

30663 Space Hoverbike

Written By Todd Kubo and tested by Matthew Shifrin.

Treat a budding astronaut with this cool LEGO® City playset, featuring a futuristic hoverbike, a space crew minifigure and 2 toy space crystals for imaginative play.

The polybag picture shows a hoverbike speeding by an alien landscape with a small bit of landscape. The overall scene is vibrantly colored with a blue fading to purple sky and canyon walls of red orange and tan in the background. The upper right corner has a slight diagonal cutout similar to all the current city space theme, featuring a recolored classic space logo with the red swoosh and ship zooming around a darker blue planet. The word Space running diagonally down the side of the cutout. This set has 46 pieces.

Welcome to Text-Based Building Instructions from Bricks for the Blind. Here is some helpful information on how to best use screen readers and browsers: bricksfortheblind.org/help-with-screen-readers. Before you start building, here are some terms we will 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).

For builders with low vision, or a sighted building partner who may want to follow along with the printed visual instructions that come with each set, PDF versions are always online at [<https://www.lego.com/en-us/service/buildinginstructions/30663?locale=en-us>] 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.

To begin a successful build, it helps to sort the pieces into groups, bags or small containers. Have a sighted friend or family member do this in advance following the instructions below. You will see that the pieces should be sorted into groups according to the building steps in the set.

Doing this in advance makes locating the pieces 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 collected into a small number of steps in the instructions.

This will be a little easier for this build as this is a single bag polybag set.

There is one unique piece in this small set. It's called a horse hitch or harness. For this instruction we will refer to this piece as "the horse hitch".

Group 1: Space Minifigure.

Group 2: Alien Landscape, (Steps 1-3.

Group 3: Hoverbike body, (Steps 4-9.

Group 4: Horse Hitch and body frame, (Steps 10-20.)

Group 5: Hoverbike engine mounts, (Steps 21-22).

Group 6: Hoverbike Engines. (Step 23-31)

Group 7: (Bike Battery (Steps 32-33)

Now on to the build!

Group 1. Minifigure sub-build.

Let's build our Space pilot!

Start Building

Step 1

Locate 1 pair of white legs with a orange hip bandolier and grey boot prints, 1 torso with a dark azure arms and black hands with a space breastplate print and a small reddish orange and black classic space logo, 1 female yellow head with a small smile and lips, 1 dark azure space helmet and 1 transparent clear visor.

Build your minifigure and let's get ready to build the hoverbike to scoot along the surface of an unknown world!

Group 2. Steps 1-3

Let's build the landscape element! What strange new world does this represent?

1. Locate 1 dark tan 3x3 45° wedge plate. Orient the wedge plate to have the right angle to the back right.

Step 2

Locate 1 reddish orange 2x2 45° slope brick and place it on the back right corner of the wedge plate with the slope to the left.

Step 3

Locate 2 opalescent transparent purple crystals. Place 1 of them on the stud to the left of the slope. Place the second crystal on the front stud of the slope.

Group 3. Steps 4-10

On to our Hoverbike! Building the hoverbike body.

Step 4

Locate 1 black 2x8 plate and orient it horizontally.

Step 5

Locate 2 dark grey 1x2 technic bricks with pinhole and place them horizontally on the front and back rows on the right end of the 2x8 plate. They should not overhang.

Step 6

Locate 1 light grey 1x2 jumper plate and place it vertically to the left of the previous pieces.

Step 7

Locate 2 sand blue 1x2 plates with rail and place them horizontally on the left end of the 2x8 plate, with the rails overhanging to the front and to the back.

Step 8

Locate 1 light grey 1x2 jumper plate and place it vertically to the right of the 2 previous pieces.

Step 9

Locate 1 dark grey 1x1 round tile with bar on top and place it on the right jumper plate's stud.

Now, open group 4, (The horse hitch and frame.)

Step 10

Locate 1 black 8x3 horse hitch and place it horizontally with the 2x2 plate section on top of the 1x2 plates with rails. The horse hitch is a larger piece 8 studs long by 3 studs wide - it consists of a 2x2 plate connected by 2 bars sloping slightly upward and connection on the vertical 1x2 plate on the front and back sides. Connect the 2x1 part of the hitch to the studs of the technic bricks on the right end of your build. This should not overhang.

