

60443 F1 Pit Stop & Pit Crew with Ferrari Car

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Bring the thrill of the racetrack to kids' play with the LEGO® City F1® Pit Stop & Pit Crew with Ferrari Car (60443) vehicle toy building set for ages 6 and over. This set includes everything kids need for lightning-fast pit stops, including fresh slicks, wheel guns and a crew who move into position at the flick of a switch for turbocharged tire changes. Complete with a toy Formula 1® Ferrari race car, plus driver and 4 pit crew minifigures, this playset is fine-tuned for young racing enthusiasts.

LEGO® F1® vehicle toy – Bring the excitement of Formula 1® racing to kids' play with the LEGO City F1 Pit Stop & Pit Crew with Ferrari Car set for ages 6 and over.

What's in the box? – Everything kids need to build an F1® pit and Ferrari toy car, plus driver and 4 pit crew minifigures.

An F1® model building set with fun functions – Drive the car into the pit box and press a lever to move the pit crew into position for a turbocharged tire change.

F1® LEGO® set with accessories for realistic pit stop action – LEGO minifigure accessories include tools, fresh slicks and wheel guns.

A fun Christmas or birthday gift for kids – Surprise your budding racer with this LEGO® City F1® themed playset for boys and girls aged 6 and over.

Dimensions – The pit box model in this 322-piece LEGO® City set measures over 8 cm (3 in.) high, 14 cm (5.5 in.) wide and 5 cm (2 in.) deep.

The front of the box shows a race track with an F1 pit crew changing out the tires and fixing up the Ferrari Car! They have to be fast so the car can get back to the race!

The back of the box shows the Ferrari car taking off from the pit stop! The driver is waving back at the pit crew to say thank you!

The top of the box shows a real size image of a tire!

The build is 322 pieces in total and is for ages 6+.

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/60443>) 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 to 3, 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.

Bag 1 - Driver and Ferrari Car

Group 1 - Page 7.

Group 2 - Steps 1-18.

Group 3 - Steps 19-31.

Group 4 - Steps 32-35 and 1 red 1x2 sloped curved tile from Step 36.

Group 5 - Rest of Step 36, Steps 37-40, and 1 black 1x2 sloped curved tile from Step 41.

Group 6 - Rest of Step 41 and Steps 42-43.

Bag 2 - F1 Pit Stop and Pit Crew

Group 7 - Page 3.

Group 8 - Steps 1-15.

Group 9 - Steps 16-26.

Group 10 - Steps 27-36.

Group 11 - Steps 37-46.

Bag 3 - F1 Pit Stop and Pit Crew

Group 12 - Page 45.

Group 13 - Steps 47-65.

Group 14 - Steps 66-86.

Group 15 - Steps 87-101.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Driver

Sub-build 1. Locate 1 red pair of legs, 1 red torso printed with a horse logo, 1 yellow head printed with eyes and lips, 1 red helmet printed with a horse logo, and 1 transparent visor. Assemble your minifigure, then attach the helmet to his head so the opening faces the front. Now attach the visor to the front of the helmet! Now put him away while we make the car!

Group 2 - Ferrari Car

1. Horizontally place a light grey 2x4 plate in front of you.
2. Vertically place a black 2x2 plate with 2 round parts with 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 with a 1x2 brick with a pinhole to the right of the plate so the brick with a pinhole is on 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 bricks with axle holes on the ends to the right-facing axle. Now insert a blue 2L axle pin into the right-facing axle hole so the pin faces the right.
8. Horizontally place a white 1x2 plate with 2x2 side studs hanging down on the front row of the 4th and 5th columns from the left so the side studs face the front. Then repeat symmetrically to the back.
9. Vertically place a black 2x4 trapezoid plate on the 2nd and 3rd columns from the left so it is centered vertically and the short side faces the left.
10. 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.
11. Place a dark grey 2x2 slope brick on the 4th and 5th columns from the right so it slopes to the right.

