QUICK-BUILD
PLAN SETS FOR TABLE SAWS

Wood Toy Cars and Trucks



All submissions for reference only!

Wood Toy Cars and Truck

QUICK-BUILD PLAN SETS FOR TABLE SAWS

Toymaker Press is dedicated to providing you with the in plan sets you need to develop your skills as a toymaker. your comments and any suggestions about this collection

Email: johnlewman@toymakerpress.com

WOOD TOY

CARS AND TRUCKS

QUICK-BUILD PLAN SETS FOR TABLE SAWS

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Always read and observe all of the safety precautions provided by manufacturers of any tools, equipment or supplies. Follow all accepted safety procedures.

> Toymaker Press, Inc. Shawnee, KS 66216 www.toymakerpress.com







1SBN 978-1-4507-0045-0 90000> 9781450 700450

























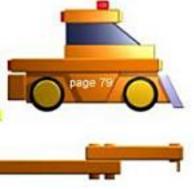












Wood Toy Cars and Trucks

QUICK-BUILD PLAN SETS FOR TABLE SAWS

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Getting Started 🕽 🥽 👼 📆 📆













Hand crafted wood toys are a pleasure to make for fun or for profit. You can easily get started using simple tools and readily available materials.



Setting Up a Basic Toymaker Shop

All you need to get started are basic hand tools. Begin with a hand saw and miter box, plus a hand drill with 3/8" and 7/16" drill bits. Standard lumber yard wood, wood dowels, woodworker's adhesive (glue), sandpaper and paint complete the list.

If you want to go into production and build a large number of toys for profit, a small table saw, band saw or scroll saw works great. Add to that a small drill press or electric hand drill and you have all the power tools you need to get your business started.

You can set up a basic production power shop with a low cost table saw and a low cost drill press. Used equipment often works just as well as new. We often purchase our tools off the internet. There are a lot of great sites that offer competitive pricing.



If your workspace is limited you can arrange a temporary setup to make several toys on the kitchen table. It is a good idea to keep a vacuum cleaner handy to pick up the sawdust as you work. The cuts are small and do not create a lot of waste material and vacuuming sawdust as you build insures a clean, professionally built toy.









woodworker's adhesive

pack of sandpaper

standard lumber yard wood

Gathering Materials and Supplies

Visit your local home improvement center and to purchase everything you need to get into production. You'll need glue, sandpaper and wood for starters. The body and chassis of each toy are best constructed from the lighter woods like spruce, white pine and poplar.

Wheels, hubcaps and axles are made from standard hardwood dowels. The edges of the wheels are rounded by hand using 100 grit sandpaper.

Each of the toys is painted with non-toxic water based acrylic latex enamels. Hardware stores and other paint suppliers usually have a selection of bright acrylic latex enamel colors in half-pint to quart size containers. The smallest containers of paint will coat several toys.



Transferring Dimensions of the Toy Plan Onto the Wood



The toy plans in this book are complete and detailed with full size drawings for every part of every toy shown. Each of the parts is made from dimensional lumber. The lumber thickness called out for each part is available at lumber suppliers or can be easily cut with your saw.

Lumber is commonly available in 1/2", 3/4" and 1-1/2" thicknesses. All the toys in the book are designed around these dimensions.

A standard 10' measuring tape works great for transferring the dimensions from the toy plan onto the wood stock. A standard 12" ruler also works well.

A lead pencil can be used to prevent staining and denting the wood when marking dimensions.

Cutting Parts to Size

Each part is shaped with straight cuts only. This method creates the unique blocky style of the toys. It also makes it easy to produce several toys quickly.

Follow all manufacturer's safety rules that are packaged with the saw, drill and all tools. Please review the Operator's Manual often as a reminder to practice safe and responsible crafting.

Gluing Parts Into Assemblies

A thin layer of woodworker's glue is applied to each part. The gluing surface of each part to be glued together must be covered evenly with glue. Press the parts together tightly. Set the assembly aside until the glue has dried.

Sanding Parts to Shape

The edges of each toy are rounded for a finished look and for safety. It also prevents splintering while minimizing the damage if the toy is thrown or dropped.

Wheel edges are also best when rounded. Edges are rounded by folding a sheet of 100 grit sandpaper into a small pad and sanding each edge vigorously for the desired roundness. If beveled edges are preferred wrap the sandpaper around a small flat piece of wood.

Applying Final Touches to the Toy

After the parts are glued together and the glue is dry lightly apply one coat of paint to the assembly as a primer. Prime the wheel and hubcap assemblies separately from the toy body. Do not paint the axles.

