

60474 F1 Grid with VCARB & Sauber Race Cars

Adapted by John Le and tested by Jolene Nemeth.

Bring the excitement of the track to kids' playtimes with this LEGO® City F1® Grid with VCARB & Sauber Race Cars (60474) toy vehicle set for ages 6 and up. Perfect for young race enthusiasts, this LEGO Formula 1® building kit features 2 F1 race car toys and a light gantry with a sliding panel for realistic grid-start action. Kids also get a race marshal and 2 driver minifigures, plus a trophy for epic racetrack roleplay.

LEGO® City F1® toy vehicle set – Get kids' race play off to a flying start with the LEGO City F1 Grid with VCARB & Sauber Race Cars building set for ages 6 and up.

What's in the box? – Includes everything kids need to build 2 LEGO® F1® race cars and a toy light gantry, plus Sauber and VCARB driver minifigures, a marshal minifigure and a winner's trophy.

Realistic race play – Place the Sauber and VCARB driver minifigures into the cockpits of the F1® race cars and slide the panel on the light gantry for realistic grid-start action.

Dimensions – Each toy F1® race car in this 313-piece LEGO® playset measures over 1.5 in. (3 cm) high, 5.5 in. (14 cm) long and 2 in. (5 cm) wide.

The front of the box shows a green formula 1 race car racing a blue formula 1 race car on a track! There is a light gantry to show the drivers when to start! There is also a race marshal holding a checkered flag and a trophy for the winner!

The back of the box shows the cars parked on the track. The 2 drivers are high-fiving each other while the race marshal is bringing the winner the trophy!

The top of the box shows a real size image of a race car tire.

The build is 313 pieces in total and is for ages 6+.

Bag 1 includes the pieces for a driver and the blue race car.

Bag 2 includes the pieces for a driver and the green race car.

Bag 3 includes the pieces for the race marshal and the light gantry.

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/60474>) 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 3 bags labeled 1, 2, and 3, 3 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.

Bag 1 - Driver and Blue Formula 1 Race Car

Group 1 - Page 4.

Group 2 - Steps 1-20.

Group 3 - Step 21.

Group 4 - Steps 22-25.

Group 5 - Steps 26-30.

Group 6 - Step 31 and 1 blue 1x1 slope tile from Step 32.

Group 7 - Rest of Step 32, Steps 33-43, and 1 white 1x2 sloped curved tile from Step 44.

Group 8 - Rest of Step 44, Steps 45-52, and 1 blue 1x2 sloped curved tile from Step 53.

Group 9 - Rest of Step 53 and Steps 54-57.

Bag 2 - Driver and Green Formula 1 Race Car

Group 10 - Page 2.

Group 11 - Steps 1-20.
Group 12 - Steps 21-32.
Group 13 - Steps 33-50.
Group 14 - Steps 51-58.

Bag 3 - Race Marshal and Light Gantry

Group 15 - Page 2.

Group 16 - Steps 1-9 and 1 red 1x4 tile from Step 10.

Group 17 - Rest of Step 10, Steps 11-14, and 1 white 1x4 tile from Step 15.

Group 18 - Rest of Step 15 and Steps 16-17.

Group 19 - Steps 18-22.

Group 20 - Steps 23-36 and 5 transparent 1x1 round tiles from Step 37.

Group 21 - Rest of Step 37 and Step 38.

Group 22 - Steps 39-55.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Driver

Sub-build 1. Locate 1 white pair of legs, 1 white torso printed with 2 little blue stripes, 1 yellow head printed with eyes, lips, and a shaved beard, 1 blue helmet with white and red stripes, and 1 transparent face shield. Assemble your minifigure, then put the helmet on him and make sure the opening faces the front, then attach the face shield to the helmet! Now put him away while we make his car!

Group 2 - Blue Formula 1 Race Car

1. Horizontally place a light grey 2x4 plate in front of you.
2. Vertically place a black 2x2 plate with round parts and 2 pins on the 2 leftmost columns so the pins face the front and back.
3. Vertically place a light grey 1x2 plate with a bar on the long side on the leftmost column so the bar faces the left. Now place a light grey 1x2 plate attached to a 1x2 brick with a hole on the 2nd and 3rd columns from the right so the hole faces the right.
4. Horizontally place 2 transparent red 1x2 plates, 1 in front of the other, on the 2 leftmost columns.
5. Vertically place a red 1x2 brick with an axle hole on the rightmost column.
6. Insert a yellow 3L axle into the right-facing axle hole so it goes all the way in.
7. Horizontally attach the left-facing axle hole of a dark grey 2x6 plate with 1x2 bricks with axle holes on the sides to the right-facing axle. Now insert a blue 2L pin axle into the right-facing axle hole so the pin faces the right.
8. Horizontally place a red 1x2 plate with 2x2 side studs hanging down on the front row on the 4th and 5th columns from the left so the side studs face the front. Then repeat symmetrically to the back.

