8158 Speed Racer VS Snake Oiler

Welcome to text-based instructions from LEGO for the Blind. Before you start building, here are some terms we'll be using:

Front: towards you.
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: going from front to back.
Horizontally: going from left to right.
Upright: pointing up towards the ceiling, and down towards the floor.
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.

There are also abbreviations defined at the end of this file.

Featured in Casa Cristo Classic cross-country road rally. Includes Speed Racers Mach 5 and Snakes car.

Please note: This set contains stickers. I have not written out instructions for their proper application. Please get some sighted assistance if you want to apply them correctly.

Bag 1: Build the Speed racer: 1. Put 2 f6x1 hor parallel to each other on the table with a gap of 2 rows between them.
2. Put an f8x1 ver on top of the rightmost buttons of the two pps, so that it overhangs to the front and the back.
3. Put a 4x1 in the middle of the f8x1 ver put 2 4x1 with side holes hor to the left of the front and back buttons of the pp and 1/3 down. put 2 f4x1 on top of the 2 pps.
 5. Put 2 2x2 lip pieces to the front and the back of the 2 pps touching corners slides to the right. put a flat 3-button corner onto the back left button of the front lip to the back and to the left, like a braille letter d, so that the lip touches the 4x1. Repeat symm at the back.
6. Take a flat 2x1 it in the middle of the 2 pps ver. skip one column to the left and put a f4x2 ver there.
7. skip 2 columns to the right and put 2 2x1s ver at the front and at the back ends of the right edge.
8. Put a 3x2/2x2 step piece 2x2 part to the left, skipping 2 columns to the left, protruding to the left in the middle. lay momentarily aside.
9.   Put a f8x6 ver on the table. put an 8x1 ver on the right edge. Put a 4x1 to the left of the front button of the pp and put another 4x1 symm at the back.
9.3.1. Put two seats, backs to the right, skipp0i8ng one column from the right edge, at the back and at the front backs to the right.
9.3.2 put a 2x1 slide ver in the middle of the left edge slide to the right, (touching corners with the 2 pps.
9.3.3 put a 2x1 steering wheel ver to the front of the right column of the pp. right in front of the front seat.
9.3.5. put a 3x2 ver to the left and to the front. of the steering wheel, overhanging to the left, repeat symm at the back.
9.5.3. Connect as is to the left of your structure, putting it on the 2x2 base at the left.
10. put a 3-button corner piece, letter f on the second and third rows on the 7th and eighth columns from the left.   Repeat symm at the back. put a f4x1 ver to the right of the 2pps.
11.1 skip 2 columns to the right and put a f 3-button corner piece on the second and third rows from the front letter h. repeat symm at the back.
12. skip 1 column from the right and put a 4x1 hood ver slide to the right.
12.2 put a fs6x1 ver to the left and a f6x1 to the left.
Lay aside.
13.1.1 put a flat 3--button corner piece on the table, letter d.
13.2 put one symm to the back.

13.1.3 connect by putting a f2x1 ver in the middle of the right edge.

13.2 put a jaw piece ver on the left edge, jaw to the left. put a f2x2 in the middle.

13.4. put a 43x2 on top and to the right.

5. put a f8x1 hor to the right of the front edge, not connected, just on the table. Repeat symm on the back. Connect the 8x1 with the jaw by putting a 4x1 with side holes on the left, part of the f8x1, connecting with the one free button on the front right of the jaw. Repeat symm at the back.

6. put a f3x1 ver to the right and to the front of the front piece, the 8x1, overhanging to the front, repat symm at the back.

13.7.1. Put a f4x2 ver to the left of the 2 pps in the middle. Skip 2 columns to the left and put a f8x2 ver in the middle.

13.8 put a f6x2 hor on top of the pp and to the right in the middle.

9. Put a 3x2/2x2 ver, 2x2 to the right on top of the right edge of the pp, and to the right. Lay aside. Make a part.

13.10.1.1 put a f2x1 hor on the table. Put a f1x1 on top of it's right button. put a f2x1 (transparent, hor to the left overhanging. put a f1x1 on top of the pps left button. repeat 31.1 -13.4 to make 2 such parts. Install the previous two parts you've made as they are on the front and back of the f8x2 hor. Connect this part as is from the left to the main structure.