12. Place a dark grey 2x2 sloped curved tile on the 5th and 6th columns of studs from the left so it slopes to the right.
13. Place 2 red 2x2 double sloped curved bricks with 2 studs, 1 to the right of the other, on the 4 leftmost columns of studs so they slope to the front and back.
14. Horizontally place a red 1x2 plate with 1x2 anti side studs on the 3rd and 4th columns of studs from the left so the anti-studs face the right.
15. Vertically place a black 1x2 jumper plate with a round side on the 4th column of studs from the left so it is centered vertically and the round side faces the left.
16. Horizontally place a red 1x4 sloped curved brick on the 4 leftmost columns of studs so it slopes to the left.
17. Place a black 1x1 plate upright on the top right-facing anti-stud that is on the 5th column from the left.
18. Attach the bar of a black 2x2 plate with a bar underneath to the 2 leftmost top-facing clips so the plate overhangs 1 column to the left. Now vertically place a black 2x4 sloped curved tile printed with the word Ferrari on it on top of the ppp so it is centered vertically and slopes to the right.

Group 3 - Ferrari Car

- 19.1. Let's make a part! Horizontally place a dark grey 2x3 plate with a round side and a pinhole in front of you so the round side faces the right. Now place a black 2x2 plate with 2 round parts and 2 pins on top so the pins face the front and back.
- 19.2. Place a light grey 1x2 plate with a 1x2 brick with a pinhole on the leftmost column so the brick with a pinhole overhangs to the left. Then vertically place a white 1x2 plate underneath the leftmost column. Now vertically place another 1 on the rightmost column.
- 19.3. Vertically place a white 1x2 plate on the rightmost column. Then place a black 2x2 plate on the 2 rightmost columns.
- 19.4. Horizontally attach the left-facing pinhole of your part to the right-facing pin of the main build.
20. Horizontally place a white 1x2 plate with 2x2 side studs hanging down on the front row of the 3rd and 4th columns of studs from the right so the side studs face the front. Then repeat symmetrically to the back.
21. Vertically place a white 1x2 plate on the 2nd column of studs from the right.
22. Let's make a part! Horizontally place a dark grey 1x5 plate in front of you.
23. Vertically place a black 1x3 rounded plate on top so it is centered horizontally and vertically.
24. Horizontally place a black 2x3 angled plate on the 2 leftmost columns so the angled side overhangs to the front and the short end overhangs 1 column to the left. Then repeat symmetrically to the right. They should look like airplane wings.

25. Horizontally place a black 1x3 jumper plate on the 2nd row from the back so it is centered horizontally.
26. Place a black 1x1 quarter circle tile to the left of the ppp so the curve faces the front left. Then repeat symmetrically to the right.
27. Place a red 1x1 slope tile on the leftmost column so it slopes to the front. Then repeat symmetrically to the right. Then place another 1 on the front row so it is centered horizontally and slopes to the front.
28. Horizontally place a white 1x2 plate on the back row so it is centered horizontally.
29. Vertically place a red 2x4 sloped curved brick printed with 2 white lines and a horse on a yellow rectangle on the back 2 rows so it is centered horizontally, slopes to the front, and overhangs 2 rows to the back.
30. Rotate your part 90 degrees counterclockwise so the 2x4 sloped curved brick overhangs to the left. Now place the 2 leftmost columns of your part on the 2 rightmost columns of studs so it is centered vertically.
31. Place a red 2x2 plate with 2 side studs on the 2 rightmost columns of studs so the side studs face the left. Now horizontally place a dark grey 1x2 rounded tile printed with buttons upright on the left-facing side studs of the ppp.