9. Place a dark grey 2x2 slope brick on the 4th and 5th columns from the right so it slopes to the right.
10. Place a dark grey 2x2 sloped curved tile on the 5th and 6th columns from the left so it slopes to the right.
11. Vertically place a red 2x4 trapezoid plate on the 2nd and 3rd columns from the left so it is centered vertically and the short side faces the left.
12. Horizontally place 2 black 1x2 plates with a stud and a clip, 1 in front of the other, on the leftmost column so the clips overhang to the left.
13. Place 2 blue 2x2 half cylinder bricks, 1 to the right of the other, on the 4 leftmost columns, to the right of the clips so they slope to the front and back.
14. Horizontally place a blue 1x2 plate with 1x2 anti-side studs on the 3rd and 4th columns from the left so the anti studs face the right. Make sure not to count the clips as a column!
15. Vertically place a black 1x2 jumper plate with a round side on the 4th column from the left so it is centered vertically and the round side faces the left.
16. Horizontally place a white 1x4 sloped curved brick on the 4 leftmost columns so it slopes to the left.
17. Place a black 1x1 plate upright on the top right-facing anti-stud.
18. Attach the bar of a black 2x2 plate with a bar underneath the 2 clips on the leftmost column so it overhangs 1 column to the left and the studs face up. Then vertically place a black 2x4 sloped curved tile printed with a white trapezoid and 2 red stripes on top so it is centered vertically and slopes to the right.
19. Let's make a part! Horizontally place a dark grey 2x3 plate with a round side and a hole in front of you so the round side faces the right.
20. Vertically place a black 2x2 plate with round parts and 2 pins on the 2 leftmost column so the pins face the front and back.

Group 3 - Blue Formula 1 Race Car

21. Place a light grey 1x2 plate attached to a 1x2 brick with a hole on the leftmost column so the brick overhangs 1 column to the left. Now vertically place a white 1x2 plate underneath the leftmost column.

Group 4 - Blue Formula 1 Race Car

22. Vertically place a black 1x2 plate on the rightmost column.
23. Place a black 2x2 plate on the 2 rightmost columns.
24. Horizontally attach the left-facing pinhole of your part to the right-facing pin of the main build.

25. Horizontally place a red 1x2 plate with 2x2 side studs hanging down on the 3rd and 4th columns from the right so the side studs face the front. Make sure you don't count the rightmost 1x2 rounded part as a column. Then repeat symmetrically to the back.

Group 5 - Blue Formula 1 Race Car

26. Vertically place a red 1x2 plate on the 2nd column from the right.

27. Let's make a part! Vertically place a dark grey 1x5 plate in front of you.

28. Horizontally place a black 1x3 rounded plate on top so it is centered vertically and horizontally.

29. Vertically place a black 2x3 wedge plate on the front 2 rows so the angled side overhangs 1 column to the right and the short end overhangs the front. Then repeat symmetrically to the back.

30. Vertically place a white 1x3 jumper plate on the 2nd column from the left so it is centered vertically.

Group 6 - Blue Formula 1 Race Car

31. Vertically place a white 1x2 plate on the leftmost column so it is centered vertically. Then place a white 1x1 quarter circle tile on the 2nd column from the left, in front of the 1x3 jumper plate so the curve faces the front right. Now repeat symmetrically to the back.

32.1. Place a blue 1x1 slope tile on the rightmost column so it is centered vertically and slopes to the right.

Group 7 - Blue Formula 1 Race Car

32.2. Place a black 1x1 slope tile on the front row so it slopes to the right. Then repeat symmetrically to the back.

33. Horizontally place a blue 2x4 sloped curved brick with 2 red stripes and a silver part on the 2 leftmost columns so it is centered vertically, slopes to the right, and overhangs 2 columns to the left.

