

Single Hand Car House

Assembly Instructions

Before you begin the Hand Car House examine the parts and familiarize yourself with their locations on the model. Parts you wish stained should be done before construction begins since the glue will seal the wood and the stain will not "take" at these joints. If your model is to be painted in contrasting colors, that is the trim different from the body of the building, we suggest you do it now. A weathered stain for the Flooring and the Wooden Rails is recommended. A darker color for the Trim (Corner Posts, Rafters, Fascia Strips, Door Trims, and Foundations) would be good in contrast to a lighter color for the body of the structure. The wooden parts may need to be lightly rubbed with fine steel wool after the first coat of paint to help obtain a smooth finish and then followed by a second coat of paint.

Note the solid black spaces along the upper portion of the Front Wall in the Front View of the orthographic drawing. These denote the locations for the placement of the Rafters and the Fascia Strips. These locations are the same for the Back Wall.

STEP 1

B1	1 pc.	1/16 x 9/16 x 1-5/16 in.	Front Wall Section
B2	1 pc.	1/16 x 1-5/64 x 17/64 in.	Front Wall Section
B3	1 pc.	1/16 x 1-3/4 x 1-5/16 in.	Back Wall
B4	2 pcs.	1/16 x 1-13/32 x 1-23/32 in.	Stripwood Filler (Front Wall)
B5	1 pc.	3/64 x 3/32 x 1-5/16 in.	Corner Posts

Edge glue B1 and B2 Front Wall pieces together keeping the top edges even. Edge glue the B5 Stripwood Filler to the B2 Wall piece as in the drawings. Glue the four Corner Posts (B6) to the two Gabled Side Walls (B4) keeping the bottom edges of the Walls and Posts even and letting the excess Post extend above the top of the Wall. Let these Wall Assemblies dry thoroughly.

STEP 2

B8	1 pc.	1/16 x 1/16 x 3-1/2 in.	Door opening Trim
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Lay the Front Wall Assembly on a flat surface and cut the B8 Trim to fit the top and two sides of the door opening according to the Front View. Glue these pieces in place keeping the Wall Assembly flat until the unit is dry.

STEP 3

B9	1 pc.	1/32 x 1/16 x 1-1/4 in.	Foundation Filler
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Cut this piece to fit the two lower edges of the Front Wall and glue in place keeping all of the back surfaces flush. (Refer to the drawing.)

STEP 4

With a razor saw or sharp knife trim the excess Corner Posts which extend over the top of the Gabled Side Walls to the angle of these Walls.

STEP 5

NOTE: If the Doors of your Hand Car House are to be closed as in the drawings then follow this step. However, if you prefer to leave them open then omit this step and proceed to Step 6.

B10	1 pc.	1/32 x 1-1/8 x 1-1/4 in.	Door material (1/16" GP)
B11	2 pcs.	.023 x 3/64 x 4-1/2 in.	Door face Trim

Using the Front View as a guide, glue the Door (B10) to the backside of the Front Wall Assembly $3/32$ " in from the right side of the Wall to allow for the B5 Wall Filler to fit into the Corner Post and leaving a $1/16$ " clearance at the bottom to allow for the Wooden Rails (B14).

Lay this Assembly on a flat surface and cut the Door Trim pieces (B11) to fit on the face of the Door per the drawings. Glue the Trims in place.

STEP 6

NOTE: Follow this step only if the Doors are to be left open in your model.

B10	1 pc.	$1/32 \times 1-1/4 \times 1-1/4$ in.	Door material ($1/16$ " GP)
B11	2 pcs.	$.023 \times 3/64 \times 4-1/2$ in.	Door face Trim

From the Door material (B10) carefully cut a piece to fit into the door opening leaving a $1/16$ " clearance at the bottom to allow for the Wooden Rails (B14). Divide this piece vertically into two equal parts to form the two Doors.

Lay these Doors on a flat surface and cut the Trim pieces (B11) to fit on the Doors per the drawings. Glue them in place and set aside to dry.

STEP 7

Glue all four Walls together being careful to keep them square until dry.

STEP 8

B13	2 pcs.	$3/64 \times 1-3/4 \times 1-3/4$ in.	Flooring ($1/8$ " GP)
B14	2 pcs.	$3/64 \times 3/64 \times 3-1/2$ in.	Wooden Rails

Assemble the Flooring by edge gluing the two pieces together as in the drawings. When this unit is dry mark the locations of the Rails with a pencil by following the dimensions given on the drawing. If you have a Hand Car already built for your layout you might check the distance between Rails with that of the wheels of the Car since tolerances vary according to individual modelers and manufacturers. When you have established the proper distance between the two Rails glue them to the Flooring.