14. Install the steeped wheel-arches at the front and the back, skipping two columns from the left, slides to the front and back respectively. Repeat on the right side of your structure skipping one column from the right edge, on the front and back. Put a f3x1 to the left of your right front wheel and right back wheel rim. Put a f6x1 to the right of the 3x2 ver.

16.1 Put a fs1x1 white wedge on the right edge on the second row slide to the left repeat symm at the back.

16.3 put a f2x1 hor on the third row from the front, on the 6th and 7th columns from the right hor, it should connect via one button. Put a f2x1 to the right. Put a f4x1 diagonally up and to the right from the left side of the left front wheel rim, repeat sym on the back. Put a cut-off wing piece, to the front of the 2x3 on the left side, cutt-off corner to the front and left, repeat symm at the back.

17.1. put a f1x1 on top of the pp's left button.

17.2 put 2 fs1x1 wedges to the front and to the back, slides to the front and to the back. Put a fs2x2 in the middle of the left skipping three columns from the left. Put a flat 3-button corner piece like the braille letter j to the front and to the right repeat symm to the back.

18.1 put a 4x1 curve piece slide to the right on the front edge starting from the right. Put the other curves onto the left and right sides of the wheel rims. Put a smooth 4x1 curve hor on the third row from the front slide to the right, starting on the seventh column from the right, slide to the right.

19. 1. Put a 4x1 smooth curved piece hor on the left side skipping two columns from the left edge. repeat symm at the back. Put the windshield piece, to the left of the steering wheel, skipping 1 column to the left Put a fs6x1 ver in the middle on the 7th column from the left. to the right of the curves that you placed at the start of this step.

20. Put a fs4x1 curved piece hor to the left of the 2x2 flat smooth, and put one hor to the back. Put a nut on a stick, approx. a finger length down. Then put the stick into the hole under the wheel rims, and put a nut on the other end of the stick. Put the gears(hubcaps) into the wheels, and put the ties on the wheels. Then put the wheels onto the sticks. Congrats! You've finished car number 1. Put the racing helmet onto the minifig and put him into the car. He wears a blue jacket with a collar.

Bag 2: Build the snake oiler's car:

1. Take 2 8x1s and put them hor on the table parallel to each other with a gap of 2 buttons in between.

2. Connect with a flat 8x1 on the rightmost buttons of each in the middle, overhanging to the back and to the front.

3. Put 4x1 with side holes to the left of the pp on the horizontal f8x1s parallel to each other.

4. Put a f4x2 ver in the middle of the tops of the 2pps. Put a 6x1 ver in the middle of the right edge.

5. Put a f4x2 hor on top and to the right of the pp and the 6x1 in the middle.

6. Put a 2x1 lip on the front right edge, lip to the right. Repeat symm on the back.

7. Put a fs2x2 in the middle between the 2pps on the right edge. Put a 3x2/2x2 piece hor to the left, 3x2 to the right, 2x2 to the bottom and to the left. Lay aside.

8. Make a part, put a f8x6 ver on the table. Put 2 4x1s ver on the right edge. put 2 4x1s to the left on the front and back edges.

8.3.1 Put a 2x1 slide piece ver slide to the right in the middle of the left edge.

8.3.2 skip 1 columns to the right and repeat symm.

8.4.1 put a f2x2 on top of the pp, and to the right.

8.4.2 put a seat to the front and right, of the previous piece, put one symm to the back.

8.5 put a steering wheel ver wheel to the right, on the second and third rows, on the second column from the left.

8.5.2 put a f3x1 ver to the left of the left edge aligning at the front but not connected. Repeat symm at the back.

8.6.1 Connect them to the structure by putting a 3x1 ver at the front and at the back. Attach this part to your structure so that the 2x2 line up in the middle.