Group 4 - Ferrari Car

- 32.1. Let's make a part! Horizontally place a light grey 1x8 plate in front of you. Then horizontally place a black 1x4 panel on the 4 leftmost columns so the wall faces the front. Then horizontally place a white 1x2 plate to the right of the ppp.
- 32.2. 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.
- 32.3. Horizontally place a black 1x3 tile on the 3rd and 4th columns from the right so 1 column overhangs to the right over the 1x2 grill slope tile.
- 32.4. Horizontally place your part upright on the bottom row of front-facing side studs so it sits on 4 side studs and the 1x2 grill slope tile is on the right.
33. Place a black 1x1 plate with a clip upright on the leftmost front-facing side stud so the clip faces up.
34. Horizontally place a red 1x6 plate with a rounded lip upright on the front-facing side studs, to the right of the ppp so the lip faces up.
35. Horizontally place a red 1x4 sloped curved brick upright on the 4 leftmost front-facing side studs so it slopes to the left.
- 36.1. Horizontally place a red 1x2 sloped curved tile upright on the 2 leftmost front-facing side studs, to the right of the ppp so it slopes to the right.

Group 5 - Ferrari Car

36.2. Horizontally place a black 1x2 sloped curved tile upright on the front-facing side studs to the right of the ppp so it slopes to the right.

37.1. Let's make a part! Horizontally place a light grey 1x8 plate in front of you. Then horizontally place a black 1x4 panel on the 4 rightmost columns so the wall faces the front. Now horizontally place a white 1x2 plate to the left of the ppp.

37.2. 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. Now 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.

37.3. Rotate your main build 180 degrees. Then horizontally place your part upright on the bottom row of front-facing side studs so the 1x4 panel is on the right. It should sit on 4 studs!

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

39. Horizontally place a red 1x6 plate with a rounded lip upright on the front-facing side studs, to the left of the ppp so the lip faces up.

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

41.1. Horizontally place a black 1x2 sloped curved tile on the 2 leftmost front-facing side studs so it slopes to the left.

Group 6 - Ferrari Car

41.2. Horizontally place a red 1x2 sloped curved tile to the right of the ppp so it slopes to the left.

42.1. Let's make a part! Horizontally place a black 12L bendable bar in front of you. Then attach a red barholder with a handle to the right-facing bar. Then repeat symmetrically to the left.

42.2. Attach the right-facing handle of your part to the front top-facing clip that is on the 6th column from the right, then repeat symmetrically to the back so the bendable bar is curved. Now orient the part so it goes down and to the left.

43.1. Let's make 4 identical parts! Place 1 black 2x2 round tile with a pinhole printed with red lines on a black wheel.

43.2. Now you should have 4 identical parts! Place 1 part upright on the leftmost front-facing pin so the round tile faces the front. Then repeat symmetrically to the right. Now repeat both parts symmetrically to the back. Now put your car away while we make the pit stop and the pit crew!

Building Instructions (Bag 2, Book 2):

Group 7 - Pit Crew

Sub-build 2.1. Locate 1 dark grey pair of legs, 1 orange torso printed with pockets, 1 yellow head printed with eyes, lips, and eyelashes, and 1 white helmet. Assemble your minifigure then put her away while we make another!

Sub-build 2.2. Locate 1 dark grey pair of legs, 1 orange torso printed with pockets, 1 yellow head printed with eyes, lips, and a mustache, and 1 white helmet. Assemble your minifigure then put him away while we make the pitstop!

