rd column from the right so the side stud faces the front. Then repeat symmetrically to the back.

40-41. Place a blue 1x1 half cylinder brick upright on the front-facing side stud so it slopes up and down. Then repeat symmetrically to the back.

42-43. Vertically place 2 red 1x2 tiles with an upright horizontal bar, 1 in front of the other, on the 3rd column from the right so they slope to the right.

44-45. Vertically place a transparent 1x2x2 panel to the left of the 2 ppp so it is centered vertically and the wall faces the right.

#### Group 4 - Fire Truck

46-47. Place your junior minifigure to the left of the ppp so it sits on the 2x2 tile with a stud and the hands face the left.

48-49. Vertically place a transparent 2x4x2 windshield on the 2 leftmost columns so it faces the left. Now horizontally place a red 1x2x2 brick printed with a dark grey shield with a red flame on the front row to the right of the ppp so it sits on 2 studs and the print faces the front. Then repeat symmetrically to the back.

50-51. Vertically place a red 1x4 tile on the right column of the 2 ppp so it is centered vertically.

52-53. Place a red 4x4 tile with 4 studs printed with a dark grey shield with a red flame to the left of the ppp so the studs are on the right.

54-55. Vertically place a transparent blue 1x4 tile on top of the ppp. Then attach the bottom rung of a black ladder with 4 rungs to the 2 rightmost top-facing clips so it slopes up and to the left.

56-57. Let's make 4 identical parts! Place a black 2x2 round tile upright on the side of a black wheel with a black tire.

58-60. Now you should have 4 identical parts! Attach 2 wheels to the 2 front-facing pins. 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](mailto: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 4 LEGO RIDES Theme kits:

60482 Rides – Fire Truck

60483 Rides – Construction Loader

60481 Rides – Police Truck

60484 Rides – Gaming Race Car