34. Place the 2 leftmost columns of your part on top of the 2 rightmost columns of your main build. Make sure not to count the 1x2 rounded part as a column!

35. Place a white 2x2 plate with 2 side studs on the 5th and 6th columns from the right, to the left of the 2x4 sloped curved brick so the side studs face the left. Then horizontally place a dark grey 1x2 rounded tile printed with a bunch of buttons and a steering wheel upright on the left-facing side studs of the ppp.

36. Let's make a part! Horizontally place a black 1x8 plate in front of you. Then horizontally place a black 1x4x1 panel on the 4 leftmost columns so the wall faces the front.

37. Horizontally place a white 1x2 plate on the 3rd and 4th columns from the right.

38. Horizontally place a black 1x2 grill slope tile on the 2 rightmost columns so it slopes to the right. Then horizontally place a light grey 1x2 rounded plate to the left of the ppp.

39. Horizontally place a black 1x3 tile on the 3rd and 4th columns from the right so it overhangs 1 column to the right onto the grill slope tile.

40. Horizontally place your part upright on the bottom row of front-facing side studs so it is centered horizontally on them and the grill slope tile is on the right.

41. Place a red 1x1 plate with a clip upright on the leftmost front-facing side stud so the clip faces up.

42. Horizontally place a white 1x6 plate with an arch upright on the front-facing side studs to the right of the ppp so the arch part faces the front and the lip faces up.

43. Horizontally place a blue 1x4 sloped curved brick upright on the 4 leftmost front-facing side studs so it slopes to the left.

44.1. Horizontally place a white 1x2 sloped curved tile upright on the 2 rightmost front-facing side studs so it slopes to the right.

Group 8 - Blue Formula 1 Race Car

44.2. Horizontally place a blue 1x2 sloped curved tile upright on the front-facing side studs so it slopes to the right.

45. Let's make a part! Horizontally place a black 1x8 plate in front of you. Then horizontally place a black 1x4x1 panel on the 4 rightmost columns so the wall faces the front.

46. Horizontally place a white 1x2 plate on the 3rd and 4th columns from the left.

47. Horizontally place a black 1x2 grill slope tile on the 2 leftmost columns so it slopes to the left. Then horizontally place a light grey 1x2 rounded plate to the right of the ppp.

48. Horizontally place a black 1x3 tile on the 3rd and 4th columns from the left so it overhangs to the left onto the 1x2 grill slope tile.

49. Rotate your main build 180 degrees. Then horizontally place your part upright on the bottom row of front-facing side studs so it is centered horizontally on them and the grill slope tile is on the left.

50. Place a red 1x1 plate with a clip upright on the rightmost front-facing side stud so the clip faces up.

51. Horizontally place a white 1x6 plate with an arch upright on the front-facing side studs to the left of the ppp so the arch is in the front and the lip faces up.

52. Horizontally place a blue 1x4 sloped curved brick upright on the 4 rightmost front-facing side studs so it slopes to the right.

53.1. Horizontally place a white 1x2 sloped curved tile upright on the 3rd and 4th front-facing side studs from the left so it slopes to the left.

Group 9 - Blue Formula 1 Race Car

53.2. Horizontally place a white 1x2 sloped curved tile upright on the front-facing side studs so it slopes to the left.

54. Let's make a part! Horizontally place a long black bendable bar in front of you. Now insert a blue bar holder with a bar into the left-facing side so the bar is horizontal. Then repeat symmetrically to the right.

55. Attach 1 end of the part to the front top-facing clip. Then attach the other end to the back top-facing clip.

56. Bend your part all the way down to the left so it touches the 1x2 rounded tile.

57.1. Let's make 4 identical parts! Attach a black 2x2 round tile with a hole printed with red circles to a black wheel.

57.2. Now you should have 4 identical parts! Attach 2 wheels to the front-facing pins so the tiles face the front. Then repeat symmetrically to the back. Now put your race car away while we make the next part!

Building Instructions (Bag 2, Book 2):

Group 10 - Driver

Sub-build 2. Locate 1 black pair of legs, 1 black torso printed with green arms, 1 yellow head printed with eyes, lips, and eyelashes, 1 green helmet, and 1 transparent face shield. Assemble your minifigure, then put the helmet on her and make sure the opening faces the front, then attach the face shield to the helmet! Now put her away while we make her car!