Step 11

Locate 1 reddish orange 1x2 plate and place it vertically on the right 2 studs of the lower harness plate, (the 2x2 one.)

Step 12

Locate 1 white 2x2 curved slope tile and place it with the curve facing left on the previous piece, and to the left. The slope will not overhang.

Step 13

Rotate the entire assembly 180° so the 2x1 bricks with pinhole are on the left, and the 2x2 curved slope tile from the previous step is at the right.

Step 14

Locate 1 black 1x2 plate with 2x2 side-studs hanging down. Place it vertically between the bars of the hitch with the 2x2 side-studs hanging down on the left end of the build.

Step 15

Locate 1 dark grey 1x2 rounded plate and place it upright on the back column of the 2x2 side-studs hanging down.

Step 16

Locate 1 light grey 1x2 jumper plate and place it vertically upright in front of the previous piece on the 2x2 side-studs hanging down.

Step 17

Locate 2 transparent light blue 1x1 round tiles and place one right on the top stud of the 1x2 plate in step 15. Place the other on the single stud of the jumper plate from the previous step.

Step 18

Locate 1 dark grey 1x1 round tile with bar on top and place the bar end into the lower open stud below the 1x1 round tile from step 17.

Step 19

Locate 1 reddish orange 1x2 plate and place it vertically on the right 2 studs of the upper side hitch assembly.

Step 20

Locate 1 white 2x2 curved slope tile and place it on the previous piece and to the left, curve to the left.

The body of your hoverbike is now complete! Let's move on to the connecting drive engines for this little build!

Group 5 (The drive engine mounts, (Steps 21-22):

Step 21

Locate 2 black 2L technic pin with axle and insert them into the pinholes of the technic bricks of the hoverbike. The 2L axel should extend to the front and to the back.

Step 22

Locate 2 light grey technic bushings and place them on the axles. Push the bushings all the way flush with the body of the hoverbike.

Group 6. Steps 23-28 Engines sub assembly.

We will make 2 of these to attach to the technic axels of our hoverbike!

Step 23

Locate 1 white 1x2 technic brick with axel hole. Flip it upside-down so that the piece is horizontal, with the axle-hole to the front and back.

Step 24

Locate 1 dark grey 1x2 rounded plate and put it upside-down on top of the technic brick. Its anti-studs should face the ceiling.

Step 25

Locate 2 trans orange 1x1 round plates put them on top of the previous plate, one next to the other.

Step 26

Flip the engine assembly right-side up, so that it is still horizontal.

Step 27

Locate 1 reddish orange 1x2 plate and put it on the technic brick horizontally. There should be no overhang.

Step 28

Locate 1 light grey 1x2 sloped grill tile and put it on top of the previous piece. There should be no overhang.

Step 29

Repeat steps 23 to 28 to create a second engine sub-assembly for your hoverbike.

Step 30

Locate the body of your hoverbike and attach one of the engines by aligning the technic axels with the axel holes of your engine sub-assemblies. Attach one to each side vertically, upright with the high side of the grill tiles at the bottom right of your hoverbike.

Group 7, (The bike's battery):

Step 31

Locate 1 pearl transparent purple 1x1 round brick.

Step 32

Locate 1 white 1x1 round tile with battery print and place it on top of the round brick.

Step 33

Locate the hoverbike and orient it so that the engines face the left, place the round brick battery assembly onto the 1 stud of the jumper on the right end of the hoverbike between the hitch's bars.

The section in the middle will be where you can put your pilot minifigure.

Your Hoverbike is complete!

Swoosh!!

Thank you so much for building this set!

Visit bricksfortheblind.org for more accessible instructions and follow us on [Facebook](#) and [Instagram](#) to be the first to know when new instructions are available!

We also love seeing your completed builds, so please tag our [Facebook](#) and [Instagram](#) accounts in any photos of your builds so we can share your accomplishments with our Bricks for the Blind community. We hope you enjoyed building your LEGO set! Bricks for the Blind is able to create these text-based building instructions thanks to generous donations from our builders. If you enjoy the instructions we create, please consider making a \$5 donation at: <https://www.gofundme.com/f/bricks-for-the-blind-gofundme>.