REFINED FROM YOUR LEGO DUPLO PHOTO + SCAN

Your Duplo robot

3D reconstruction + assembly guide

109

modeled pieces

25

illustrated steps



A part-based model of your robot, with its wood-grain arm tiles, skateboard eyes, shoulder rider and striped antenna.

Photo-refined reconstruction
This sequence assembles the proposed digital model. Visible bricks follow your scan and photo. Some molds and hidden connections are inferred; physical snap connections have not been verified.

Front: yellow eyes + green mouth

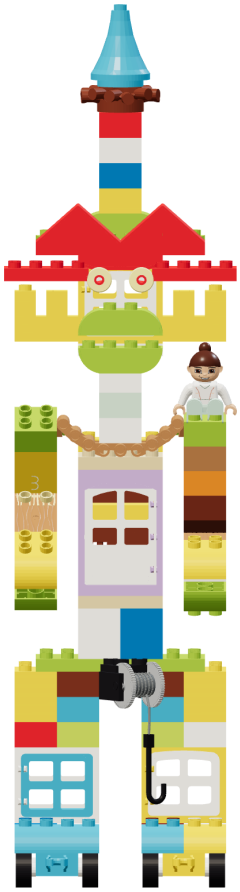
Original mesh and splat scan preserved.

BEFORE YOU BUILD

Read the model

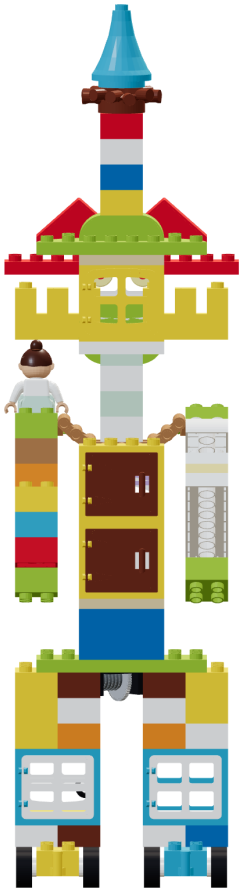
The front is the side with the eyes, projecting green mouth and white chest door.

FRONT



Front landmarks
Two yellow eyes; red roof brow; green mouth; lavender torso with a white four-pane door.

REAR



Rear landmarks
Yellow head window; two brown gates in yellow frames; asymmetric arm color blocks.

How to read a step

- Current pieces remain in color.
- Earlier pieces are shown in pale gray. Rear views are labeled.

Piece IDs (P001, P002, ...) match the model inventory. Arm names follow the model labels; use the color pattern and view to distinguish the two sides.

What is inferred
This is an inventory of the proposed model, not a verified count of your physical robot. Some molds, variants and hidden attachments need comparison with the real build. Physical snap connections have not been verified. The front photograph confirms the waist pulley, cord and hook as part of the robot; the background floor is excluded.

Sort the modeled pieces

109 pieces across 30 types. Counts are for this reconstruction; exact physical molds remain subject to review.

TYPE / NUMBER	PIECE	COLORS + QUANTITIES
11841c03 type / 14639p05 geometry	**Car base 2 x 6, white hubs + black tires**	Medium azure 1; Yellow 1 — 2x
2302	**Curved-top brick 2 x 3**	Medium azure 3; Yellow 3; White 1; Bright green 2 — 9x
3437	**Brick 2 x 2**	Blue 2; White 10; Reddish brown 6; Red 3; Lime 2; Orange 3; Yellow 12; Medium azure 3; Medium nougat 1; Dark brown 1; Light aqua 1 — 44x
61649	**Open-back frame 2 x 4 x 3**	Medium azure 2; White 1; Yellow 5 — 8x
90265	**Flat-top four-pane window**	White 2; Medium azure 1 — 3x
4809	**Arched four-pane window**	White 2; Yellow 1 — 3x
4672b	**Rectangular plate 4 x 8**	Bright green 1 — 1x
3011	**Brick 2 x 4**	Blue 2 — 2x
31110	**Tall brick 2 x 2 x 2**	White 1; Blue 1 — 2x
4654 + 4653 winch type	**Winch holder and gray reel (modeled)**	Light gray 1 — 1x
Duplo cord and hook	**Winch cord and hook (modeled)**	Light gray 1 — 1x
14721	**Plate 4 x 4**	Tan 2; White 1 — 3x

Geometry notes 23927 is represented by the near-match LDraw bridge 31062. Modeled details and assemblies may include secondary colors. Part numbers identify geometry choices, not a guaranteed shopping list.

Sort the modeled pieces

109 pieces across 30 types. Counts are for this reconstruction; exact physical molds remain subject to review.

TYPE / NUMBER	PIECE	COLORS + QUANTITIES
6360	**Torso door frame 4 x 4 x 5**	Lavender 1 — 1x
31023	**Curved-top four-pane chest door**	White 1 — 1x
87653	**Wooden-style gate with handle**	Reddish brown 2 — 2x
23927 / 31062	**Hanging log bridge (near match)**	Medium nougat 1 — 1x
3966	**Brick 2 x 2 with side pin**	Bright green 2 — 2x
Duplo seated figure	**Shoulder rider (photo refined)**	White 1 — 1x
3437 printed 3 variant	**Yellow 2 x 2 brick with number 3**	Yellow 1 — 1x
40666	**Plate 2 x 4**	Bright light yellow 1; Light aqua 1; Red 3; Tan 1 — 6x
44524	**Plate 2 x 8**	White 2 — 2x
65109	**Wood-grain tile 2 x 4**	Medium nougat 2 — 2x
16685	**Brick 1 x 4 x 2 with cutouts**	Yellow 2 — 2x
2319c01 / 100658	**Skateboard + eye wheels (reconstructed)**	Red 1 — 1x
98224	**Curved-bottom brick 2 x 4**	Bright green 1 — 1x

Geometry notes 23927 is represented by the near-match LDraw bridge 31062. Modeled details and assemblies may include secondary colors. Part numbers identify geometry choices, not a guaranteed shopping list.

Sort the modeled pieces

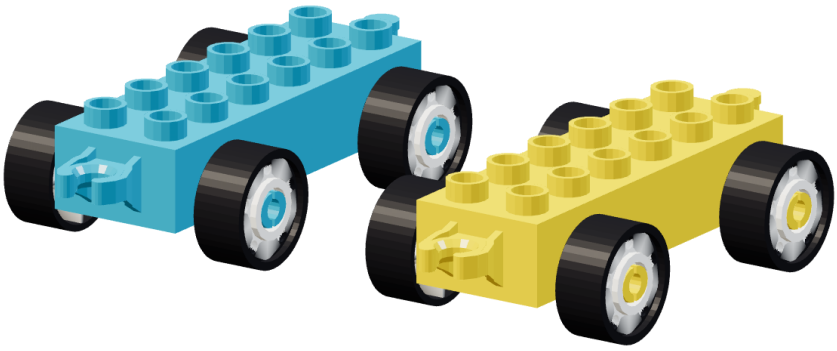
109 pieces across 30 types. Counts are for this reconstruction; exact physical molds remain subject to review.