Group 11 - Green Formula 1 Race Car

1. Horizontally place a light grey 2x4 plate in front of you.

2. Vertically place a black 2x2 plate with round parts and 2 pins on the 2 leftmost columns so the pins face the front and back.

3. Vertically place a light grey 1x2 plate with a bar on the long side on the leftmost column so the bar faces the left. Now place a light grey 1x2 plate attached to a 1x2 brick with a hole on the 2nd and 3rd columns from the right so the hole faces the right.

4. Horizontally place 2 transparent red 1x2 plates, 1 in front of the other, on the 2 leftmost columns.

5. Vertically place a red 1x2 brick with an axle hole on the rightmost column.

6. Insert a yellow 3L axle into the right-facing axle hole so it goes all the way in.

7. Horizontally attach the left-facing axle hole of a dark grey 2x6 plate with 1x2 bricks with axle holes on the sides to the right-facing axle. Now insert a blue 2L pin axle into the right-facing axle hole so the pin faces the right.

8. Horizontally place a black 1x2 plate with 2x2 side studs hanging down on the front row on the 4th and 5th columns from the left so the side studs face the front. Then repeat symmetrically to the back.

9. Place a dark grey 2x2 slope brick on the 4th and 5th columns from the right so it slopes to the right.
10. Place a dark grey 2x2 sloped curved tile on the 5th and 6th columns from the left so it slopes to the right.
11. Vertically place a green 2x4 trapezoid plate on the 2nd and 3rd columns from the left so it is centered vertically and the short side faces the left.
12. Horizontally place 2 black 1x2 plates with a stud and a clip, 1 in front of the other, on the leftmost column so the clips overhang to the left.
13. Place 2 green 2x2 half cylinder bricks, 1 to the right of the other, on the 4 leftmost columns, to the right of the clips so they slope to the front and back.
14. Horizontally place a green 1x2 plate with 1x2 anti-side studs on the 3rd and 4th columns from the left so the anti studs face the right. Make sure not to count the clips as a column!
15. Vertically place a black 1x2 jumper plate with a round side on the 4th column from the left so it is centered vertically and the round side faces the left.
16. Horizontally place a black 1x4 sloped curved brick on the 4 leftmost columns so it slopes to the left.
17. Place a black 1x1 plate upright on the top right-facing anti-stud.
18. Attach the bar of a black 2x2 plate with a bar underneath the 2 clips on the leftmost column so it overhangs 1 column to the left and the studs face up. Then vertically place a green 2x4 sloped curved tile printed with a black trapezoid and 2 black stripes on top so it is centered vertically and slopes to the right.
19. Let's make a part! Horizontally place a dark grey 2x3 plate with a round side and a hole in front of you so the round side faces the right.
20. Vertically place a black 2x2 plate with round parts and 2 pins on the 2 leftmost column so the pins face the front and back.

Group 12 - Green Formula 1 Race Car

21. Place a light grey 1x2 plate attached to a 1x2 brick with a hole on the leftmost column so the brick overhangs 1 column to the left. Now vertically place a green 1x2 plate underneath the leftmost column.
22. Vertically place a green 1x2 plate on the rightmost column.
23. Place a green 2x2 plate on the 2 rightmost columns.
24. Horizontally attach the left-facing pinhole of your part to the right-facing pin of the main build.
25. Horizontally place a black 1x2 plate with 2x2 side studs hanging down on the 3rd and 4th columns from the right so the side studs face the front. Make sure you don't count the rightmost 1x2 rounded part as a column. Then repeat symmetrically to the back.

26. Vertically place a green 1x2 plate on the 2nd column from the right.
27. Let's make a part! Vertically place a dark grey 1x5 plate in front of you.
28. Horizontally place a green 1x3 rounded plate on top so it is centered vertically and horizontally.
29. Vertically place a green 2x3 wedge plate on the front 2 rows so the angled side overhangs 1 column to the right and the short end overhangs to the front. Then repeat symmetrically to the back.
30. Vertically place a green 1x3 jumper plate on the 2nd column from the left so it is centered vertically.
31. Vertically place a green 1x2 plate on the leftmost column so it is centered vertically. Then place a green 1x1 quarter circle tile on the 2nd column from the left, in front of the 1x3 jumper plate so the curve faces the front right. Now repeat symmetrically to the back.
32. Place a black 1x1 slope tile on the front row so it slopes to the right. Then repeat symmetrically to the back.