Group 8 - Pit Stop

1. Place a black 8x8 plate in front of you. Then horizontally place a white 1x10 plate on the back row so 2 columns overhang to the left.
2. Vertically place a dark grey 2x4 tile on the 2 rightmost columns, in front of the ppp. Now horizontally place a dark grey 1x8 plate to the left of the back row of the ppp so it overhangs 2 columns to the left. Then horizontally place a white 1x2 tile in front of the 2 rightmost columns of the ppp.
3. Place a brown 2x2 tile with a round part in front of the ppp. Now horizontally place a dark grey 2x4 tile on the 4 rightmost columns of the 2nd and 3rd rows from the front. Then horizontally place a white 1x6 tile on the front right corner. Now vertically place a dark grey 2x4 tile on the 3rd and 4th columns from the left of the 3rd to 6th rows from the front.
4. Place the back 2 rows of a black 8x8 plate underneath the 2 leftmost columns.
5. Horizontally place a dark grey 1x8 plate on the 2nd row from the front of the 5th to 12th columns from the left. Then horizontally place a dark grey 1x4 tile with 2 studs on the 3rd row from the front, on the 3rd to 6th columns from the left. Now horizontally place another 1 to the right of the ppp.
6. Vertically place a dark grey 1x8 plate on the 3rd column from the left so 3 rows overhang to the back. Now horizontally place a yellow 1x2 plate to the right of the front row of the ppp. Then vertically place a dark grey 1x8 plate to the right of the ppp so 3 rows overhang to the back.
7. Rotate your build 180 degrees. Now horizontally place a red 2x4 plate underneath the front 2 rows of the 3rd to 6th columns from the right.
8. Vertically place a white 2x8 plate on the 4th and 5th columns from the right so 1 row overhangs to the front.
9. Place 2 black 1x1 plates with 2 upright side studs, 1 to the right of the other, underneath the front row of the ppp so the side studs face outwards to the left and right. Then repeat symmetrically to the left.
10. Rotate your build 180 degrees. Now horizontally place a white 1x10 plate on the back 2 rows of the 2 leftmost columns so 8 columns overhang to the left.
11. Place the back row of a black 8x8 plate underneath the 8 leftmost columns.

12. Vertically place a dark grey 2x4 tile on the 2nd to 5th rows from the back of the 2 leftmost columns. Then horizontally place a dark grey 1x8 plate to the right of the back row of the ppp. Now horizontally place a white 1x2 tile in front of the 2 leftmost columns of the ppp.

13. Horizontally place a white 1x6 tile on the front left corner. Then horizontally place a dark grey 2x4 tile on the 4 leftmost columns, behind the ppp. Now place a brown 2x2 tile with a round part behind the 2 rightmost columns of the ppp. Then horizontally place a white 1x2 tile behind the ppp. Now vertically place the back row of a dark grey 2x4 tile to the right of the ppp.

14. Horizontally place a dark grey 1x8 plate on the 2nd row from the front, on the 5th to 12th columns from the left. Then horizontally place a dark grey 1x4 tile with 2 studs behind the ppp so it sits to the left of the 1x4 tiles with 2 studs.

15. Horizontally place 2 white 1x2 tiles, 1 to the right of the other, on the front row so together they are centered horizontally. Now horizontally place a dark grey 2x4 tile to the left of the 2 ppp so 1 row overhangs to the front. Then repeat symmetrically to the right.

Group 9 - Pit Stop

16. Vertically place 2 blue 1x8 tiles, 1 to the right of the other, on the back 8 rows so together they are centered horizontally.

17. Vertically place 2 light grey 1x4 half cylinder bricks, 1 in front of the other, on the back 8 rows, to the left of the 2 ppp. They should sit 1 row in front of the ppp. Then repeat symmetrically to the right.

18. Horizontally place a black 1x2 tile on the back row to the right of the 2 ppp. Then repeat symmetrically to the left.

19. Horizontally place a blue 1x2 brick with 2 side studs on the 4th row from the front so it is centered horizontally in between the 1x4 half cylinder bricks and the side studs face the back. Now horizontally place a light grey 1x4 arch brick in front of the ppp so it is centered horizontally.

20. Place a black 1x1 round plate on the leftmost column of the ppp. Then repeat symmetrically to the right. Now vertically place the front row of 2 black 1x2 plates with a clip on the short end in between the 2 ppp so the clips face the front.

21. Horizontally place 2 white 1x1 plates with a slope tile, 1 to the right of the other, on the front row of the 2 ppp so together they are centered horizontally and slope outwards to the left and right.

22. Let's make a part! Horizontally place a dark grey 2x8 plate in front of you. Then vertically place a black 1x2 plate with a 4L cylinder on the leftmost column so the cylinder is on the left.

23. Horizontally place 2 black 1x2 plates with an upright bar, 1 in front of the other, on the 2 rightmost columns so the bars face outwards to the front and back. Then vertically place a yellow 1x2 plate to the left of the 2 ppp. Now horizontally place a black 2x4 plate to the left of the ppp.