TYPE / NUMBER	PIECE	COLORS + QUANTITIES
98223	**Curved-top brick 2 x 4**	Bright green 2 — 2x
29303	**Double slope brick 4 x 2**	Red 2 — 2x
29304	**Semicircular plate 4 x 8**	Bright green 1 — 1x
31070	**Branch brick with radiating bars**	Reddish brown 1 — 1x
16375	**Castle roof spire 3 x 3 x 3**	Medium azure 1 — 1x

Geometry notes 23927 is represented by the near-match LDraw bridge 31062. Modeled details and assemblies may include secondary colors. Part numbers identify geometry choices, not a guaranteed shopping list.

Color: add this step | Pale gray: earlier pieces

01 Duplo car bases



FRONT 3/4 VIEW

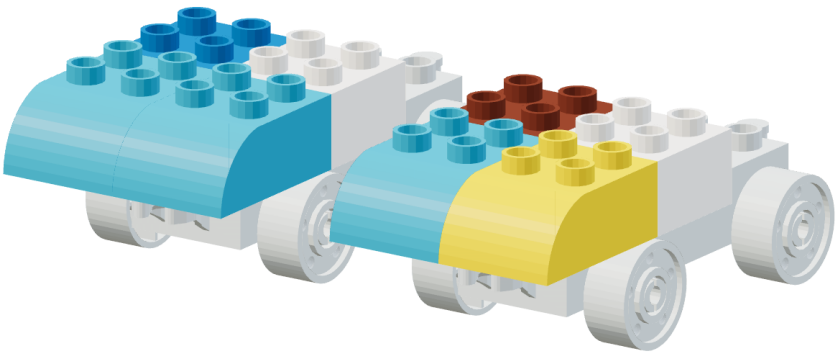
Place the two car bases parallel, centers 96 mm apart. Their wheel hubs face outward and their long axes point forward.

ADD 2 PIECES

P001 Duplo car base with white wheel hubs
Medium azure

P002 Duplo car base with white white wheel hubs
Yellow

02 Split-color toes



FRONT 3/4 VIEW

Build each toe from two separate 2 x 3 curved pieces. Use azure/azure on the left foot and azure/yellow on the right; match the blue, brown and white blocks immediately behind them.

ADD 8 PIECES

P003, P005, P007 Individual curved toe
Medium azure x 3

P004 Exposed studded block behind toe
Blue

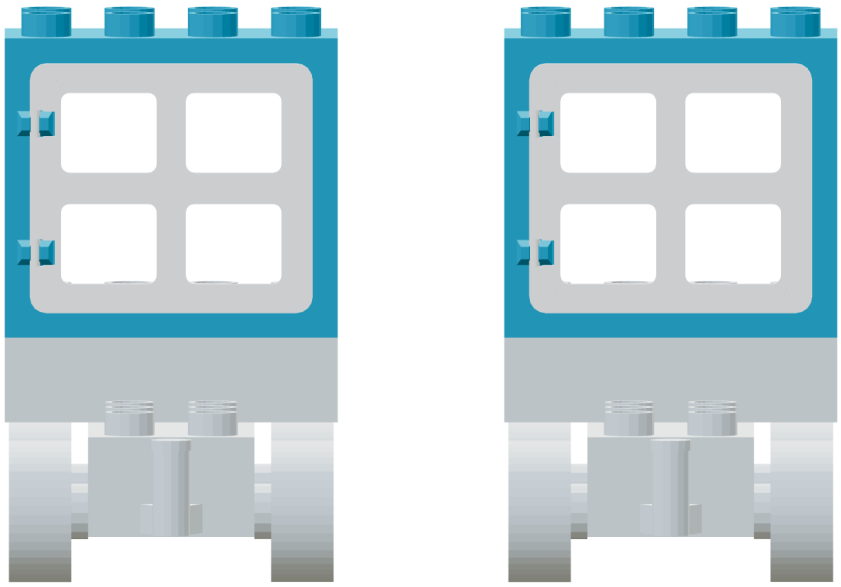
P006, P010 Exposed studded block behind toe
White x 2

P008 Exposed studded block behind toe
Reddish brown

P009 Individual curved toe
Yellow

Color: add this step | Pale gray: earlier pieces

03 Rear shin windows



REAR VIEW

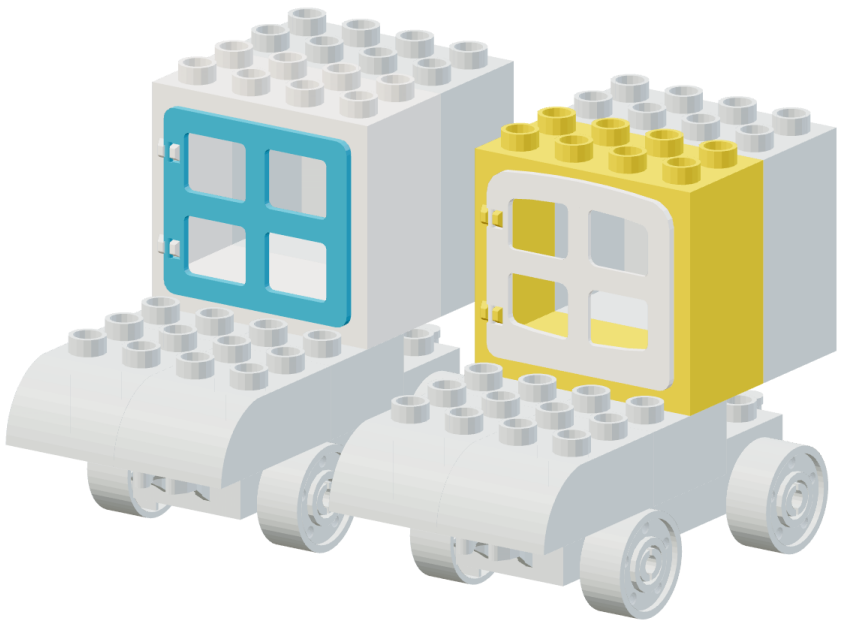
Build one azure frame with a white four-pane insert at the rear of each foot.