STEP 9

B12	1 pc.	$1/8 \times 1/4 \times 1-7/8$ in.	Roof Beam
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Trim the Roof Beam to fit between the peaks of the two Gabled Side Walls. Glue the Beam in place.

STEP 10

B7	1 pc.	$5/32 \times 5/32 \times 5-1/4$ in.	Foundation material
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From this piece of material you must cut three pieces to form the Foundation of the structure. Start with the two side pieces and cut them to fit your model from the Front corner to the Back corner as in the Side View. Now follow the isometric drawings carefully and cut away the inside corners of the Foundation pieces $5/32$ " in on each end to clear the Corner Posts. Make certain you have a snug fit on the inside of the building and glue these two side Foundations in place.

Cut the third piece of Foundation to fit the Back Wall between the two pieces you have just glued in place. This section will have to have the inside corners of the material trimmed away $1/16$ " in on either end as noted in the isometric drawing. Glue this piece in place.

STEP 11

Trim off the back ends of the Rails to enable the Flooring to slide into place between the two Side Foundation pieces and snug against the Back piece as noted in the isometric drawing. Glue the Flooring in place.

If you have chosen to have the Doors open then glue them in place now.

STEP 12

B14 1 pc. 3/64 x 3/64 x 3-1/2 in. Cap Strip

Follow Step 8 of the Supply Shed instructions for the Shingling of the Roof Cards. When the Cards are complete and dry glue the Roof to the building with an equal overhang on each side.

From the B14 wood cut a Cap Strip the length of the Roof and glue it in the groove at the peak.

STEP 13

B15 4 pcs. 1/32 x 3/32 x 3 in. Rafter Tail & Fascia Strip material

Use the Side View and with the B15 material provided cut four Fascia Strips using the drawing as a template. Then cut fourteen Rafter Tails as shown. Using the Front View as a guide to the placement of the Rafter Tails on the Front and Back Walls glue them in place to the Walls and to the underside of the Roof Cards.

Glue the four sections of Fascia Strips to the underside of the Roof Card overhang as in the drawings.

STEP 14

Restain or paint any parts that have been left unfinished by trimming or cutting. Place the barrel and oil drum in the most likely place. Add a lazy old hound dozing in the sun and a few workmen to bring the model to life.

As the ultimate touch of realism a Hand Car will really complete this scene that can't fail to become the center of interest and conversation when you have installed it on your layout.

#370-9/30/71

Supply Shed

Assembly Instruction

Abbreviations used: GP = gangplanked or gangplanking

STEP 1

Tape the drawing sheet to a large working surface. Sort and identify all the precut parts. Check the parts against the drawings. Sometimes changes in humidity or temperature will cause the paper or wood to shrink or swell making the drawings slightly out of scale. If the wood parts do not exactly fit the drawings, work from the center, splitting the difference. Some of the wood parts are "stock" sizes and must be cut by the modeler as construction progresses.

Tape strips of Scotch tape, sticky-side-up over the length of the four arrows of the Floor/Platform View.

STEP 2

NOTE: As you look at the Floor - Plan View you will notice that you are looking at the underside of the Floor/Platform Assembly. This construction will be done upside down starting with the gangplank Flooring, followed by the Joists and finally the Beams, Legs and Braces. Once all of the gangplanking is in place the modeler will have to rely on the shaded strips along the outside of the Floor/Platform Assembly for placing the Joists and Beams. Therefore, study this View closely and have it well in mind before commencing.

A1	1 pc.	1/32 x 1-1/64 x 3-1/2 in.	Flooring (3/32" GP)
A2	1 pc.	1/32 x 1-17/32 x 5-9/32 in.	Flooring (3/32" GP)
A3	1 pc.	1/32 x 1/8 x 1-57/64 in.	Floor Joist
A4	12 pcs.	1/32 x 1/8 x 2-17/32 in.	Floor Joists
A5	6 pcs.	1/32 x 1/8 x 1-1/2 in.	Floor Joists
A6	1 pc.	1/16 x 3/32 x 3-1/2 in.	Floor Beam
A7	1 pc.	1/16 x 3/32 x 5-9/32 in.	Floor Beams
A8	2 pcs.	1/16 x 3/32 x 4-29/32 in.	Floor Beam
A9	29 pcs.	1/16 x 1/16 x 9/32 in.	Legs

The parts you wish stained should be done before construction begins since the glue will seal the wood and the stain will not "take" at these joints. If your model is to be painted in contrasting colors, that is the trim different from the body of the building, we suggest you do it now. A weathered stain for the Floor, Joists, Beams, Legs and Braces is recommended. A darker color for the trim (Corner Posts, Rafter Tails, Fascia Strips, Door Trims and plastic parts) would be good in contrast to a lighter color for the body of the structure.