Group 13 - Green Formula 1 Race Car

33. Place a green 1x1 slope tile on the rightmost column so it is centered vertically and slopes to the right.
34. Horizontally place a black 2x4 sloped curved brick printed with a white circular emblem on the 2 leftmost columns so it is centered vertically, slopes to the right, and overhangs 2 columns to the left.
35. Place the 2 leftmost columns of your part on top of the 2 rightmost columns of your main build. Make sure not to count the 1x2 rounded part as a column!
36. Place a green 2x2 plate with 2 side studs on the 5th and 6th columns from the right, to the left of the 2x4 sloped curved brick so the side studs face the left. Then horizontally place a dark grey 1x2 rounded tile printed with a bunch of buttons and a steering wheel upright on the left-facing side studs of the ppp.
37. Let's make a part! Horizontally place a black 1x8 plate in front of you. Then horizontally place a black 1x4x1 panel on the 4 leftmost columns so the wall faces the front.
38. Horizontally place a green 1x2 plate on the 3rd and 4th columns from the right.
39. Horizontally place a black 1x2 grill slope tile on the 2 rightmost columns so it slopes to the right. Then horizontally place a light grey 1x2 rounded plate to the left of the ppp.
40. Horizontally place a black 1x3 tile on the 3rd and 4th columns from the right so 1 column overhangs to the right over the grill slope tile.
41. Horizontally place your part upright on the bottom row of front-facing side studs so it is centered horizontally on them and the grill slope tile is on the right.
42. Place a black 1x1 plate with a clip upright on the leftmost front-facing side stud so the clip faces up.

43. Horizontally place a green 1x6 plate with an arch upright on the front-facing side studs to the right of the ppp so the arch faces the front and the lip faces up.

44. Horizontally place a black 1x4 sloped curved brick upright on the 4 leftmost front-facing side studs so it slopes to the left.

45. Horizontally place a black 1x2 sloped curved tile upright on the 2 rightmost front-facing side studs so it slopes to the right. Then horizontally place another 1 upright to the left of the ppp so it also slopes to the right.

46. Let's make a part! Horizontally place a black 1x8 plate in front of you. Then horizontally place a black 1x4x1 panel on the 4 rightmost columns so the wall faces the front.

47. Horizontally place a green 1x2 plate on the 3rd and 4th columns from the left.

48. Horizontally place a black 1x2 grill slope tile on the 2 leftmost columns so it slopes to the left. Then horizontally place a light grey 1x2 rounded plate to the right of the ppp.

49. Horizontally place a black 1x3 tile on the 3rd and 4th columns from the left so 1 column overhangs to the left over the 1x2 grill slope tile.

50. Rotate your main build 180 degrees. Then horizontally place your part upright on the bottom row of front-facing side studs so it is centered horizontally on them and the grill slope tile is on the left.

Group 14 - Green Formula 1 Race Car

51. Place a black 1x1 plate with a clip upright on the rightmost front-facing side stud so the clip faces up.

52. Horizontally place a green 1x6 plate with an arch upright on the front-facing side studs to the left of the ppp so the arch faces the front and the lip faces up.

53. Horizontally place a black 1x4 sloped curved brick upright on the 4 rightmost front-facing side studs so it slopes to the right.

54. Horizontally place a black 1x2 sloped curved tile upright on the 2 leftmost front-facing side studs so it slopes to the left. Then horizontally place another 1 upright to the right of the ppp so it also slopes to the left.

55. Let's make a part! Horizontally place a long black bendable bar in front of you. Now insert a black bar holder with a bar into the left-facing side so the bar is horizontal. Then repeat symmetrically to the right.

56. Attach 1 end of the part to the front top-facing clip. Then attach the other end to the back top-facing clip.

57. Bend your part all the way down to the left so it touches the 1x2 rounded tile.

58.1. Let's make 4 identical parts! Attach a black 2x2 round tile with a hole printed with green circles to a black wheel.

58.2. Now you should have 4 identical parts! Attach 2 wheels to the front-facing pins so the tiles face the front. Then repeat symmetrically to the back. Now put your race car away while we make the next part!

Building Instructions (Bag 3, Book 3):

Group 15 - Race Marshal

Sub-build 3. Locate 1 dark blue pair of legs, 1 orange torso printed with a black, orange, and white jacket, 1 yellow head printed with eyes and a smile, and 1 brown hair. Assemble your minifigure then put him away while we make the light gantry!