ADD 4 PIECES

P011, P013 Window frame
Medium azure x 2

P012, P014 Four-pane insert
White x 2

04 Front shin windows



FRONT 3/4 VIEW

Add the front frames. The left has a blue square-pane window; the right has the rounded white window shown in the photo.

ADD 4 PIECES

P015 Window frame
White

P016 Four-pane insert
Medium azure

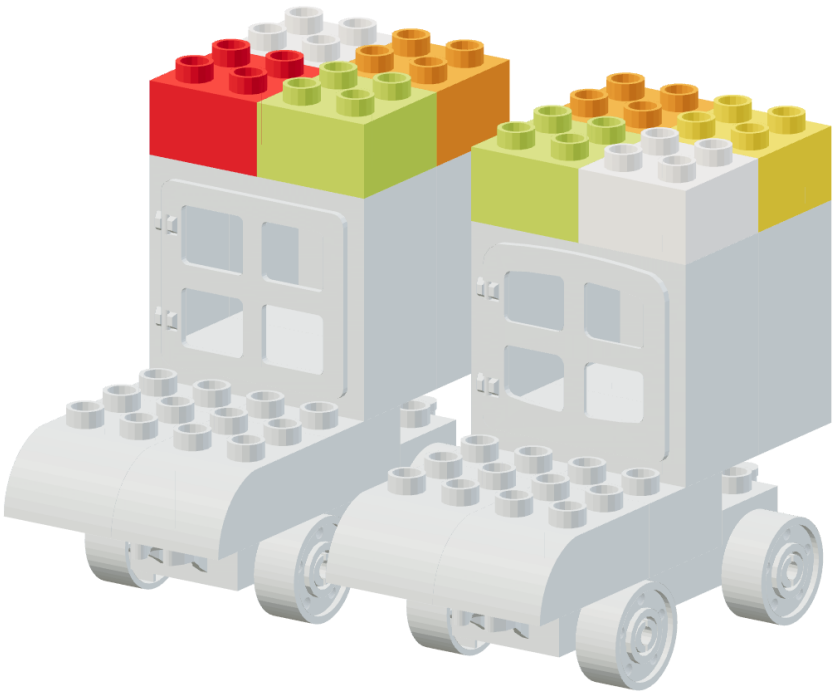
P017 Window frame
Yellow

P018 Four-pane insert
White

Color: add this step | Pale gray: earlier pieces

05 Lower thigh row

FRONT 3/4 VIEW



Add the red, lime and white blocks above the shin frames, matching the photographed color patches.

ADD 8 PIECES

P019 Lower thigh block
Red

P020, P023 Lower thigh block
Lime x 2

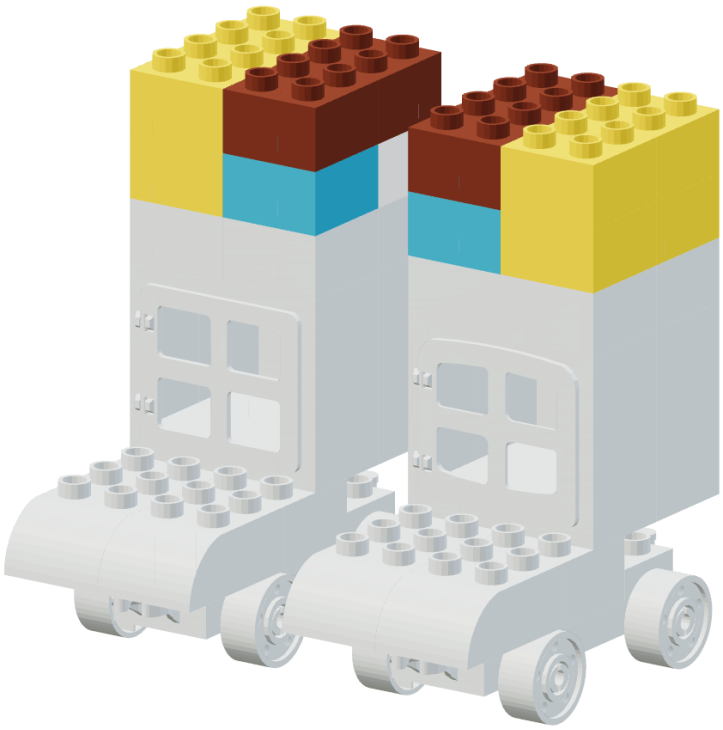
P021, P024 Lower thigh block
White x 2

P022, P025 Lower thigh block
Orange x 2

P026 Lower thigh block
Yellow

06 Upper thigh columns

FRONT 3/4 VIEW



Add two more aligned rows. The inner left column changes from azure to brown; the outer column remains yellow. Keep the top surfaces level for the hip plate.

ADD 16 PIECES

P027, P029, P031, P033, P036, P038, P040, P042 Upper thigh grid block
Yellow x 8

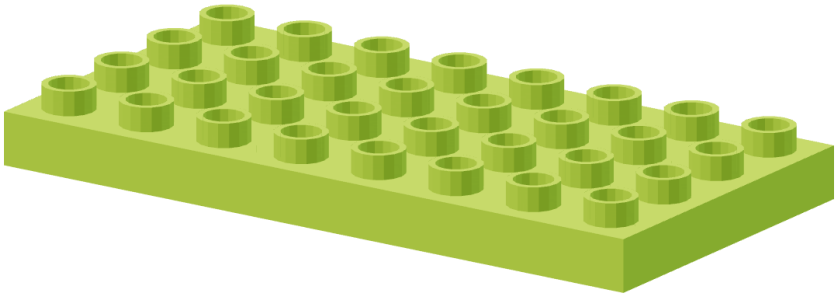
P028, P035 Upper thigh grid block
Medium azure x 2

P030, P037 Upper thigh grid block
White x 2

P032, P034, P039, P041 Upper thigh grid block
Reddish brown x 4

Color: add this step | Pale gray: earlier pieces

07 Rectangular hip plate



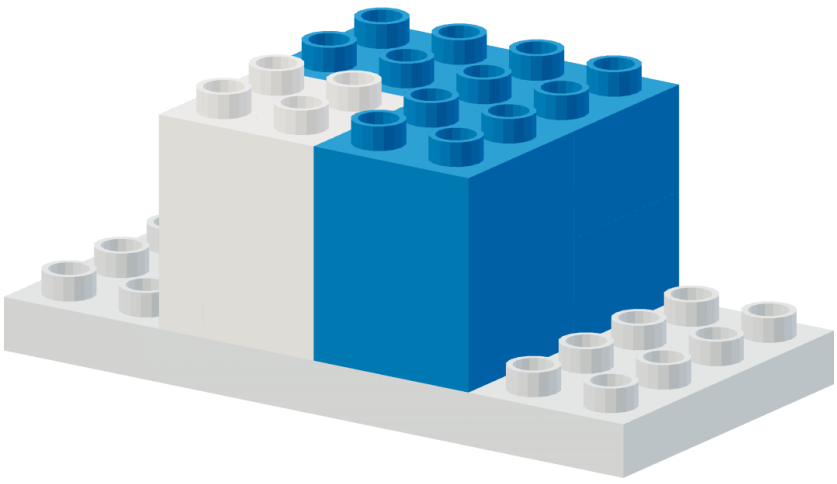
FRONT 3/4 VIEW

Connect both thigh columns with the rectangular green 4 x 8 plate. Its front corners remain square and studded.

