

CONCEPT MODELS

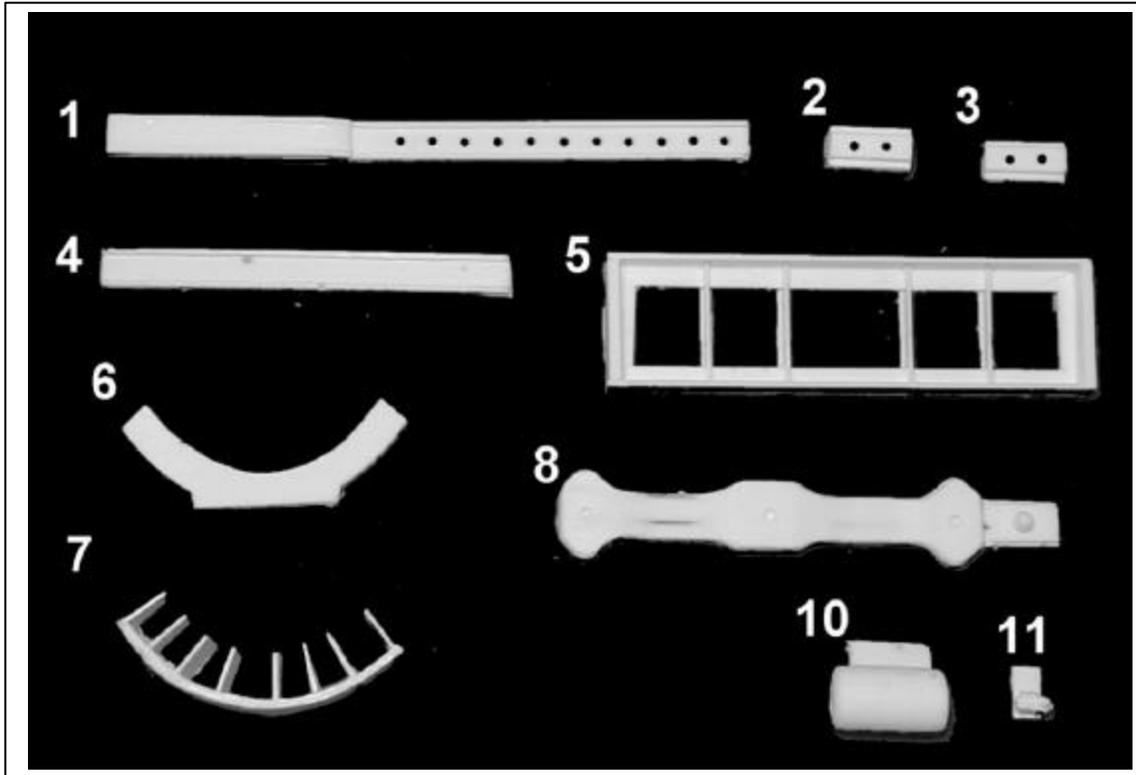
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**INSTRUCTIONS FOR PRODUCT
GEX 711 OPEN FRAME FLAT CAR**

PARTS – GEX 711 OPEN FRAME FLAT CAR



Item No.	Part No.	DESCRIPTION	QTY.
1	7034-1	Long Half "T" Beam	4
2	7034-2	Beam Bolster Mount	4
3	7034-3	Beam Locking Plate	4
4	7034-4	Short Half "T" Beam	4
5	7034-5	Open Frame	1
6	7034-6	Saddle Face	4
7	7034-7	Saddle Braces	2
8	CM 1044	Dual 3-Axle Truck Bolster	2
10	7034-10	Air Tank	1
11	7034-11	Brake Valve With Tab	1
12	7034-12	End Caps (1-1/4")	2

Part No.	GENERIC PARTS	QTY.
	s.f.= scale feet	
1013-0	1/8" Pan Hd. Screws	2
1020-0	Brake Reservoir	1
1018-0	Brake Valve	1
1012-0	Coupler Cover	2
	3/8"x2-56 Pan Hd Screws	2
	1/8" Tube x 4'	2
	Shim Set	1
	1-1/4" PVC Tube x 67 s.f.	1
7034-12	Decals (set)	1
7034-13	Instructions	1

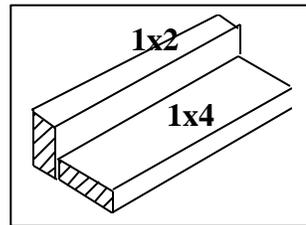
Tools

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, Wood blocks for holding parts square, metal square, etc.

Drills: 1/8", #76, #72, #68, #50 (2-56 tap drill), #65

Music Wire .020" for handrails. Athearn stanchions for tanks cars.

Pins (dressmaker type) for attaching brake wheels and other items.