Begin with the two pieces of Flooring (A1 and A2). Edge glue these together according to the drawings. Lay the Flooring on its location in the drawing on top of the Scotch tape with the scribed side down and cut a rectangular piece from the lower right hand corner of the dimensions indicated in the drawing.

Using the toned guide strips glue A3, A4 and A5 Joists across the Flooring. Make sure the ends of the Joists are flush with the outside edges of the Flooring.

Glue the four Floor Beams (A6, A7 and A8) in place along their guide lines across the Joists. When the Assembly is completely dry pull the Scotch tape free from the drawing. Turn the Assembly right side up and carefully remove the tape from the top of the gangplanking. With a knife or scribe groove the Flooring at random

directly over the Joists to simulate individual planks as shown in the isometric drawing.

Turn the Assembly upside down again and follow the drawing to mark the locations of the twenty-nine Legs (A9). Glue the Legs in place on the underside of the Assembly. Let this unit dry and turn it right side up and while the Walls of the building are being constructed weight the Floor/Platform Assembly so it will not warp.

STEP 3

A10	1 pc.	3/64 x 1-21/64 x 3-11/32 in.	Front Wall
A11	1 pc.	3/64 x 1-21/64 x 3-11/32 in.	Back Wall
A12	1 pc.	3/64 x 1-49/64 x 1-21/32 in.	Gabled Office End Wall
A13	1 pc.	3/64 x 1-49/64 x 1-21/32 in.	Gabled Freight End Wall
A14	4 pcs.	5/32 x 5/32 x 1-1/2 in.	Corner Posts

Finish cutting out all of the door, vent and window openings and check the plastic parts for fit. Trim where necessary but do not glue any in place at this time.

Using a knife or scribe again, divide the siding material into horizontal "boards" so they appear as individual planks of assorted lengths, as shown in the drawing. For a warped board effect occasionally cut completely through the Siding and with the point of the knife lift the board at the cut and apply pressure to the other end until it almost breaks. When you have as many divisions and warped boards as you want turn the Walls over and dab the raised joints with glue so they will retain their positions.

Glue the four Corner Posts (A14) to the two Gabled End Walls (A12 and A13) keeping the bottom edges of the Walls and Posts even and letting the excess Post extend above the top of the Wall. When the glue is thoroughly dry use a razor saw or a sharp knife and trim the excess Corner Posts to the angle of the Gabled End Walls.

STEP 4

A16	1 pc.	1/16 x 1/16 x 3 in.	Door Opening Trim
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Lay the Front Wall (A10) on a flat working surface. Cut the A16 Trim into three pieces to face the door opening. Start by cutting the horizontal piece first and gluing it in place to the inside of the top edge of the opening. Cut the two side pieces and glue them in place as shown in the drawing keeping all back surfaces flush and letting the Trim project on the front.

STEP 5

NOTE: If the Freight Door of your Shed is to be closed as in the drawing and the photograph then follow this step. However, if you prefer to leave it open proceed to Step 6.

A17	1 pc.	1/32 x 1-1/8 x 1-1/4 in.	Door (3/64" gangplanking)
A18	5 pcs.	.023 x 3/64 x 3-7/8 in.	Door Face Trim & Fascia

Using the isometric drawing as a guide, glue the Door (A17) to the backside of the Front Wall. Keep all the lower edges even. Use the Door Template, Figure A, as a guide for cutting the Face Trim (A18) and glue in place. Save all the remaining A18 strips for the Fascia.

STEP 6

Note: Follow this step only if the Freight Door of your model is to be open.

A17	1 pc.	1/32 x 1-1/8 x 1-1/4 in.	Door (3/64" GP)
A18	5 pcs.	.023 x 3/64 x 3-7/8 in.	Door Face Trim & Fascia

From the Door material (A17) carefully cut a piece to fit into the opening on the Front Wall. Using the Door Template, Figure A, cut the Trims (A18) and glue in place on the Door. Glue the Door to the backside of the Front Wall as a sliding door pushed to the right hand side.

