

## **40817 Yellow Travel Suitcase**

Adapted by John Le and tested by Jolene Nemeth.

Grab your passport and get ready for adventure with this LEGO® Yellow Travel Suitcase (40817) luggage model building kit. This vacation-themed set makes a fun gift for kids aged 7 and up, or anyone who loves to travel. The mini suitcase features a retractable handle, functioning wheels and a luggage tag. Open the case to pack the camera, boarding pass, toothbrush and passport – have fun making everything fit! The set comes with a fun sticker sheet to customize the outside of the case.

Luggage model with fun details – This suitcase toy comes with lots of travel-themed accessories, and it makes a great gift for kids or adults who love travel, exploration and vacations.

360-degree wheels – The wheels on this mini luggage spin through 360 degrees, just like those on a real suitcase, and the set's other realistic details include a retractable handle and luggage tag.

A mini suitcase that opens – Look inside this LEGO® travel case to find travel essentials including a camera, boarding pass, toothbrush and passport.

Customize your suitcase – This LEGO® set comes with a sticker sheet so you can customize the outside of the case and make it stand out from the crowd.

Gift for travel-lovers – This travel playset is a fun gift idea for kids aged 7 and up or anyone who enjoys cool LEGO® sets and travel souvenirs.

Measurements – A 184-piece set with a model measuring over 4 in. (10 cm) high, 3.5 in. (9 cm) wide and 1.5 in. (4 cm) deep.

The front of the box shows a yellow suitcase that has a bunch of stickers like a dolphin, hot air balloon, plane, cactus, ice cream, a heart, and more! In the front, there is a camera, ticket, passport, sandwich, and a toothbrush that goes inside the suitcase!

The back of the box shows the suitcase on its side and opened. The passport, ticket, and toothbrush are inside!

The top of the box shows a real size image of a dark red 2x3 tile printed with a passport.

The build is 184 pieces in total and is for ages 7+.

Bag 1 includes the pieces for the suitcase.

Bag 2 includes the pieces for the suitcase.

Bag 3 includes the pieces for the suitcase, sandwich, camera, toothbrush, and passport.

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, els 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/40817>) 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, 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.

Bag 1 - Suitcase

Group 1 - Steps 1-2.

Group 2 - Steps 3-5.

Group 3 - Steps 6-19.

Group 4 - Steps 20-31.

Bag 2 - Suitcase

Group 5 - Steps 32-37.

Group 6 - Steps 38-52.

Group 7 - Steps 53-57.

Group 8 - Steps 58-63.

Bag 3 - Suitcase, Sandwich, Camera, Toothbrush, and Passport.

Group 9 - Steps 64-75.

Group 10 - Step 76 and 1 red 2x2 round plate from Step 77.

Group 11 - Rest of Step 77 and Steps 78-80.

Group 12 - Steps 81-82.

Group 13 - Steps 83-87.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Suitcase

1. Horizontally place a yellow 2x8 plate in front of you. Then vertically place the black 1x2 part of a black 1x4 hinge plate on the leftmost column so the round hinge part is on the left and it overhangs 2 rows to the front. Now rotate the overhang to the left so it is horizontal.

2. Horizontally place a yellow 1x2 plate underneath the 2 leftmost columns, underneath the 1x4 hinge plate.

Group 2 - Suitcase

3. Vertically place a black 1x2 plate on the rightmost column. Then horizontally place a black 1x6 plate on the back row to the left of the ppp.

4. Place a yellow 2x2 corner brick on the 2 rightmost columns so it looks like the braille letter d. Then place another 1 on the 3rd and 4th columns from the left so it looks like the braille letter f.

5. Stack 2 black 1x1 plates on the back row on the 3rd column from the right. Then place a yellow 1x1 tile on top of the ppp. Then repeat everything to the left so there are 2 free columns in between them.

Group 3 - Suitcase

6. Horizontally place a yellow 1x2 plate on the back row in between the 6 ppp. Then horizontally place a yellow 1x2 brick on top of the ppp.

7. Horizontally place a yellow 1x2x2 brick on the 2 leftmost columns. Then place a yellow 2x2 corner brick to the right so it looks like the braille letter f. Now place another 1 on the 2 rightmost columns so it looks like the braille letter d.

8. Place a black 1x4 hinge plate on the 3 leftmost columns so there is no overhang. The round hinge part should face the back left.

9. Vertically place a black 1x2 plate with a hinge connector on the short side on the rightmost column so the connector faces the front.