Keep paint out of the axle holes in the toy bodies and out of the holes in the wheels that receive the axles by inserting a scrap of axle dowel in each hole. Remove the scrap dowels after painting the wheels.

The first coat of paint will appear a little rough or spotty because the moisture from the paint causes the grain of the wood to swell.

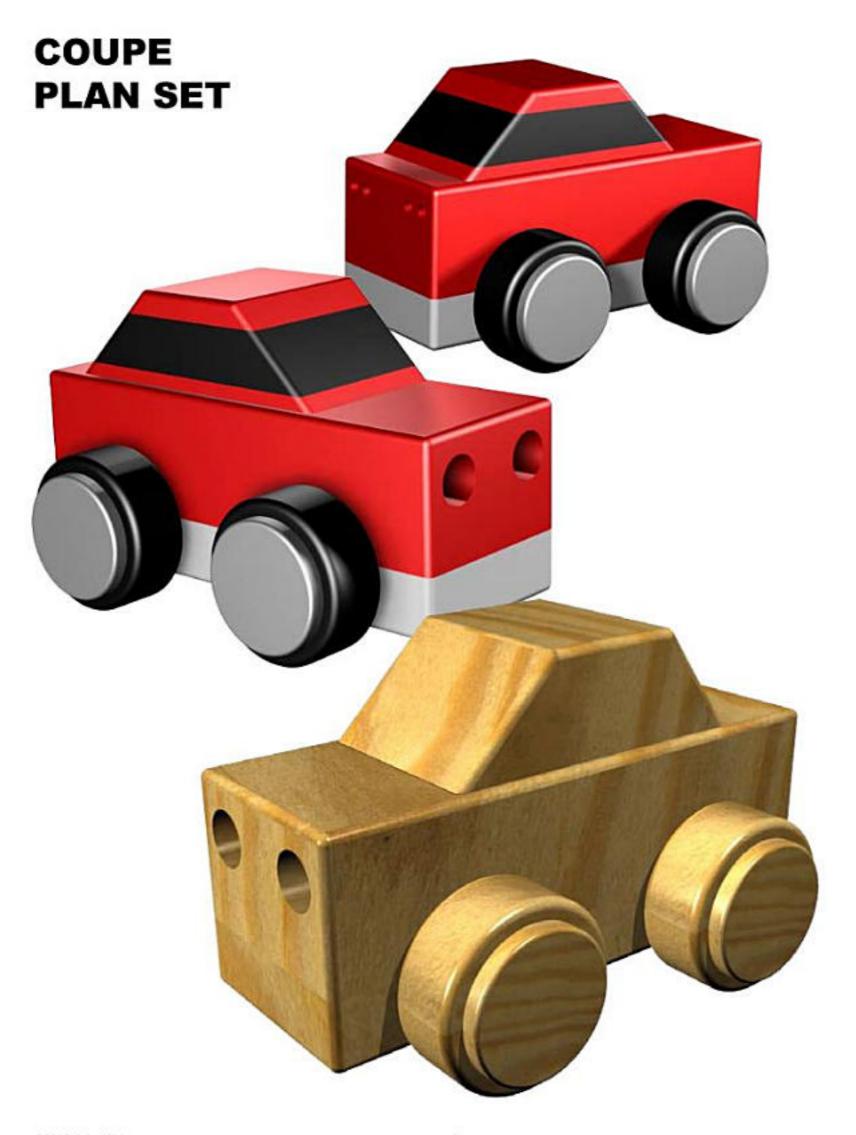
Make sure the paint is thoroughly dry then sand the first coat with 200 grit sandpaper until the part is smooth. Do not sand the painted toy down to the bare wood. Apply at least 2 more coats of paint for a professional finish. Sand each coat except the final coat.