This fixture is a great aid to assembly. It helps hold parts square while gluing and aids in drawing horizontal lines on tanks for tank cars.

WARNING

Some parts may have lead encapsulated within them. In the event the lead is exposed for any reason, do not allow it to remain on the skin. Dispose of any lead shavings that may result. Obey all safety precautions of all suggested cements and assembly materials.

NOTE: This kit consists of resin castings and must be assembled with an ACC cement (not provided) – both the thicker types as well as the thin. Solvent cements will **NOT** bond the parts together! They can dissolve them. Resin parts are more fragile than common styrene plastic used in injection molded models. Use reasonable care in handling and do not apply any solvents. The illustrations at the front show the general layout of parts for the car. Work very carefully when positioning the parts for gluing. ACC cements adhere very quickly and permanently.

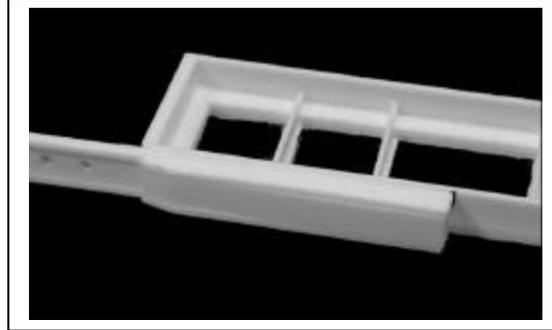
Gluing with ACC Cements – USE WITH CARE

ACC cements allow the modeler to work very quickly. A general rule is to use the thin cements to glue long joints taking advantage of capillary action that makes the cement run the length of the seam. The thicker cement is suited to applying large area parts to each other. An accelerator can be applied sparingly. One technique is to apply the glue to one part and the accelerator to the other part to be joined. I also use a Q-tip to apply a minute amount of accelerator to the glue after the parts have been joined. The accelerator triggers the ACC cement to set very quickly. It is only slightly slower with the thicker cement.

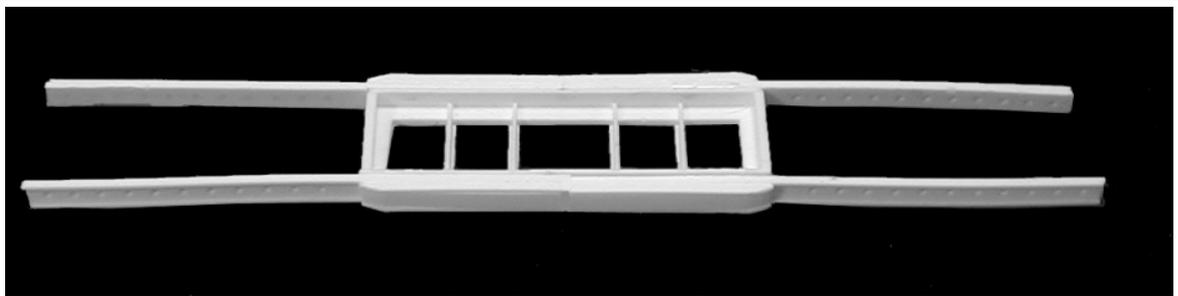
PREPARATION Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.

ASSEMBLY

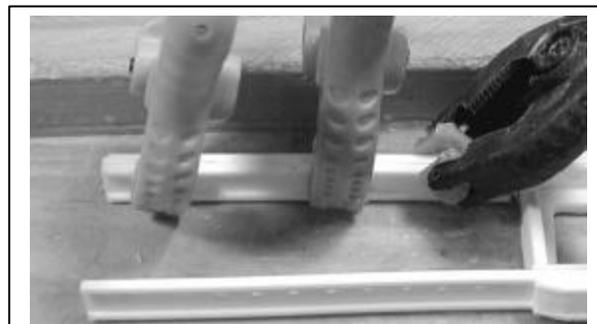
1 Mark the center on the Open Frame (5) and attach one of the Long Half "T" Beams(1) to the frame as shown.



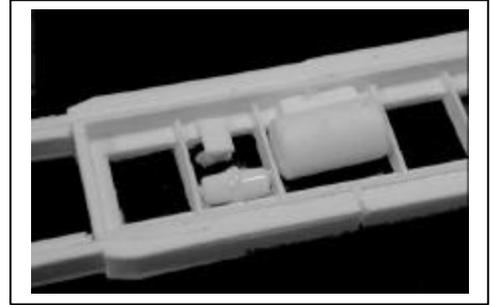
2 Continue with the three remaining beams until you have the frame and beams assembled as shown.