9. Put a 3x2-2x2 piece underneath the left side, the 3x2 under the left side of the part. Lay aside, make another part.

10.1.1 Put a f8x1 ver on the table.

10.1.2 put a 6x1 with side holes hor on the third column from the front, 1 button overhanging to the left and 4 overhanging to the right. skip 2 columns to the back and repeat.

10.2.1 put a 3x2 hor in between aligning on the left.

10.2.2 put a f2x1 ver on the front two columns. 10.2.3 repeat sym on the back.

10.3.1 put a 2x1 with 4 side buttons overhanging on the left. 10.3.2 put a f4x4 to the right.

10.4.1. put a 3x1 lip hor lip to the left to the front of the leftmost column of the pp and to the left, overhanging to the left, repeat symm at the back.

10.4.3 put a 2x1 lip hor lip to the left to the back aligning at the right.

10.4.2 repeat symm at the front.

10.5.1 put a f3x2 hor in the middle of the right edge on the two rightmost columns with one column overhanging to the right.

10.5.2 put a 1x1 button on the first column from the left on the third row from the front not counting the overhanging lips. repeat sym on the back, (6th row from the front.

10.6.1. put a flat 4x1 ver on top.

10.6.3 put a f6x1 ver to the right in the middle.

10.6.5 put a f4x1 ver to the right of the right of the pp in the middle. Connect this part from the left and underneath your other part.

FLip your part upside down. Put 2 8x1 hor to the left of the existing f8x1 in the middle and put one below this one.

Flip right-side up. Put a 4x1 wing piece in front of the 3x1 in the middle of your vehicle, cut of corner to the left and to the front, repeat symm on the back.

12.3 put a fx61 ver to the right of the 2 pps.

Put a flat 3-button corner piece, letter h. to the left and to the front of the f3x2 in the middle. Repeat symm on the back.

13.3 skip 1 column to the right and put a flat 3-button corner piece to there and to the back of the pp letter J. Repeat symm to the front.

14. Put two wheel rims on the left front and left back of the car. Then put two on the right front, one ridge to the front and the other ridge to the back, do this on the back right as well.

15.1 put two f1x1 wedges slides to the right on the front and back of the right edge.

15.2 put a f3x1 on the front edge hor to the right of the left rim. repeat symm on the back.

16.1 put a f2x1 with a handle hor handle to the front, to the back of the left front rim. Repeat symm on the back.

16.2 put a fs2x2 in the middle between the 2pps. then put a 4x2 fs curve piece ver slide to the left to the left of the pps.

put a right wing, (corner to the right and to the front, hor wide part to the left, on the right wheel rim, on the buttons to the right of it's center. Repeat symm on the back. Put a f 6x1 ver on the 7th column from the right in the middle.

17. 17.2 Make a part. Take a 3x1 wing part cut off piece with a cut-off corner to the legt and put a 3x1 part cut-off corner to the right to the back of the pp, connect them with a fs6x1 piece. Install as is in the middle of the right edge.

18. put a 4x1 3-stepepd fs curve, hor slide to the left on the second row from the front starting at the right edge. repeat symm on the back.

18.2 skip 1 column to the left and put a fs 2x1 hor there. Repeat symm at the front.

19. Put a flat curved hood piece to the back of the piece hor curve to the right.

20. Make a part, put a 1x1 button underneath the slide top of a fs3x1 curve, repeat to make two such parts. Put them on the left side, slides to the left side of the wheel rim, in the left front and left back.
20.1 put a fs2x1 hor to the right of each pp, and put put a 1x1fs wedge slide to the right of each pp. put a fs4x1 hor to the right of each pp. put a 4x1 fs curve slide to the left ot the right of each pp.
21. make a part, put a f2x1 with two handles on top of a f2x1 put a fs2x1 on top. Install it ver upright, handles to the bottom, in the on the side buttons of the left edge. install the windshield, to the right of the fs2x2 in the middle.
22. Take 6 fs4x1 curves and put them on the left side in the gaps.
Put a stick in the wheel-hole with a nut on one end, and put a nut on the other side. (the stick-insertion is the same as with the previous car) Then put on the wheels, put the driver in the seat. Enjoy!