24. Horizontally place a blue 1x8 tile on the front row. Then repeat symmetrically to the back.

25.1. Let's make 2 identical parts! Place a red 1x1 round plate on the stud of a white 1L pin with a stud.

25.2. Now you should have 2 identical parts! Place 1 on the front top-facing bar so the pin faces up. Then repeat symmetrically to the back.

26. Vertically place your part on the 2 1x8 tiles that are centered horizontally on the main build so it doesn't attach to any studs and the 4L cylinder is in the back. It should be able to move to the front and back.

Group 10 - Pit Stop

27. Let's make a part! Horizontally place a white 2x8 plate in front of you. Then place a white 1x2 plate with a 1x2 inverted sloped curved brick on the leftmost column so it slopes and overhangs to the left.

28. Horizontally place a white 2x8 plate on the 7 rightmost columns so 1 column overhangs to the right.

29. Vertically place a white 1x2 tile on the 2nd column from the left.

30. Horizontally place 2 white 1x3x2 inverted half arch bricks, 1 in front of the other, to the right of the ppp so they slope to the left.

31. Vertically place a red 1x2 plate on top of the 2 ppp. Then vertically place a white 1x2 tile to the right of the ppp.

32.1. Horizontally place a white 1x4x3 panel with a sticker on the front right corner so the wall faces the back. Then repeat symmetrically to the back.

32.2. Skip this step if you have already placed your stickers! Ask a helper to place sticker 3 on each of the white 1x4x3 panels. These stickers say F1 in red. Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

33. Rotate your part 90 degrees clockwise so it slopes to the back. Now vertically place the front row of your part on the 4th row from the front so it sits on the 1x1 plates with a 1x1 slope tile and is centered horizontally. It should only sit on 2 studs and tiles!

34. Place a red 1x1 plate with 2 side studs hanging down on the back left corner of your previous part so the side studs face the left. Then repeat symmetrically to the right.

35. Horizontally place a red 1x2 plate on top of the 2 ppp. Now horizontally place a red 1x2 brick on top of the ppp. Then place a red 1x1 plate with 2 side studs hanging down on the left column of the ppp so the side studs face the left. Then repeat symmetrically to the right.

36. Vertically place a red 1x6 tile upright on the 6 right-facing side studs. Then repeat symmetrically to the left.

Group 11 - Pit Stop

37. Horizontally place a black 1x3x2 inverted half arch brick on the back row of the 6th to 8th columns from the left so it slopes to the right. Then repeat symmetrically to the right.

38. Place a black 1x1x5 brick to the right of the ppp. Then repeat symmetrically to the left.
39. Place a black 2x2x5 curved corner panel on the back 2 rows of the 3rd and 4th columns from the left so the curve faces the back left. Then repeat symmetrically to the right.
40. Horizontally place a black 1x4x3 half arch brick on the back row of the 6th column from the left so it arches to the right. It should sit on a 1x3x2 inverted half arch brick! Then repeat symmetrically to the right.
41. Horizontally place a black 1x6 plate in between the 2 ppp so it is centered horizontally and sits on 2 studs.
42. Horizontally place a black 1x10 plate on top of the ppp so it is centered horizontally.
43. Place a black 1x1 brick with a side stud on the back row of the 6th column from the left so the side stud faces the front. Then repeat symmetrically to the right.
44. Horizontally place a dark grey 8x16 tile with a middle 2x4 stud area and 1x4 gaps of studs on the sides underneath the front row so it is centered horizontally.
45. Vertically place a dark grey 2x4 tile on the middle 2x4 stud area of the ppp. Then vertically place the 1x4 part of a dark grey 4x8 sloped curved tile with a 1x4 tile part on the leftmost column of the 3rd to 6th rows from the front so it slopes and overhangs 4 columns to the left. Then repeat symmetrically to the right.
46. Attach the handles of 2 black blasters with studs to the 2 front-facing clips that are on the 10th row from the front so together they are centered horizontally and face the front.