10. Place a black 1x1 plate on the back row to the left of the ppp. Then place another 1 on the 2nd column from the left of the back row.
11. Place a yellow 2x2 corner brick on the 2 leftmost columns of the back 2 rows so it looks like the braille letter f. Then place another 1 on the 2 rightmost columns so it looks like the braille letter d.
12. Repeat the previous step. Then horizontally place a yellow 1x2x2 brick on the 2 leftmost columns.
13. Place a black 1x4 hinge plate on the 3 leftmost columns so there is no overhang and the round hinge part faces the back left.
14. Place a black 2x2 corner plate on the 2 rightmost columns so it looks like the braille letter d. Then place a black 1x1 plate on the 2nd column from the left of the back row.
15. Horizontally place a light blue 1x6x5 panel on the front row to the left of the rightmost column so the wall faces the back.
16. Stack 2 yellow 2x2 plates on the 2 rightmost columns. Then stack another 2 on the 3rd and 4th columns from the left.
17. Horizontally stack 2 lime green 1x4 plates on the front row in between the 4 ppp.
18. Horizontally place a light blue 1x6 plate on the front row to the left of the rightmost column. Then place a black 1x1 plate behind the leftmost and rightmost columns of the ppp.
19. Place a yellow 2x2 corner plate on the 2nd and 3rd columns from the right so it looks like the braille letter j. Then place another 1 on the 2nd and 3rd columns from the left of the back 2 rows so it looks like the braille letter h.

#### Group 4 - Suitcase

20. Let's make a part! Horizontally place a yellow 1x2x2 brick in front of you.
21. Place 2 white 1x1 bricks with an axle hole, 1 to the right of the other on top, so the axle holes face left and right.
22. Horizontally place a black 1x2 plate on top.
23. Place 2 white 1x1 bricks with an axle hole, 1 to the right of the other on top, so the axle holes face left and right.
24. Insert the axle of a light grey pin connector with an axle into each of the left-facing axle holes so the pin holes face up and down. Then repeat symmetrically to the right.
- 25.1. Let's make a part! Place a yellow 2x2 plate in front of you. Then place a yellow 2x2 corner plate on the left column so it overhangs 1 column to the left and looks like the braille letter d. Then repeat symmetrically to the right. Now place a yellow 2x2 tile on top so it is centered horizontally.

25.2. Now horizontally place your part on top of your previous part so it overhangs 1 row to the back and the longer side is in the back.

26. Lay your part on its side so it is horizontal and the studs are on top and face the right. Now insert a dark grey 8L axle with a stop into the 2 holes that are in the front so the axle faces the right. Now attach a black 2L curved axle connector to the right side of the axle so the other axle hole faces the back.

27. Rotate your part 180 degrees. Now insert a red 2L axle into the leftmost front-facing axle hole. Then attach a black 2L curved axle connector to the front of the ppp so the other axle hole faces the right.

28. Insert a dark grey 8L axle with a stop into the 2 holes that are in the front so the axle faces the left and attaches to the curved axle connector.

29. Bring back your main build and horizontally place it in front of you so the 1x2 part that can rotate is on the right. Now horizontally place your part upright on the front row, to the right of the 2nd column from the left so the curved axle connectors are in the front and face up.

30. Rotate your build 180 degrees. Now horizontally place 2 yellow 1x1 sloped curved bricks with a 1x1 plate part, 1 in front of the other on the 2 rightmost columns so they slope to the right. Then horizontally place 2 more, 1 in front of the other on the 2 leftmost columns of the back 2 rows so they slope to the left.

31. Place a yellow 2x2 corner tile on the 2nd and 3rd columns from the right so it looks like the braille letter j. Then repeat symmetrically to the left.

Building Instructions (Bag 2, Book 1):

#### Group 5 - Suitcase

32. Let's make a part! Horizontally place a black 1x6 plate in front of you. Then horizontally place a lime green 1x4 plate on top so it is centered horizontally.

33. Vertically place 4 black 1x2 inverted slope plates, 1 to the right of the other, underneath the part so together they are centered horizontally and 1 row slopes and is exposed to the back.

34. Vertically place a white 1x2 plate with a pinhole underneath, on the leftmost column so the hole overhangs to the back. Then repeat symmetrically to the right.

35. Insert a light grey 2L pin into the left-facing pinhole so the pin faces the left. Then repeat symmetrically to the right.

36. Horizontally stack 2 yellow 2x6 plates on top so there is no overhang.

37. Bring back your main build so it is horizontal and the 1x2 part that can rotate is on the left. Now horizontally place your part underneath the 2nd, 3rd, 4th, 5th, 6th, and 7th columns from the right so the pins are in the back and face left and right.