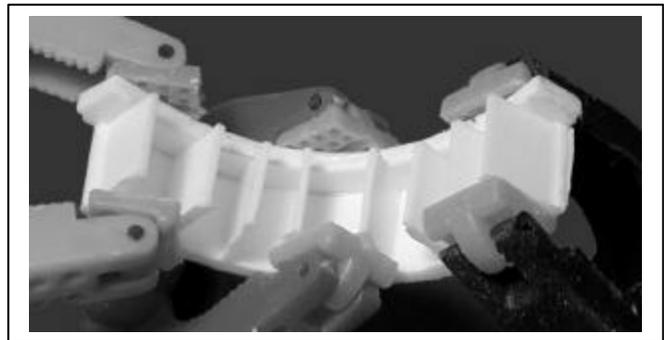
3 Now cement and clamp the Short Half "T" Beams (4) to the inside of the Long Half "T" Beams (1) as shown.



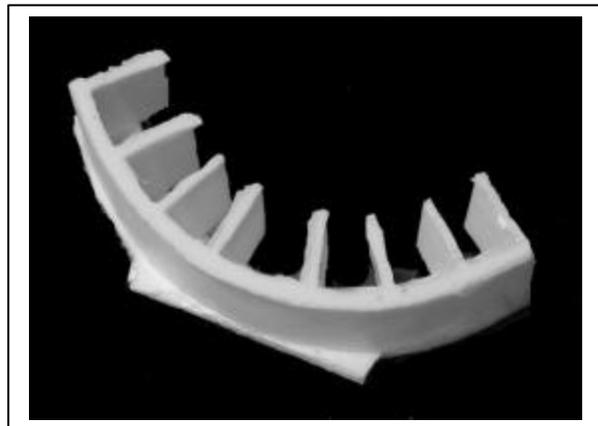
4 Install the Air Tank (10) with the tab as shown on the frame. It will be necessary to file the tab so the tank fits against the frame side. Add the Brake Valve (11) by cementing with the tab as shown. Add the Brake Reservoir by cementing to the frame members.



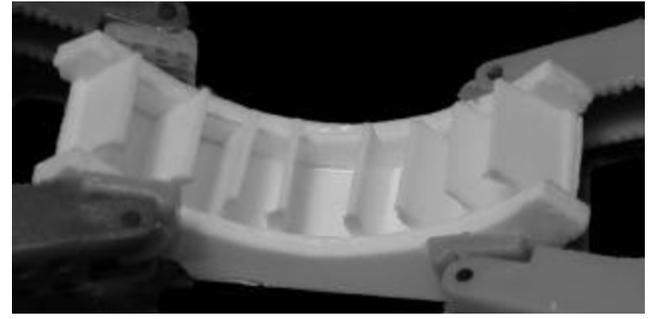
5 Attach Saddle Braces (7) to one of the Saddle Faces (6) as shown. Make the curved sections match. The braces will be trimmed later.



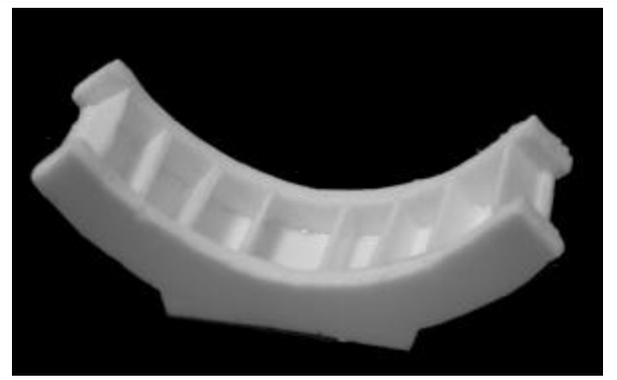
6 The one saddle face and brace should look like this.



7 Attach another saddle brace to the saddle assembly. **MAKE SURE THE BOTTOM STRAIGHT SUFACES ARE EVEN.**



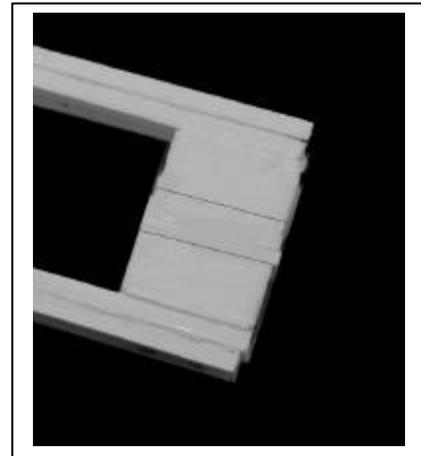
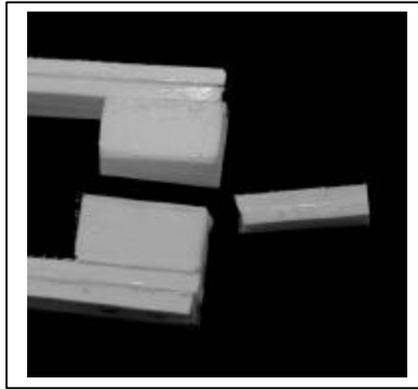
8 Trim away the excess length of the brace to make it as shown,