STEP 7

A15	1 pc.	1/8 x 1/8 x 3-7/16 in.	Roof Beam
A24	2 pcs.	Plastic	Windows
A25	1 pc.	Plastic	Door
A27	2 pcs.	Plastic	Attic Vent

Glue all of the plastic parts into their respective openings. Add acetate (not included in the kit) behind each window to represent "glass panes" if desired. Glue all four Walls together being careful to keep them square until dry. Sand or trim the Beam (A15) to fit between the peaks of the Gabled End Walls and glue in place.

STEP 8

A19	1 pc.	3/64 x 3/64 x 3-3/4 in.	Cap Strip
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Cut the Roof Cards along the heavy outline and thru the center on the broken line. The Roof Cards are printed with ruled lines to serve as guides for laying the rows of Shingles. From the roll of "Profile Shingles" provided cut strips slightly longer than each Roof Card. The material is gummed on the back. Moisten only the unnotched edges with a small paint brush dipped in water and apply the strips along the printed guide lines, starting with the wide space at the bottom edge and working upward. The last row of Shingles is applied by moistening the notched edge and allowing the unnotched edge to extend beyond the top of the Card.

Immediately upon completing each Roof Card dry it under pressure to prevent warping. Sometimes warping is unavoidable and if it happens do not be too concerned since the Cards can be easily bent back into a flat position later.

When the Roof Cards are thoroughly dry trim the ends of the Shingle rows leaving approximately 1/32" extending beyond the Cards. Trim the excess Shingle material at the top of each Roof Card flush with the Card top.

Turn the two Cards facedown on a flat surface and butt the top edges. Tape them together along this joint with Scotch tape.

Glue the Roof to the building with an equal overhang on each side.

Cut the Cap Strip (A19) to fit the length of the Roof and glue it into the groove at the peak.

STEP 9

From the remaining strips of A18 (Step 5) cut the four Fascia sections for the gabled ends of the Roofs as shown in the isometric drawing. Glue these pieces to the underside of the Roof Card overhang, inset about 1/32" on both sides.

STEP 10

A26	3 parts	plastic	Smoke Jack
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The Smoke Jack can now be fitted by elongating the hole slightly in the Roof Plate so that the Stove Pipe will fit in a vertical position. Glue in place when properly aligned. Glue the Cap in place. Drill a hole in the Roof for the Pipe and glue the unit in place at the left rear of the office end of the structure. Paint the Smoke Jack assembly flat black and add a little "rust" running down the Pipe and onto the Shingled Roof.

STEP 11

A23 9 pcs. .023 x 3/64 x 4 in. Leg "X" Braces

The Floor/Platform Assembly may now be completed. With the wood stock (A23) cut the Leg "X" Braces per the Side Profile and Front Profile Views for the perimeter of the Platform. Glue these in place as shown in the drawings.

STEP 12

A21 2 pcs. 1/32 x 3/32 x 3-1/4 in. Step Stringers
 A22 8 pcs. 1/32 x 1/8 x 1/2 in. Treads

Use the Step Stringer Template, Figure B, as a guide and cut the two Stringers in four places as shown. Attach two lengths of Scotch tape, sticky-side-up, to your working surface. On one piece of tape lay pieces "X" and "Y" of the Stringers on their bottom edges. Make sure these two are aligned with each other evenly and have a distance between of 3/8". Now glue four of the Treads in place to form steps. On the other piece of tape repeat this process with the other two pieces of "X" and "Y" and the remaining four Treads. When both units are dry remove them from the tape carefully. Glue these Assemblies in their places per the drawings.

STEP 13

Follow the heavy outline of the rectangular section on the Floor - Plan View and glue the completed structure on the Platform Assembly. Refer to the isometric drawing.

STEP 14

A20 1 pc. 1/32 x 3/16 x 5 in. Shelving material

Using Figure C as a template construct the Shelf for added detail to your new Shed. Place it as shown in the isometric drawing where it will be a handy catch-all

STEP-15

Cut the sign from the card and glue it to the Roof of the building as shown in the photograph. Use scraps of wood for bracing the back of the sign.

Because this model is not "typed" by style, size or construction there are few exceptions to the ways and places in which it can be used when given your own personal touch. Staining, painting or weathering can contribute a great deal to the appearance of this model as well as a little thoughtful detailing. Placed near the track or in a mining, industrial or farming area you will find this little Shed will blend in effortlessly and be equally at home anywhere.

Campbell Scale Models

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