Building Instructions (Bag 3, Book 2):

Group 12 - Pit Crew

Sub-build 3.1. Locate 1 dark grey pair of legs, 1 orange torso printed with pockets, 1 yellow head printed with eyes, lips, and eyelashes, 1 black blaster, and 1 white helmet. Assemble your minifigure, attach the blaster to her hand, then put her away while we make another minifigure!

Sub-build 3.2. Locate 1 dark grey pair of legs, 1 orange torso printed with pockets, 1 yellow head printed with eyes, lips, and a light brown beard, 1 black blaster, and 1 white helmet. Assemble your minifigure, attach the blaster to her hand, then put him away while we continue the pit stop build!

Group 13 - Pit Stop

47. Let's make a part! Horizontally place a red 2x14 plate in front of you. Then vertically place a light grey 1x2 slope brick on the leftmost column so it slopes to the back. Then repeat symmetrically to the right.
48. Horizontally place a dark grey 1x4 plate on the front row, on the 2nd to 5th columns from the left. Then vertically place a dark grey 1x2 plate to the right of the ppp. Now repeat both parts symmetrically to the right.

49. Horizontally place a dark grey 2x4 tile on the back row of the 2nd to 5th columns from the left so it overhangs to the back. Then repeat symmetrically to the right. Now vertically place a light grey 2x3 brick on top so it is centered horizontally and overhangs 1 row to the front.

50. Horizontally place 2 light grey 1x2 plates with a stud and a clip, 1 in front of the other, on the 5th and 6th columns from the left so the clips are on the left. Then repeat symmetrically to the right.

51. Vertically place 2 black 1x2 jumper plates, 1 to the right of the other, on the back 2 rows so together they are centered horizontally. Now vertically place a black 1x2 slope tile to the left of the 2 ppp so it slopes to the left. Then repeat symmetrically to the right.

52. Place a red 2x2 round plate underneath the front row so it is centered horizontally and 1 row is exposed to the front.

53. Horizontally place a light grey 1x2 panel with a round side on the front row of the ppp so the round side faces the front.

54. Place a light grey 2x2 round tile on the front 2 rows so it is centered horizontally. Now horizontally place a light grey 1x2 rounded plate on the 2 black 1x2 jumper plates so it is centered horizontally.

55. Horizontally place the back row of your part on the front row of the main build so it is centered horizontally.

56. Vertically place the back row of a red 2x4 plate on the 1x10 plate that is above the half arch bricks and inverted half arch bricks so it is centered horizontally. It should sit on 3 rows of studs.

57. Horizontally place 2 red 1x4 rounded plates, 1 to the right of the other, to the right of the back row of the ppp. Then place a red 1x1 round plate on the 2nd row from the back of the 3rd column from the right. Now repeat all 3 parts symmetrically to the left. Then vertically place a red 2x3 plate with a round side with a pinhole in front of the 2x4 plate from the previous step so the round side overhangs to the front.

58. Horizontally place 2 black 1x2 inverted half arch bricks, 1 to the right of the other, on the back row of the 2x4 plate from step 56 so together they are centered horizontally and slope outwards to the left and right.

59. Horizontally place a black 1x6 tile to the right of the 2 ppp. Then place a black 1x2 curved tile to the right of the ppp so the curve faces the back right. Then repeat both parts symmetrically to the left.

60.1. Place a red 2x2 tile with a sticker upright on the rightmost front-facing side stud that is on the 6th column from the right so it is centered on it.

60.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 4 on a red 2x2 tile. This sticker has a blue bar graph on it! Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

60.3. Place a red 2x2 tile with a sticker upright on the leftmost front-facing side stud that is on the 6th column from the left so it is centered on it.

60.4. Skip this step if you have already placed your sticker! Ask a helper to place sticker 2 on a red 2x2 tile. This sticker has a blue bar graph on it! Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

61. Vertically place a black 2x6 brick in front of the 2 1x2 inverted half arch bricks that are centered horizontally on the back row, excluding the moving parts, so it is centered horizontally.