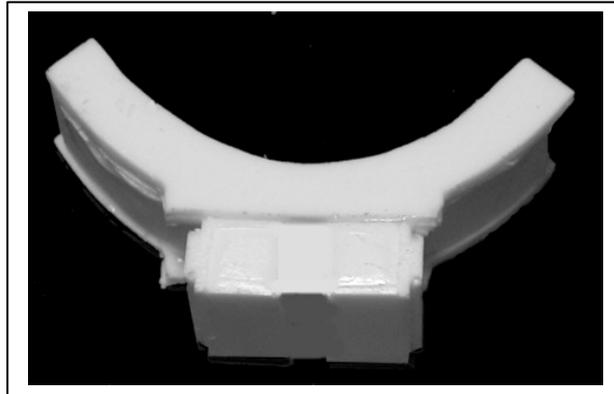
9 The following is critical to the function of the car adjustment. Place a piece of adhesive take on the work surface, Use two-faced tape if you have it otherwise tape the ends down with another short piece of tape. Use the completed frame assembly to position two of the Beam Bolster Mounts (2) so that they will engage the grooves of the "T" beam sections of the frame assembly. When you are sure that the frame assembly will slide all the way to the center most position, remove the frame assembly and cement the assembled saddle to the Beam Bolster Mounts.



10 Fit the small styrene shims provided to fit between the Beam Bolster to make sure they are parallel. The saddle and bolster mounts should now look like this.

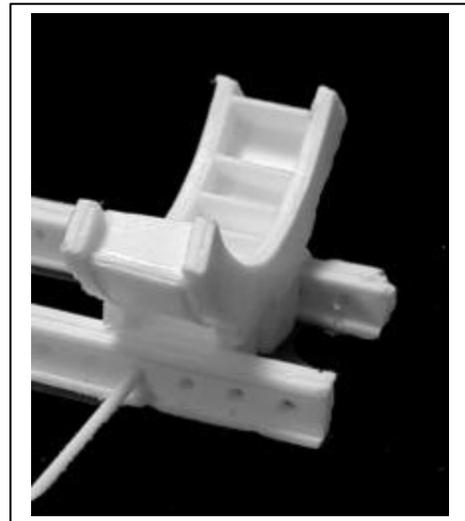


11 Mount the saddle assembly as shown. Make sure there is clearance for the edges of the Beam Bolster.

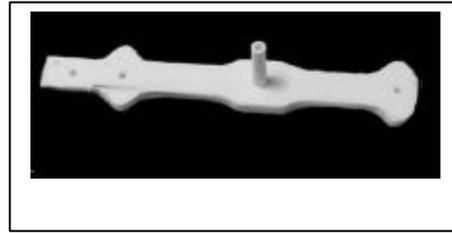


12 Two methods for attaching the saddle assembly to the frame assembly: Moveable or Permanent if you are settled on one specific load for the car. Permanent only requires setting up the desired position of the saddle bolster and drilling and cementing in the short pieces of 1/16" rod.

Moveable is more complex. You can 00-90 or 1-72 x 3/8" screws, preferable bolt heads, and drill and tap for the ultimate in flexibility.



11 Cement the 1/8" tube to the Truck Bolster
(Flat face up).



LOAD — Assemble the load by cementing the end caps in place. Add any details you desire.

PAINTING

- 1) If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer is recommended. Allow to dry overnight before proceeding with any of the color coats. When painting with white do not over dilute with thinner White on top of primer is recommended for light colors yellow through red. It improved the color.
- 2) Overcoat entire car with Testor's Glosscoat prior to decaling. If you decal over the Glosscoat as soon as it is dry to the touch, decal adhesion is improved.
- 3) Ace Hardware has Chrome Silver paint in 1/2 pint cans. Dilute 50:50 for airbrush painting. Overcoat with Testors Dullcote to get a realistic metal appearance. A dusting of a rust might be appropriate.

DECALING

NOTE: The decals provided are a very thin film decal film. Success with these decals depends on following these instructions. The glue used for the decal sheet is different than what has been used in the past. The water does not dissolve the glue. Water causes a chemical reaction causing an almost immediate release of the decal. For this reason once the decal has been wetted it must be used quickly. It cannot be re-wetted later for use.

- 1) Cut out the decal segment you are going to apply.
- 2) Dip the decal in warm water which has had 1 drop of DAWN kitchen detergent. Do **NOT** leave the decal to soak in the water and slide off the backing..
- 3) Slide the decal directly off of the backing onto the wetted surface with a small brush or tweezers. Position with the brush. Remove excess water with a tissue.
- 4) A decal setting solution is recommended for best adhesion.
- 5) Top coat the decals with Testor's Dullcote for best results.