Group 16 - Light Gantry

1. Horizontally place a dark grey 4x12 plate in front of you. Then vertically place a light grey 1x1 plate with a 1x1 slope tile on the back left corner so it slopes to the front. Now repeat symmetrically to the right.

2. Place a yellow 1x1 round plate on the back row on the 2nd column from the left. Then repeat symmetrically to the right.

3. Vertically place a light grey 1x2x3 panel on the 2nd column from the left so it is centered vertically and the wall faces the right.

4. Place a light grey 2x2x3 brick on the back 2 rows on the 3rd and 4th columns from the left.

5.1. Let's make a part! Horizontally place a light grey 1x2 log brick in front of you. Then horizontally place a black 1x2 plate with a bar on the long side on top so the bar faces the front.

5.2. Horizontally place a light grey 1x2 log brick on top of the ppp. Then horizontally place a black 1x2 plate with a bar on the long side on top of the ppp so the bar faces the front. Then horizontally place a light grey 1x2 plate on top.

5.3. Horizontally place your part on the 3rd and 4th columns from the left, in front of the 2x2x3 brick so the bars face the front.

6. Place a lime green 2x2 plate on the 2nd and 3rd rows from the back on the 3rd and 4th columns from the left.

7. Vertically place a light grey 1x2x3 panel on the 2nd and 3rd rows from the back on the 5th column from the left so the wall faces the left.

8. Rotate your build 180 degrees. Now horizontally place a light grey 1x2 brick with 2 side studs on the front left corner so the side studs face the front. Then repeat symmetrically to the right.

9. Place a black 2x2x10 support on the front 2 rows on the 3rd and 4th columns from the left so the middle post faces the right.

You will have an extra red 1x4 tile. Save it for later!

Group 17 - Light Gantry

10.1. Let's make a part! Vertically place a dark grey 2x3 plate in front of you. Then horizontally place a light grey 1x4 half cylinder brick on the back row so it overhangs 2 columns to the left.

10.2. Vertically place a dark grey 2x3 plate underneath the leftmost column so 2 rows are exposed to the front and 1 column is exposed to the left.

10.3. Horizontally place a white 1x4 tile on the front right corner so there is no overhang on the right. Then horizontally place a light grey 1x4 half cylinder brick behind the ppp.

10.4. Horizontally place a light grey 1x4 half cylinder brick on the back left corner so it overhangs 3 columns to the left. Then vertically place a dark grey 2x3 plate underneath the leftmost column so 2 rows are exposed to the front and 1 column is exposed to the left.

10.5. Horizontally place a red 1x4 tile from group 16 on the front row to the left of the 1x4 tile. Then horizontally place a light grey 1x4 half cylinder brick behind the ppp.

10.6. Horizontally place a light grey 1x4 half cylinder brick on the back left corner so it overhangs 3 columns to the left. Then vertically place a dark grey 2x3 plate underneath the 2 leftmost columns so 2 rows are exposed to the front.

10.7. Horizontally place a white 1x4 tile on the front left corner so there is no overhang on the left. Then horizontally place a light grey 1x4 half cylinder brick behind the ppp.

10.8. Horizontally place your part upright on the 4 front-facing side studs so the tiles are on the bottom and it hangs 1 row down.

11. Let's make a part! Horizontally place a dark grey 2x8 plate in front of you. Then vertically place a light grey 1x1 plate with a 1x1 slope tile on the leftmost column so it slopes to the back. Then repeat symmetrically to the right.

12. Place a yellow 1x1 round plate on the front row on the 2nd column from the left. Then repeat symmetrically to the right.

13. Horizontally place a light grey 1x2 brick with 2 side studs on the front left corner so the side studs face the front. Then repeat symmetrically to the right.

14. Place a black 2x2x10 support on top so it is centered horizontally and the middle post faces the left.

You will have an extra white 1x4 tile. Save it for later!

Group 18 - Light Gantry

15.1. Let's make another part! Vertically place a dark grey 2x3 plate in front of you. Then horizontally place a light grey 1x4 half cylinder brick on the back row so it overhangs 2 columns to the right.

15.2. Vertically place a dark grey 2x3 plate underneath the rightmost column so 2 rows are exposed to the front and 1 column is exposed to the right.

15.3. Horizontally place a white 1x4 tile from group 17 on the front left corner so there is no overhang on the left. Then horizontally place a light grey 1x4 half cylinder brick behind the ppp.