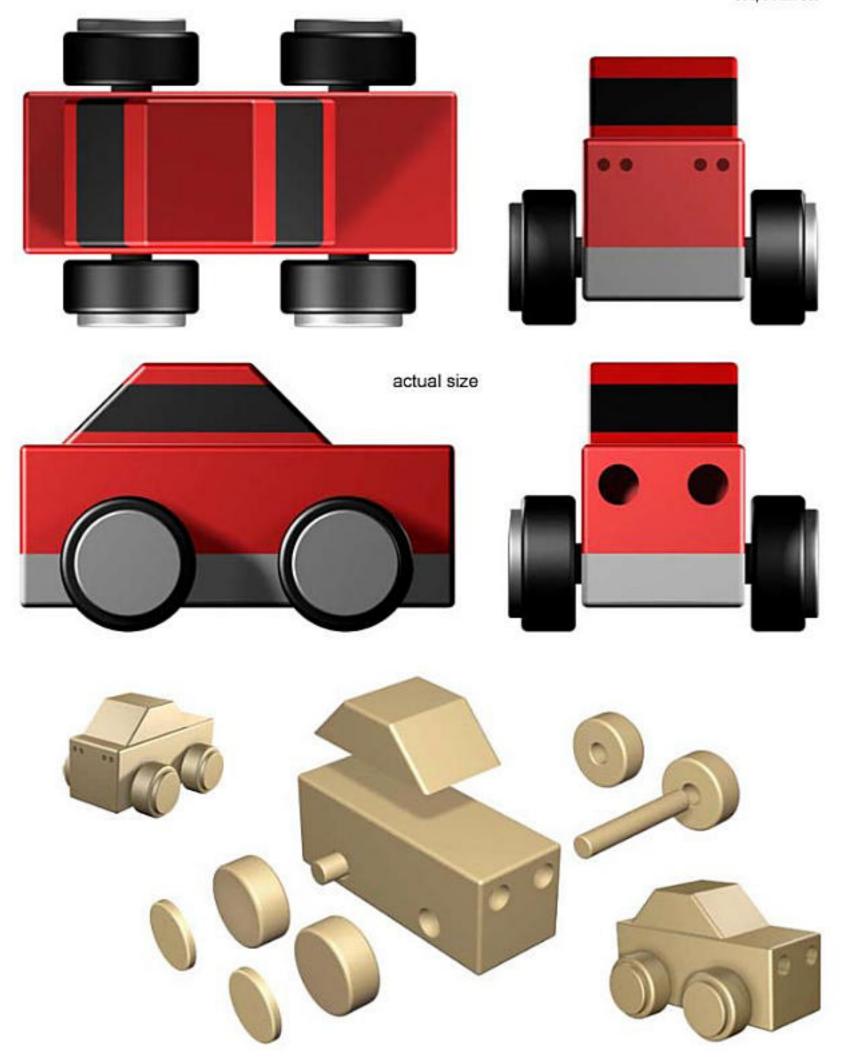
Bringing It All Together

Place a drop of glue into a wheel hole and insert the unpainted axle firmly into the hole. Insert the axle and wheel assemblies into the axle holes in the toy body. Place a drop of glue into the opposite wheel and then press the wheel firmly onto the axle. Repeat for each axle hole in the toy body. The toy is now finished and ready for play.



With a little planning you can make several wood toy cars and trucks in a few hours. And by using common lumber to keep your costs low you can build the entire set and stay within your budget. So let's get started!







COUPE PARTS LIST

1. CHASSIS MAKE 1 1-1/2" X 1-1/2" X 4" PINE

2. TOP MAKE 1 3/4" X 1-3/8" X 2-9/16" PINE

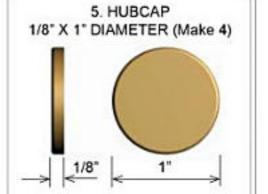
3. WHEEL MAKE 4 1/2" X 1-1/4" DIA. DOWEL

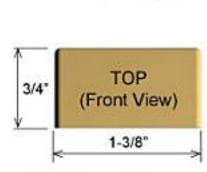
4. AXLE MAKE 2 2-1/4" X 3/8" DIA. DOWEL

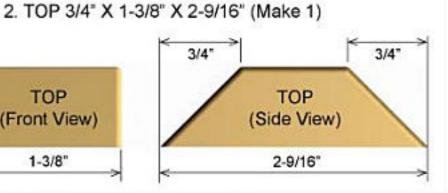
5. HUBCAP MAKE 4 1/8" X 1" DIA. DOWEL

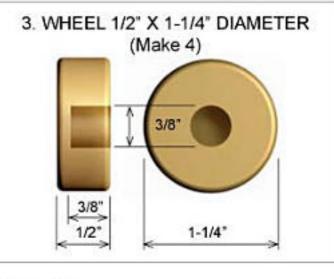
NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.

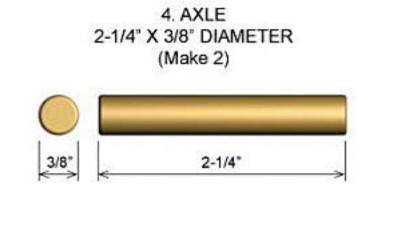
1. CHASSIS 1-1/2" X 1-1/2" X 4" (Make 1) 7/16" dia. hole thru 2 places 1/8" dia, holes 3/8" dia. holes 1-1/2" 1/4" deep. 1/4" deep. 4 places 2 places to your taste to your taste 3/8" 1" 1" 1-1/2"