ADD 1 PIECE

P043 Rectangular green hip plate
Bright green

08 Blue and white waist



FRONT 3/4 VIEW

Build the two-brick-high waist. The front is white on the left and blue on the right; the rear remains blue.

ADD 4 PIECES

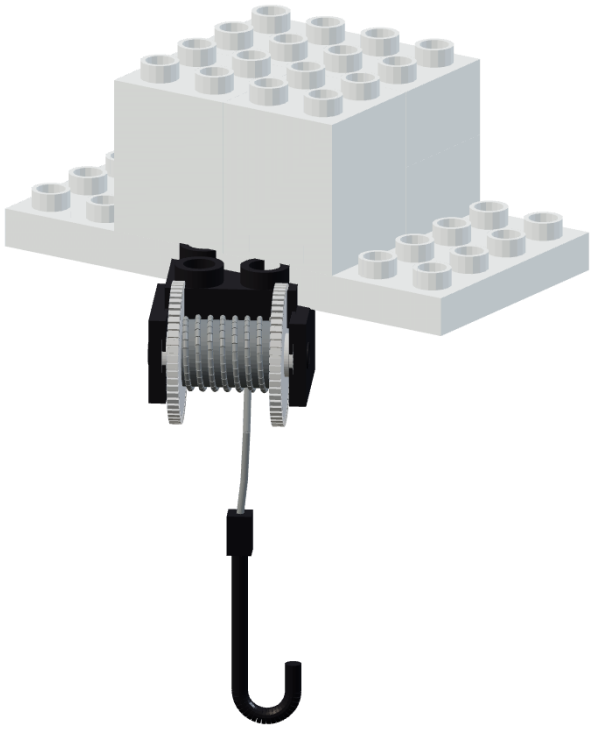
P044, P045 Rear blue waist brick
Blue x 2

P046 Tall white waist column
White

P047 Tall blue waist column
Blue

Color: add this step | Pale gray: earlier pieces

09 Waist winch and cord



FRONT 3/4 VIEW

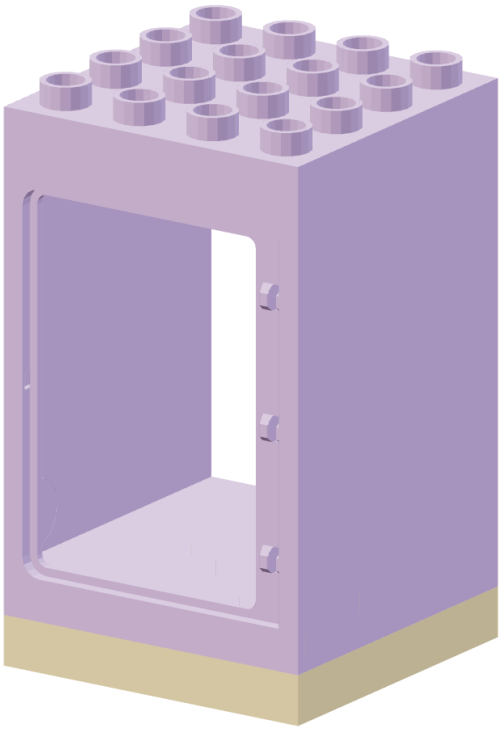
Fit the black winch holder below the front of the waist, then the gray double-flange reel. Route the pale cord down to the black hanging hook in front of the right leg.

ADD 2 PIECES

P048 Waist winch holder and reel
Light gray

P049 Pale winch cord and black hook
Light gray

10 Torso frame



FRONT 3/4 VIEW

Place the tan floor plate, then the lavender 4 x 4 x 5 torso frame. Its opening faces forward.

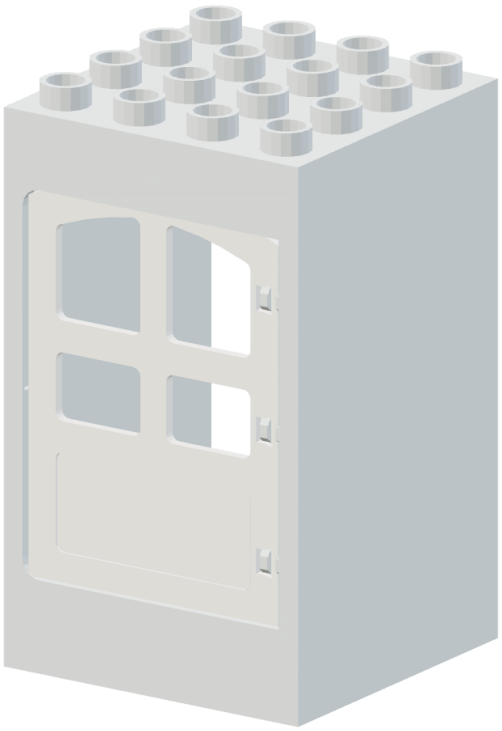
ADD 2 PIECES

P050 Tan torso floor
Tan

P051 Lavender torso frame
Lavender

Color: add this step | Pale gray: earlier pieces

11 Curved white chest door



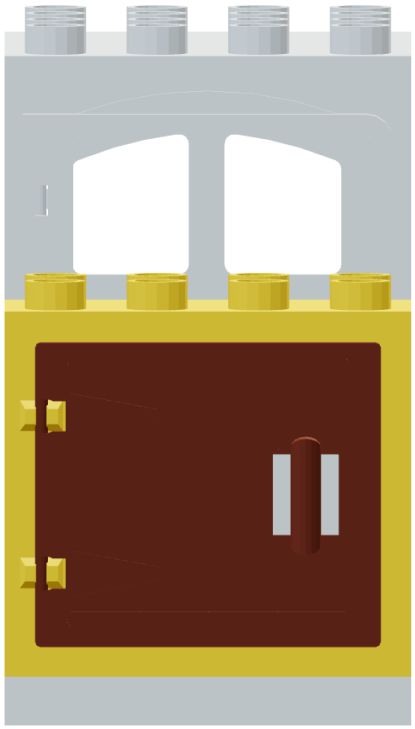
FRONT 3/4 VIEW

Clip the curved-top white four-pane door into the lavender frame. Its arched upper windows match the photograph.