15.4. Horizontally place a light grey 1x4 half cylinder brick on the back right corner so it overhangs 3 columns to the right. Now vertically place a dark grey 2x3 plate underneath the 2 rightmost columns so 2 rows are exposed to the front.

15.5. Horizontally place a red 1x4 tile on the front right corner so there is no overhang on the right. Then horizontally place a light grey 1x4 half cylinder brick behind the ppp.

15.6. Horizontally place your part upright on the front-facing side studs of your previous part so it is centered horizontally, the 1x4 tiles are on the bottom, and it hangs 1 row down.

16. Let's make a part! Horizontally place a black 1x10 plate in front of you. Then horizontally place a black 1x2 brick with an axle hole on the 2 rightmost columns.

17. Horizontally place a black 1x10 brick on top so it overhangs 2 columns to the left.

Group 19 - Light Gantry

18. Place the 2nd row from the front of a dark grey 4x4 plate with inverted slope sides underneath the 2 leftmost columns so 2 columns are exposed to the left and the inverted slope sides face the front and back. Now horizontally place a white 1x4 tile on the 4 leftmost columns of the 2nd row from the back. Then horizontally place a black 1x3 plate on the front row on the 2nd, 3rd, and 4th columns from the left.

19. Place a green 1x1 brick on the 2nd row from the front on the 2nd column from the left.

20. Horizontally place a white 1x8 tile on the 8 rightmost columns. Then horizontally place a white 1x2 tile to the left of the ppp.

21. Place a dark grey 2x2 corner plate on the front 2 rows of the 3rd and 4th columns from the left so it looks like the braille letter j. Then place a transparent 1x1 round tile to the left of the back row of the ppp.

22. Let's make another part! Horizontally place a black 1x3 plate in front of you. Then horizontally place a dark grey 1x6 plate on top so it overhangs 3 columns to the left.

Group 20 - Light Gantry

23. Horizontally place a light grey 1x6 plate underneath the 3 leftmost columns so 3 columns are exposed to the left.

24. Horizontally place a dark grey 1x5 plate on the 3 leftmost columns so it overhangs 2 columns to the left. Then horizontally place a black 1x2 plate underneath the 2 leftmost columns.

25. Horizontally place the back row of a dark grey 4x4 plate with inverted slope sides underneath the 4 leftmost columns so the inverted slope sides face the front and back. Now horizontally place a white 1x4 tile on the 3rd row from the front of the ppp. Then horizontally place a black 1x2 plate on the front left corner.

26. Horizontally place the 4 rightmost columns of your part on the 4 leftmost columns of the back row of the previous part.

27. Horizontally place a red 1x6 tile on the 2nd row from the front on the 3rd, 4th, 5th, 6th, 7th, and 8th columns from the left.

28. Let's make a part! Horizontally place a black 1x10 plate in front of you. Then horizontally place a black 1x2 brick with an axle hole on the 2 leftmost columns.

29. Horizontally place a black 1x10 brick on the 8 rightmost columns so it overhangs 2 columns to the right.

30. Horizontally place a white 1x8 tile on the 8 leftmost columns. Then horizontally place a white 1x2 tile to the right of the ppp.

31. Horizontally place the 2 rightmost columns of your part on the previous part, on the 2nd row from the front of the 2 leftmost columns.

32. Vertically place a dark grey 1x2 plate on the front 2 rows on the leftmost column of studs. Then place a transparent 1x1 round tile to the right of the back row of the ppp.

33. Let's make a part! Place a red 2x2 inverted sloped curved tile in front of you so it slopes to the left.

34. Horizontally place a dark tan 1x4 tile with 2 studs on the back right corner so 3 columns overhang to the right. Then repeat symmetrically to the front.

35. Vertically place a black 2x4 tile printed with F1 in red on the 2 leftmost columns so it is centered vertically.

36. Vertically place a black 1x2 plate underneath the rightmost column. Then vertically place another 1 underneath the 3rd column from the right.

You will have 5 extra transparent 1x1 round tiles. Save them for later!

Group 21 - Light Gantry

37.1. Let's make another part! Horizontally place a black 1x10 plate in front of you. Then horizontally place a red 1x4 plate underneath the 4 leftmost columns. Then repeat symmetrically to the right.

37.2. Place a red 1x1 round tile on the rightmost column. Then place 4 more to the left so there is a 1 column gap in between each of them.