62. Horizontally place a light grey 1x2 plate with an upright 2x2 anti-studs on the front row of the ppp so the anti-studs face the front. Now vertically place 2 light grey 1x6 plates, 1 to the right of the other, behind the ppp.

63. Vertically place a black 2x6 plate on the 2 ppp.

64. Vertically place 2 red 1x6 sloped curved bricks with a 1x2 plate, 1 to the right of the other, on the back 2 rows of the ppp so it slopes to the back.

65. Horizontally place a red 1x2 grill tile on the back row of studs of the 2 ppp so it is centered horizontally. Then vertically place a red 2x4 plate in front of the ppp so there is a 1 row gap in between them.

Group 14 - Pit Stop

66. Let's make a part! Place a black 1x7 curved plate in front of you so the curve faces the back right. Then horizontally place a red 1x4 rounded plate on the back row so it overhangs 2 columns to the left.

67. Place a black 1x9 curved plate underneath the 2 leftmost columns so the curve faces the back left.

68. Place a red 1x1 round plate on the back left corner so it sits on the 1x7 curved plate. Then repeat symmetrically to the right. Now vertically place a red 1x4 rounded plate on the front left corner so 2 rows overhang to the front. Then repeat symmetrically to the right.

69. Place a red 1x6 curved tile on the back right corner so the curve faces the back right. Then repeat symmetrically to the left.

70. Vertically place a black 1x3 plate underneath the front left corner so 1 row is exposed to the front. Then repeat symmetrically to the right.

71. Place the hole of a black whip on the front left corner so the handle is in the front right. Then repeat symmetrically to the right.

72. Vertically place a red 1x4 tile on the front left corner. Then repeat symmetrically to the right.

73. Place the handles of the whips of your part on the 1x2 rounded plate that is on the 3rd row from the front so it is centered horizontally, and the back row sits on the 1x2 plate with 2x2 anti side studs.

74.1. Place a black 2x2 inverted tile with a sticker upright on the 2x2 front-facing anti side studs. Then vertically place a red 2x6 tile behind the ppp so it is centered horizontally.

74.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 7 on a black 2x2 inverted tile. This sticker has a graph with the number 1.95 on it. Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

75. Let's make a part! Place a dark grey 4x4 round plate in front of you.

76. Place a red 2x2 round plate on the 2 rightmost columns so it is centered vertically. Then horizontally place a light grey 2x3 plate to the left of the ppp so it is centered vertically and overhangs 1 column to the left.

77. Horizontally place a dark grey 2x12 plate underneath the leftmost column so it is centered vertically.

78. Place 2 black 1x1 round plates, 1 in front of the other, on the rightmost column. Now horizontally place a light grey 1x10 sloped curved brick with a 1x2 plate to the left of the back ppp so it slopes to the left.

79. Horizontally place a black 1x2 plate with an upright bar on the long side on the 2nd row from the front of the 2nd and 3rd columns from the right so the bar is in the front. Then horizontally place a black 1x2 grill slope tile to the left of the ppp so it slopes to the left.

80. Place a light grey 2x2 round tile on the 2 rightmost columns so it is centered vertically. Then vertically place a light grey 1x2 plate with a stud and a clip to the left of the ppp so the clip is in the back.

81. Place a tan 2x2 inverted round tile with a rounded bottom underneath the front left corner so 1 row is exposed to the front.

82. Horizontally place a dark grey 1x2 plate on the front row of the ppp.

83. Place a light grey 2x2 tile with an upright 1x2 plate on the front left corner so the studs face the right.

84. Let's make a part! Place a red 1x1 round plate on the stud of a white 1L pin with a stud. Now place it upside down on the upright bar that is on the 2nd column from the right so the pin faces up.

85.1. Horizontally attach the stop side of a black 6L bar with a stop to the top-facing clip. Now attach a black 2x2 tile with a clip and a sticker to the left end of the bar so the tile faces the front.