ADD 1 PIECE

P052 Curved-top white chest door
White

12 Lower rear gate



REAR VIEW

Turn the torso around and add the lower yellow frame and brown gate, following the original scan.

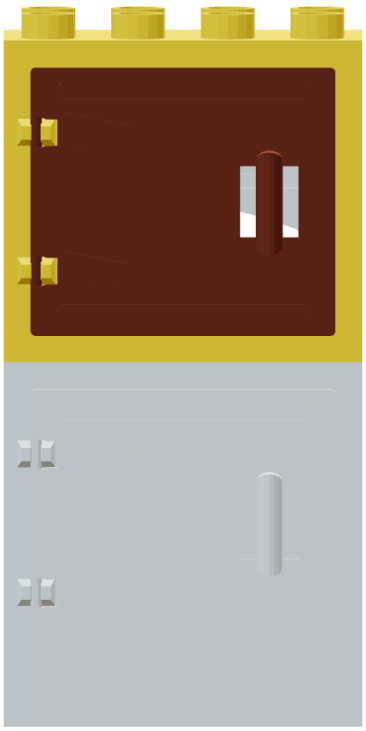
ADD 2 PIECES

P053 Lower yellow back frame
Yellow

P054 Wooden gate with handle
Reddish brown

Color: add this step | Pale gray: earlier pieces

13 Upper rear gate



REAR VIEW

Stack the second yellow frame and brown gate above the first. These rear surfaces are supported by the original scan.

ADD 2 PIECES

P055 Upper yellow back frame
Yellow

P056 Wooden gate with handle
Reddish brown

14 Shoulder bridge and rider



FRONT 3/4 VIEW

Place the tan log bridge across the shoulders with a green rotating support at each end. Seat the light-aqua-trousered rider on the right support.

ADD 5 PIECES

P057 Torso to shoulder support plate
Tan

P058 Tan hanging shoulder bridge
Medium nougat

P059, P060 Green rotating shoulder support
Bright green x 2

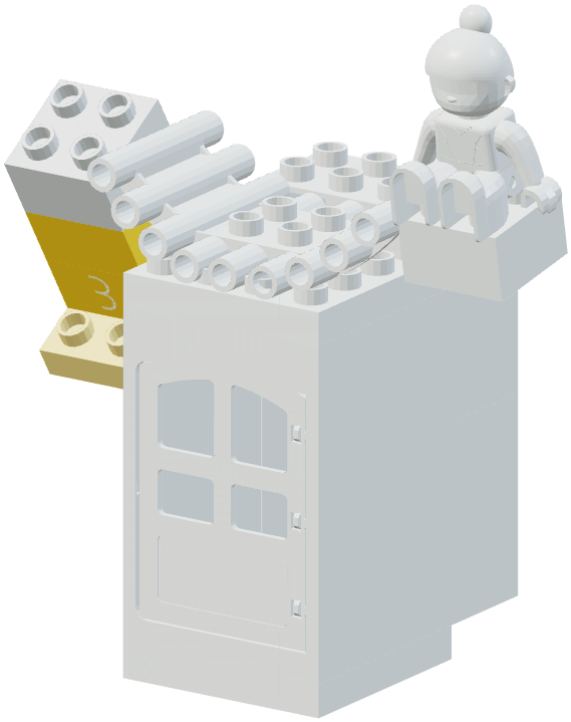
P061 Shoulder rider with brown bun
White

Review: snap angles and variants are inferred. Compare with your physical build.

Color: add this step | Pale gray: earlier pieces

15 Yellow upper arm

FRONT 3/4 VIEW



Build the two yellow bricks and pale-yellow separator below the left shoulder support. Keep every block aligned on one stud grid.

ADD 3 PIECES

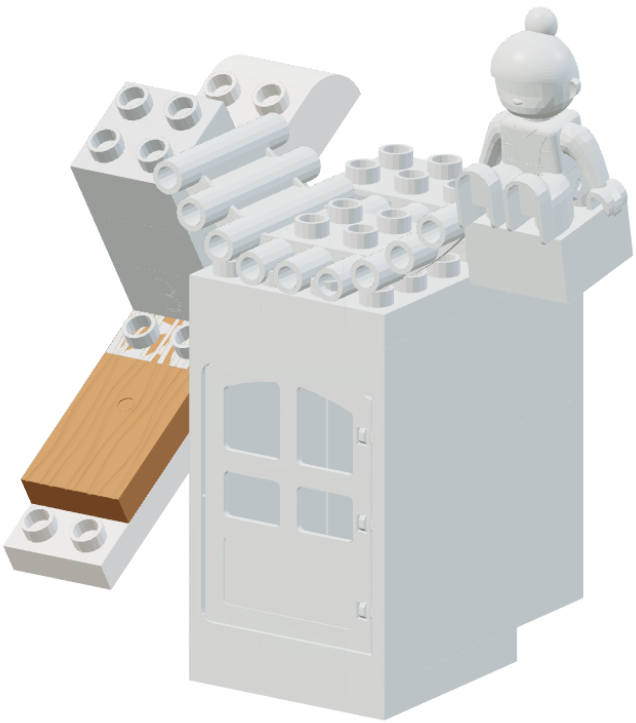
P062 Upper yellow arm brick
Yellow

P063 Yellow arm brick marked 3
Yellow

P064 Pale-yellow arm separator
Bright light yellow

16 Left rail and wood tile

FRONT 3/4 VIEW



Attach the thin white rail beneath the upper-arm stack. Add the separate 2 x 4 wood-grain tile toward the front and the raised white rear tip.