#### Group 6 - Suitcase

38. Let's make a part! Horizontally place a black 2x6 plate in front of you.

39. Horizontally place a black 2x4 plate on top so it is centered horizontally.
40. Horizontally place 2 black 1x2 inverted slope plates, 1 in front of the other, on the leftmost column so they slope and overhang to the left. Then repeat symmetrically to the right.
41. Place 3 lime green 2x2 plates with 2 side studs, 1 to the right of the other, on top so together they are centered horizontally and the side studs face the front.
42. Horizontally place a light blue 1x6 plate on the back row so it is centered horizontally.
43. Vertically place a yellow 1x2 plate on the leftmost column.
44. Horizontally stack 2 light blue 1x6 plates on the front row so they are centered horizontally.
45. Bring back your main build and orient it so it is vertical and the 1x2 part that can rotate is in the front and vertical. Now horizontally place the leftmost column of your part underneath the front 2 rows so the side studs face the front.
46. Horizontally place a light blue 1x6x5 panel on the front row so it is centered horizontally.
47. Let's make a part! Horizontally place a yellow 1x2 brick in front of you. Then place a yellow 1x1 brick on the right column.
48. Place a yellow 1x1x2 brick with 2 side studs on the left column so the side studs face the left.
49. Stack 2 yellow 1x1 plates on the right column.
50. Place a black 1x1 brick with a clip on the left column so the clip faces the right.
51. Horizontally place a yellow 1x2 plate with 2x2 side studs hanging down on top so it is centered horizontally and the side studs face the front.
52. Horizontally place a yellow 1x2 brick on top. Then horizontally place a yellow 1x2 plate on top.

#### Group 7 - Suitcase

53. Horizontally place a black 1x2 plate on top.
54. Vertically place your part on the rightmost column so the 2x2 side studs face the right.
55. Horizontally place a yellow 2x8 plate on the front 2 rows.
56. Place 3 lime green 2x2 plates with 2 side studs, 1 to the right of the other, on the front 2 rows so together they are centered horizontally and the side studs face the front.
57. Place a yellow 1x1 plate on the 2nd row from the front on the 2nd column from the right. Then repeat symmetrically to the left.

## Group 8 - Suitcase

58. Vertically place a yellow 1x2 plate on the rightmost column. Then repeat symmetrically to the left.
59. Vertically place a yellow 1x2 plate on the 2nd column from the right. Then horizontally place a light blue 1x4 brick to the left of the back row of the ppp. Then vertically place a yellow 1x2 plate to the left of the ppp so there is no overhang.
60. Horizontally place 2 yellow 1x1 sloped curved bricks with a 1x1 plate part, 1 in front of the other, on the 2 rightmost columns so they slope to the right. Then horizontally place 2 more, 1 in front of the other, on the 2 leftmost columns of the front 2 rows so they slope to the left.
61. Horizontally place a yellow 1x4 brick with 4 side studs on the front row so it is centered horizontally and the side studs face the front.
62. Horizontally place a yellow 1x2 tile behind the ppp so it is centered horizontally to it. Then place a yellow 2x2 corner tile to the right so it looks like the braille letter d and there is no overhang. Then repeat symmetrically to the left.
63. Vertically place a black 1x2 plate with a bar on the short side upright on the back column of right-facing side studs so the bar faces down. Then vertically place a black 1x2 rounded tile upright on the ppp.

## Building Instructions (Bag 3, Book 1):

## Group 9 - Suitcase

64. Let's make a part! Vertically place a black 4x6 plate in front of you. Then vertically place a yellow 2x4 tile on the 2 leftmost columns so it is centered vertically.
65. Vertically place a yellow 1x4 tile on the 2nd column from the right so it is centered vertically.
- 66.1. Place a yellow 2x2 tile with a sticker on the rightmost column so it is centered vertically and overhangs 1 column to the right.
- 66.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 1 on the yellow 2x2 tile. This sticker is red and says LEGO in the middle. Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.
67. Vertically place a black 4x6 plate underneath the rightmost column so it is centered vertically and 3 columns are exposed to the right.
68. Vertically place a yellow 2x4 tile on the 2 rightmost columns so it is centered vertically. Then vertically place a yellow 1x4 tile to the left of the ppp.
69. Vertically place a yellow 2x4 tile on the front 2 rows so it is centered horizontally and overhangs 2 rows to the front. Then repeat symmetrically to the back.
70. Horizontally place a light blue 1x6 plate underneath the 2nd row from the front so it is centered horizontally. Then repeat symmetrically to the back.