85.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 6 on a black 2x2 tile with a clip underneath. This sticker has a yellow background with a black arrow on it. Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

86. Horizontally place the 2nd and 3rd columns from the right of your part on the 2x2 tile with a round part that is on the back left corner of the main build so it overhangs to the left. It should be able to spin around freely.

Group 15 - Pit Stop

87.1. Let's make a part! Horizontally place a light grey 9L lift arm in front of you so the pinholes face up. Now place a white 1L pin with a stud on top so it is centered horizontally and the stud faces up.

87.2. Place a black 2L bar with a stop on top of the ppp. Now attach a black 2x2 tile with a clip and a sticker to the top of the ppp so the tile faces the front.

87.3. Skip this step if you have already placed your sticker! Ask a helper to place sticker 5 on the black 2x2 tile with a clip. This sticker has a bunch of buttons on it! Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

87.4. Place the left end of your part on the leftmost top-facing pin that is on the 5th row from the back of the 15th column from the left. Then place the right end of your part on the top-facing pin that is in the back right. Your part should now be diagonal and point to the front left and back right.

88. Let's make a part! Place a dark grey 4x4 round plate in front of you.

89. Place a red 2x2 round plate on the 2 leftmost columns so it is centered vertically. Now horizontally place a light grey 2x3 plate to the right of the ppp so 1 column overhangs to the right.

90. Horizontally place a dark grey 2x12 plate underneath the rightmost column so 11 columns are exposed to the right.

91. Place 2 black 1x1 round plates, 1 in front of the other, on the leftmost column. Now horizontally place a light grey 1x10 sloped curved brick with a 1x2 plate to the right of the back ppp so it slopes to the right.

92. Horizontally place a black 1x2 plate with an upright bar on the long side on the 2nd row from the front of the 2nd and 3rd columns from the left so the bar is in the front. Then horizontally place a black 1x2 grill slope tile to the right of the ppp so it slopes to the right.

93. Place a light grey 2x2 round tile on the 2 leftmost columns so it is centered vertically. Then vertically place a light grey 1x2 ingot tile to the right of the ppp.

94. Let's make a part! Place a red 1x1 round plate on the stud of a white 1L pin with a stud. Now place your part upside down on the top-facing bar that is on the 2nd column from the left so the pin faces up.

95. Place a tan 2x2 inverted round tile with a rounded bottom underneath the front right corner so 1 row is exposed to the front.

96. Horizontally place a dark grey 1x2 plate on the front row of the ppp.

97. Place a light grey 2x2 tile with an upright 1x2 plate on the front right corner so the studs face the left.

98. Horizontally place the 2nd and 3rd columns from the left of your part on the 2x2 tile with a round part that is on the back right corner of the main build so it overhangs to the right. It should be able to spin around freely.

99.1. Let's make a part! Horizontally place a light grey 9L lift arm in front of you so the pinholes face up. Now place a white 1L pin with a stud on top so it is centered horizontally and the stud faces up.

99.2. Place a black 2L bar with a stop on top of the ppp. Now attach a black 2x2 tile with a clip and a sticker to the top of the ppp so the tile faces the front.

99.3. Skip this step if you have already placed your sticker! Ask a helper to place sticker 1 on the black 2x2 tile with a clip. This sticker has a line graph on it. Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

99.4. Place the right end of your part on the rightmost top-facing pin that is on the 5th row from the back of the 15th column from the right. Then place the left end of your part on the top-facing pin that is in the back left. Your part should now be diagonal and point to the front right and back left.

100. Vertically place a dark grey axle connector with 2 bars on the 2 clips that are on the 8th column from the right of the front 2 rows so the axle connector is on top and faces the left and right. Now insert a tan 4L axle into the right-facing side of the axle connector so the 3L axle faces the right. Then orient it so the axle faces the top right. Now repeat everything symmetrically to the left.

101.1. Let's make 4 identical parts! Place a black 2x2 round tile with a pinhole on top of a black wheel.

101.2. Now you should have 4 identical parts! Then stack 2 of your wheels on the top right facing axle that is on the front row so the 2x2 round tiles are on top. Then repeat both parts symmetrically to the left.

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