ADD 4 PIECES

P065 Thin white forearm rail
White

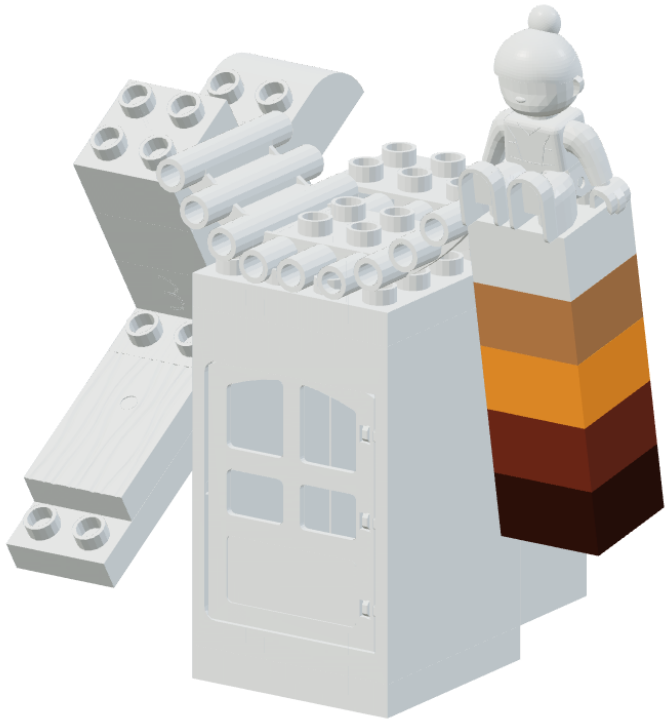
P066 Wood-grain forearm tile
Medium nougat

P067 White rear arm block
White

P068 Raised white rear tip
White

Review: snap angles and variants are inferred. Compare with your physical build.

17 Right upper-arm colors



FRONT 3/4 VIEW

Build the aligned right upper-arm stack: tan, orange, brown and dark brown from the shoulder downward.

ADD 4 PIECES

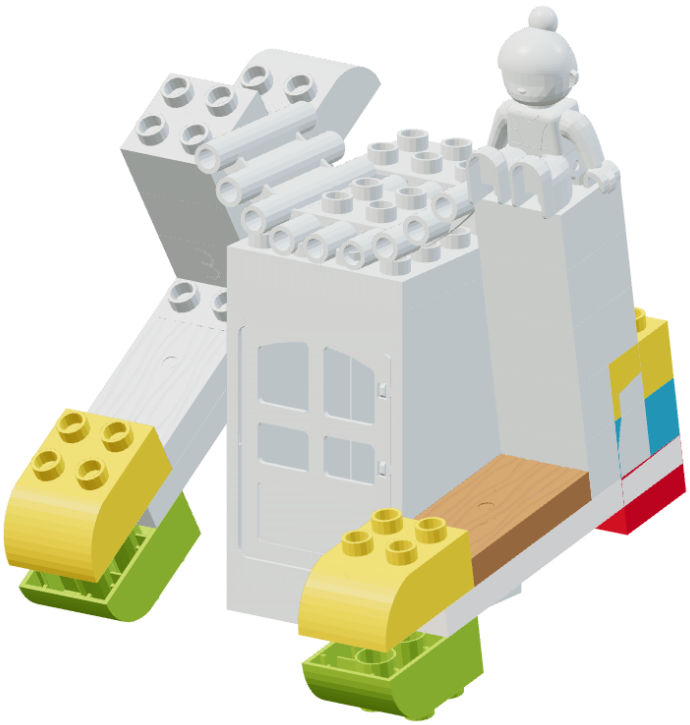
P069 Right upper-arm color block
Medium nougat

P070 Right upper-arm color block
Orange

P071 Right upper-arm color block
Reddish brown

P072 Right upper-arm color block
Dark brown

18 Right rail and open hands



FRONT 3/4 VIEW

Add the right white rail and wood-grain tile, then the rear colored cap. At each wrist, fit a yellow curved top above an inverted green curved tray, leaving the photographed open gap.

ADD 9 PIECES

P073 Thin white forearm rail
White

P074 Wood-grain forearm tile
Medium nougat

P075 Striped rear arm cap
Red

P076 Striped rear arm cap
Medium azure

P077 Striped rear arm cap
Yellow

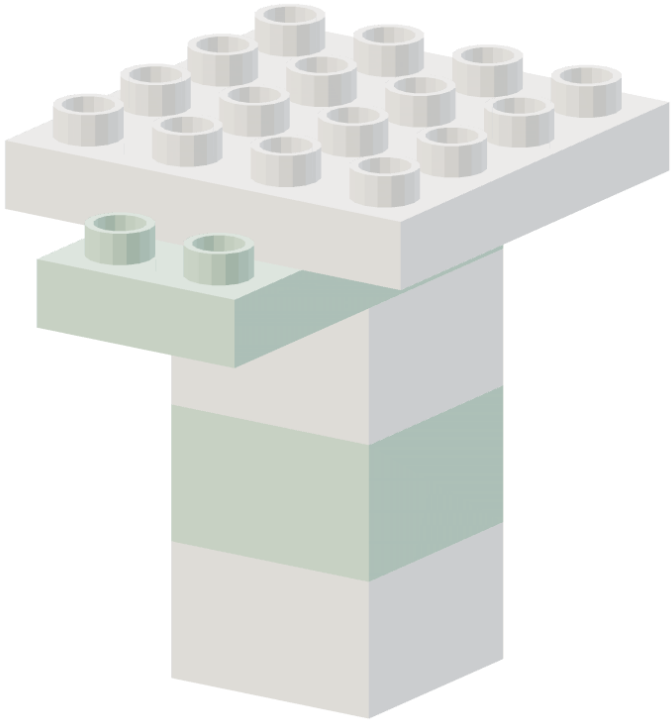
P078, P080 Yellow curved upper hand
Yellow x 2

P079, P081 Open green lower hand
Bright green x 2

Review: snap angles and variants are inferred. Compare with your physical build.

Color: add this step | Pale gray: earlier pieces

19 Alternating neck and head floor



FRONT 3/4 VIEW

Stack white, pale aqua and white neck bricks on the center of the shoulder bridge. Add the thin aqua support and white head floor above them.

ADD 5 PIECES

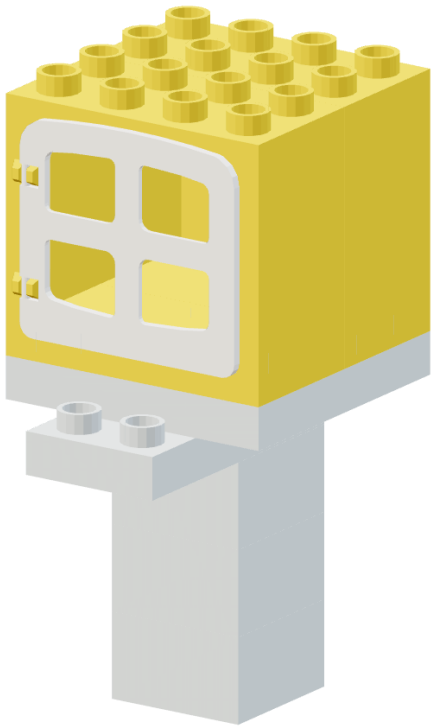
P082, P084 Alternating neck brick
White x 2

P083 Alternating neck brick
Light aqua

P085 Pale aqua neck support
Light aqua

P086 White head floor
White

20 Head windows



FRONT 3/4 VIEW

Build the two yellow head frames on the white floor. Place the rounded white four-pane insert at the front and yellow insert at the rear.