37.3. Place 5 transparent 1x1 round tiles on top, to the right of each of the 5 ppp.

37.4. Vertically place your part on the rightmost column of your previous part so it is centered vertically.

38. Bring back your previous part so it is horizontal and the 1x11 studs are on the back row. Now rotate your current part so it is horizontal and the 2x4 tile faces the front. Then horizontally place the back row of

your part on the 2nd row from the back so it is centered horizontally and can move 1 column to the left and right.

Group 22 - Light Gantry

39.1. Let's make a part! Horizontally place a black 2x6 plate in front of you. Then place a transparent 1x1 round tile on the back right corner. Then place 2 more to the left so there is a 1 column gap in between each of them.

39.2. Horizontally place your part on the front 2 rows of studs of the previous build so the 4 rightmost columns sit behind the 2x4 tile.

40. Place a dark grey 2x2 corner plate on the front 2 rows of studs on the 2nd and 3rd columns from the left so it looks like the braille letter j. Make sure you do not count the tiles as columns! Then place 3 more to the right, 1 to the right of the other, so they all look like the braille letter j.

41. Vertically place a dark grey 1x4 tile on the leftmost column. Make sure you do not count the tiles as columns! Then vertically place 5 more to the right so there is a column gap in between each of them.

42. Place 5 black 1x1 slope tiles on the front row of studs in between the 6 ppp so they slope to the front. Then repeat symmetrically to the back.

43. Insert a dark grey 4L axle with a stop into the leftmost front-facing axle hole so the axle faces the back. Then repeat symmetrically to the right.

44. Vertically place the previous 2x8 part with a support in front of you so the upright half cylinder bricks face the right. Then rotate your current part 180 degrees so the 2x4 tile is in the back, then attach the left front-facing axle to the top-facing axle hole of the support so the 2x4 tile faces the front. Now locate your other 4x12 part with a support and vertically place it in front of you so the upright half cylinder bricks face the left. Now attach the right bottom-facing axle of your build to the support. Now you can move the 2x4 tile that is on the top row to the left and right to move the red and transparent 1x1 round tiles back and forth so the drivers know when to race!

45. Let's make a part! Place a black 3x3 quarter circle plate in front of you so the curve faces the back left. Then place another 1 to the right of the ppp so the curve faces the back right.

46. Horizontally place a black 1x2 log brick on the back row so it is centered horizontally and connects the 2 ppp.

47. Place a black 1x2 curved brick on the back left corner to the left of the ppp so the curve faces the back left. Then repeat symmetrically to the right.

48. Vertically place a black 1x2 log brick on the front right corner so it overhangs 1 row to the front. Then vertically place a black 1x2 brick with a clip on the long side on the front left corner so it overhangs 1 row to the front and the clip faces the left.

49. Horizontally place a black 2x6 plate underneath the overhang so it is centered horizontally.

50. Place a short black 1x1 brick on the front left corner. Then repeat symmetrically to the right.

51. Place a red 1x3 curved plate on the back left corner so the curve faces the back left. Then repeat symmetrically to the right.

52. Vertically place a red 1x2 sloped curved tile on the front left corner so it slopes to the front. Then repeat symmetrically to the right.

53. Place a black 4x4 plate with a 2x2 gap underneath the front 4 rows so it is centered horizontally.

54. Vertically place your part on top of the 2nd and 3rd columns from the right and 3rd and 4th rows from the front so the 2x2 gap of the 4x4 plate with a 2x2 gap sits on the 2x2 plate and the round side faces the left. Make sure the clip faces the front!

55. Horizontally place a gold trophy on the back row of the ppp so it sits to the left of the 1x2 sloped curved tile. Now attach a black 4L bar to the front-facing clip on the 2nd column from the right. Then attach a black and white checkered flag to the top of the bar so it overhangs to the front. This is a booth where the race marshal will stand!

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!

Bricks for the Blind is a registered tax exempt 501(c)(3) corporation.

At the end of the instruction booklets are advertisements for the following 5 LEGO CITY Formula 1 Theme kits:

60445 F1® Truck with RB20 & AMR24

60442 F1® Driver with McLaren Race Car

60444 F1® Garage & Mercedes-AMG & Alpine Cars

60464 F1® Williams Racing & Haas

60443 F1® Pit Stop & Pit Crew with Ferrari Car