71. Horizontally place a black 1x4 plate underneath the front row so it is centered horizontally. Then repeat symmetrically to the back.

72. Make sure your suitcase is closed, then lay it on its side so the anti-studs face the left and the side studs face up. Now horizontally place your part on top so it is centered vertically and the rightmost column sits on the rightmost column of the suitcase.

73. Place the back row of a black 2x2 curved corner plate on the front stud of the leftmost column so the curve faces the front left. Then place a yellow 1x4 curved plate on the front left corner so the curve faces the front left. Now repeat both parts symmetrically to the right. Then repeat everything symmetrically to the back.

74. Place a yellow 1x1 quarter circle tile on the 2nd row from the front on the 2nd column from the right so the curve faces the front right. Then place a yellow 2x2 corner tile to the back left of the ppp so it looks like the braille letter f. Now repeat both parts symmetrically to the left. Then repeat everything symmetrically to the back.

75. Let's make 2 identical parts! Insert 2 light grey wheels into 2 black tires. Now you should have 2 identical parts! Attach 1 to the front-facing pin that is on the leftmost column. Then repeat symmetrically to the back.

76.1. Let's make a part! Horizontally place a white 1x2 plate with a clip on the short side in front of you so the clip faces the left. Then horizontally place a white 1x3 tile with a sticker on top so 1 column overhangs to the right. Now place a white 1x1 plate underneath the rightmost column.

76.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 3 on the white 1x3 tile. This sticker says BLL and has a barcode on it. This is the flight sticker so the airport workers know where to put the luggage! Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

76.3. Attach the clip of your part to the left-facing bar that is on the front-facing side so the tile side faces up.

You will have an extra red 2x2 round plate. Save it for later!

#### Group 11 - Sandwich and Camera

77.1. Let's make a part! Place a nougat 2x2 round plate in front of you. Then place a yellow 2x2 plate on top of the ppp.

77.2. Place a red 2x2 round plate on top of the ppp. Then place a lime green 2x2 plate with a cutoff corner on top so the cutoff corner faces the front right. Now place a nougat 2x2 round tile on top of the ppp. This is a sandwich!

77.3. Open up your suitcase by lifting up the upper part. Now place your sandwich on the back left corner of the 1x6x5 panel that is in the front. It should not attach to any studs!

78. Let's make a part! Let's make a camera. Horizontally place a light grey 1x4 plate in front of you. Then horizontally place a black 1x2 plate with 2x2 side studs sticking up on top so it is centered horizontally and the side studs face the front.

79. Place a black 1x1 plate on the leftmost column. Then repeat symmetrically to the right.

80. Horizontally place a black 1x4 brick on top. Then horizontally place a light grey 1x4 plate on top of the ppp.

#### Group 12 - Camera

81. Place a light grey 2x2 round plate upright on the front-facing side studs. Then place a black 2x2 round tile upright on the ppp.

82. Place a light grey 1x1 tile on the rightmost column. Then horizontally place a light grey 1x3 jumper plate to the left of the ppp.

#### Group 13 - Camera

83. Place a dark grey 1x1 round plate on the leftmost stud. Then place a transparent red 1x1 tile to the right of the ppp.

84. Horizontally place your part on its side in the front left corner of the 1x6x5 panel so it sits in front of the sandwich and the 2x2 round tile faces up. It should not sit attach to any studs!

85.1. Let's make a part! Let's make a toothbrush! Horizontally place a red 1x5 plate in front of you. Then horizontally place a red 1x3 tile on the 3 rightmost columns. Then horizontally place a red 1x2 tile to the left of the ppp. Now horizontally place a white 1x2 ridged brick underneath the 2 leftmost columns so the vertical ridges face the front.

85.2. Vertically place your part on its side on the rightmost column of the 1x6x5 panel so it sits to the right of the camera and sandwich and the 1x2 brick is in the back and the anti-studs face the left.

86. Horizontally place a dark red 2x3 tile printed with a passport and a globe upright behind the ppp so the tile side faces the front. It should not attach to any studs!

87.1. Vertically place a white 2x4 tile with a sticker in front of the 2 rightmost columns of the ppp. It should not attach to any studs!

87.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 2 on the white 2x4 tile. This sticker is light blue and has a plane ticket on it! Make sure the sticker is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

87.3. Now close the suitcase by lowering the backside to the front! Now lift it upright so it sits on its wheels!

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!

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

At the end of the instruction booklets, there are no ads.