ADD 4 PIECES

P087 Front head frame
Yellow

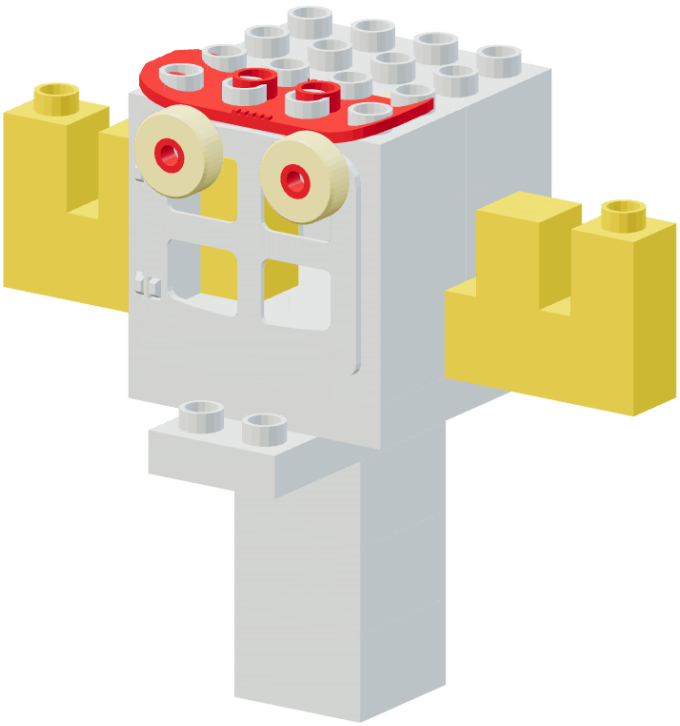
P088 Four-pane insert
White

P089 Rear head frame
Yellow

P090 Four-pane insert
Yellow

Color: add this step | Pale gray: earlier pieces

21 Ears and skateboard eyes



FRONT 3/4 VIEW

Add the yellow cutout ears. Place the red skateboard under the roof area with the front two yellow wheels facing forward as the eyes.

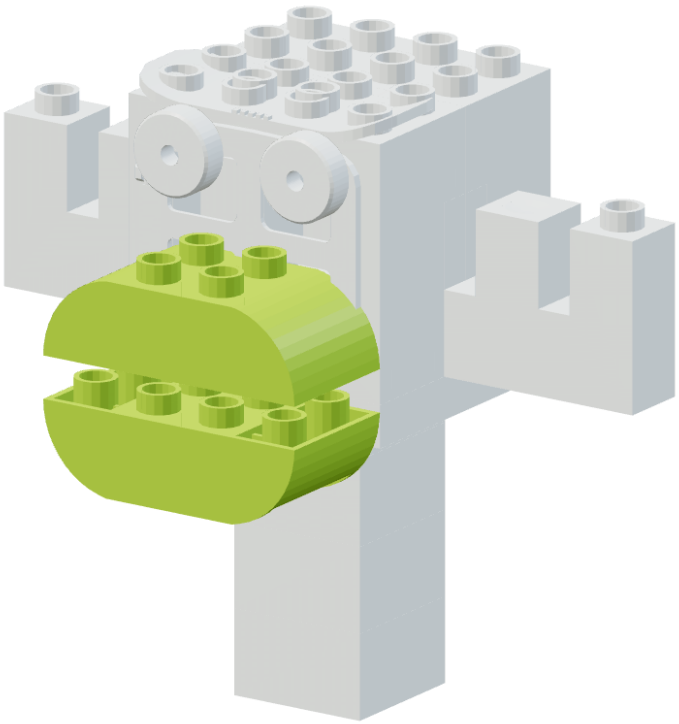
ADD 3 PIECES

P091, P092 Yellow cutout ear
Yellow x 2

P093 Red skateboard with yellow eye wheels
Red

Review: snap angles and variants are inferred. Compare with your physical build.

22 Open green mouth



FRONT 3/4 VIEW

Attach the two green curved pieces with a half-brick opening between them. Keep the four studs visible like teeth; the pale support was added with the neck.

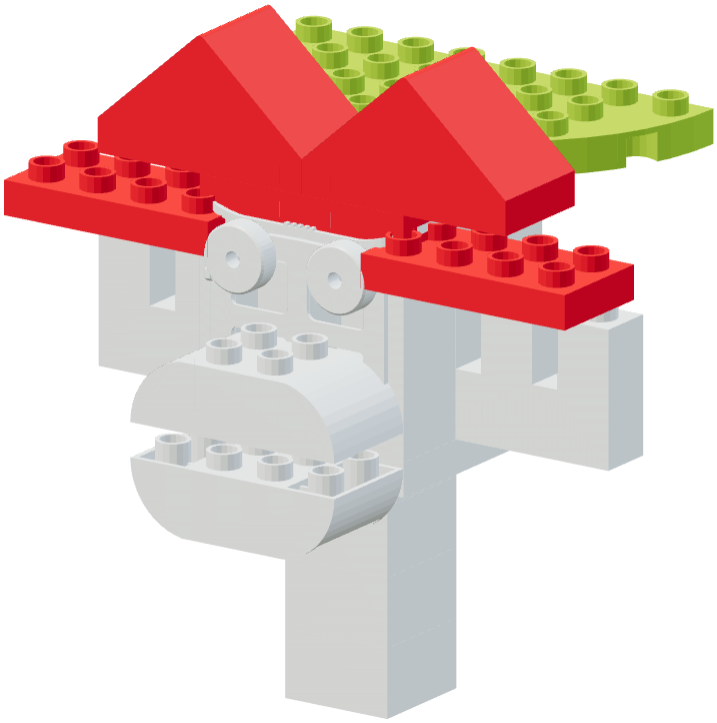
ADD 2 PIECES

P094 Lower green mouth with exposed studs
Bright green

P095 Upper curved green mouth
Bright green

Review: snap angles and variants are inferred. Compare with your physical build.

23 Separate red ledges and roof



FRONT 3/4 VIEW

Fit one red side ledge on each side of the skateboard, keeping the center open. Add the twin roof slopes and green brim behind them.

ADD 7 PIECES

P096, P097 Separate red side ledge
Red x 2

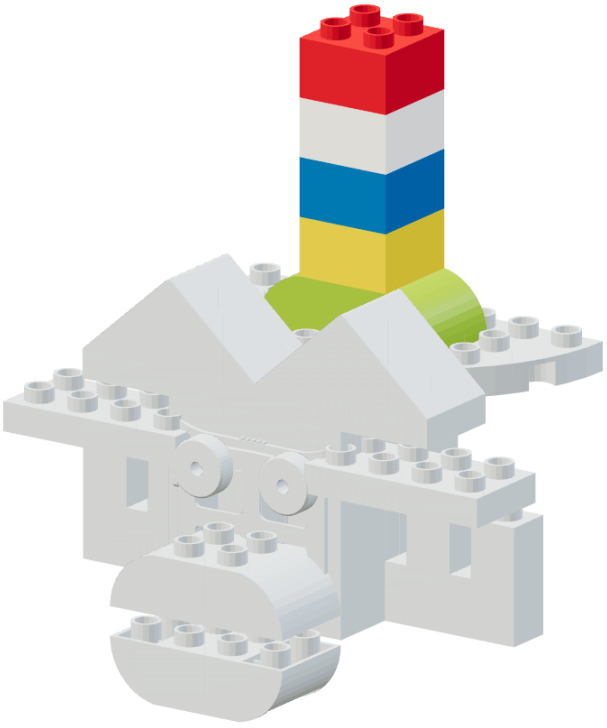
P098 Central red roof support
Red

P099 Rear tan brim support
Tan

P100, P101 Red double roof slope
Red x 2

P102 Rounded green hat brim
Bright green

24 Striped antenna



FRONT 3/4 VIEW

Fit the green antenna base and stack the yellow, blue, white and coral-red bricks in that order.

ADD 5 PIECES

P103 Curved antenna base
Bright green

P104 Yellow antenna stripe
Yellow

P105 Blue antenna stripe
Blue

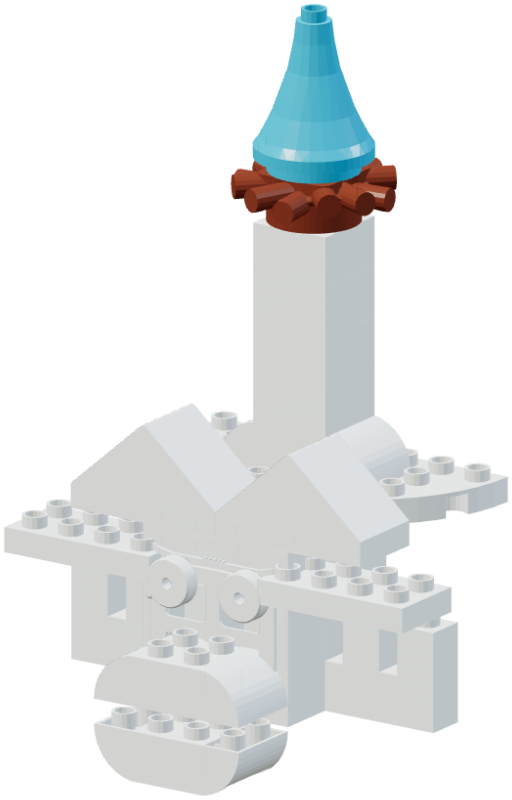
P106 White antenna stripe
White

P107 Red antenna stripe
Red

Color: add this step | Pale gray: earlier pieces

25 Branch nest and blue spire

FRONT 3/4 VIEW



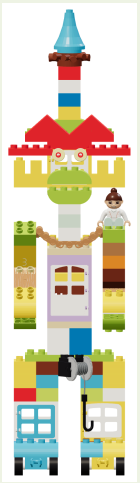
Fit the brown radiating branch piece above the red stripe, then the blue spire on its central studs. The circular branch ends remain visible.

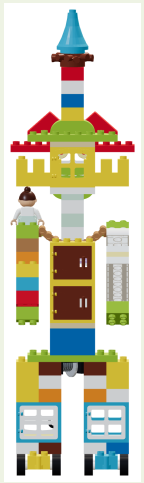
ADD 2 PIECES

P108 Brown radiating branch nest
Reddish brown

P109 Blue castle spire
Medium azure

Review: snap angles and variants are inferred. Compare with your physical build.





Final check
Compare the front and rear colors with the reference page. The front has the yellow eyes, green mouth and white chest door; the rear has the two brown gates.

The interactive viewer can show the complete model, isolate a step and spread the parts apart.

TAKE IT APART

Disassembly + credits

Work backward from step 25 to step 1. Remove the pieces listed in each step while supporting the lower assembly.



25 - 24	Spire, branch collar and striped antenna
23 - 20	Roof, skateboard eyes, mouth and head
19	Alternating neck column
18 - 15	Hands, wood tiles and upper-arm stacks
14 - 10	Shoulder bridge, rider, gates and chest
09 - 07	Winch, waist and hip structure
06 - 01	Thighs, windows, toes and car bases

Exploded view
Separation shows the digital groups. Explode offsets are illustrative and do not certify physical removal clearances.

SOURCES + GEOMETRY

User references: **mesh.glb**, **Untitled scan.ply**, and the additional front photograph. Parts geometry: LDraw.org library; unofficial bridge 31062. Duplo window frame 61649. Wood-grain tile 65109. Branch nest 31070. Licensed under Creative Commons Attribution 4.0. Geometry has been assembled, transformed and colored for this model. Unresolved details use modeled substitutes. Full file-level attribution is retained with the model sources.

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Alex Taylor [anathema]; Chris Dee [cwdee]; Codex reconstruction; Donald Sutter [technog]; Franklin W. Cain [fwcain]; Gerald Lasser [GeraldLasser]; J.C. Tchang [tchang]; James Jessiman; Magnus Forsberg [MagFors]; Marc Klein [marckl]; Mark Kennedy [mkennedy]; Massimo Maso [Sirio]; Max Martin Richter [MMR1988]; Michael Heidemann [mikeheide]; Niels Karsdorp [nielsk]; Orion Pobursky [OrionP]; Owen Burgoyne [C3POwen]; Paul Easter [pneaster]; Paul Schelleman [schellie]; Peter Blomberg [WUlt]; Philippe Hurbain [Philo]; Rolf Osterthun [Rolf]; Santeri Piippo [arezey]; Steffen [Steffen]; Steve Bliss [sbliss]; Takeshi Takahashi [RainbowDolphin]; Tim Gould [timgould]; Tim Lampmann [L4mpi]; Tony Hafner [hafhead]; Tore Eriksson [Tore_Eriksson]; Vincent Messenet [Cheenzo]; Willy Tschager [Holly-Wood]; [PTadmin].

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