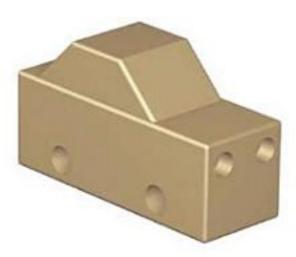




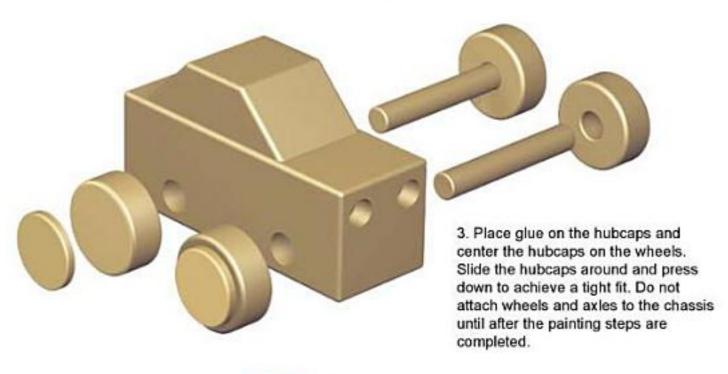




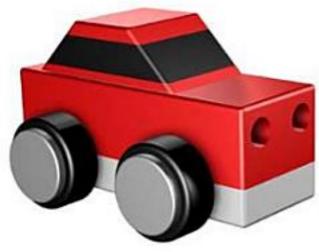
 Round off the edges of the chassis and the top edges of the top slightly as shown above prior to applying the woodworker's glue to the underside of the top. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



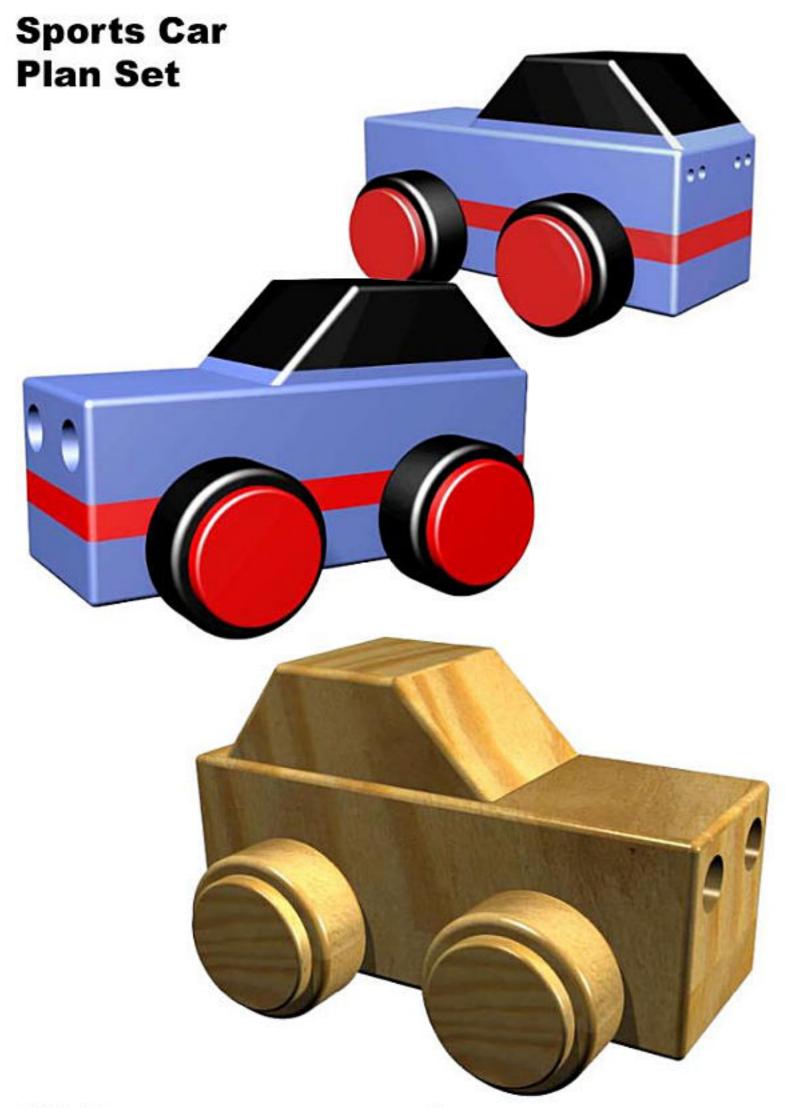
 Press the top down onto the chassis and slide it around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the chassis. The top is slightly narrower than the chassis so be careful to align the sides of the top side to side in the center of the chassis.

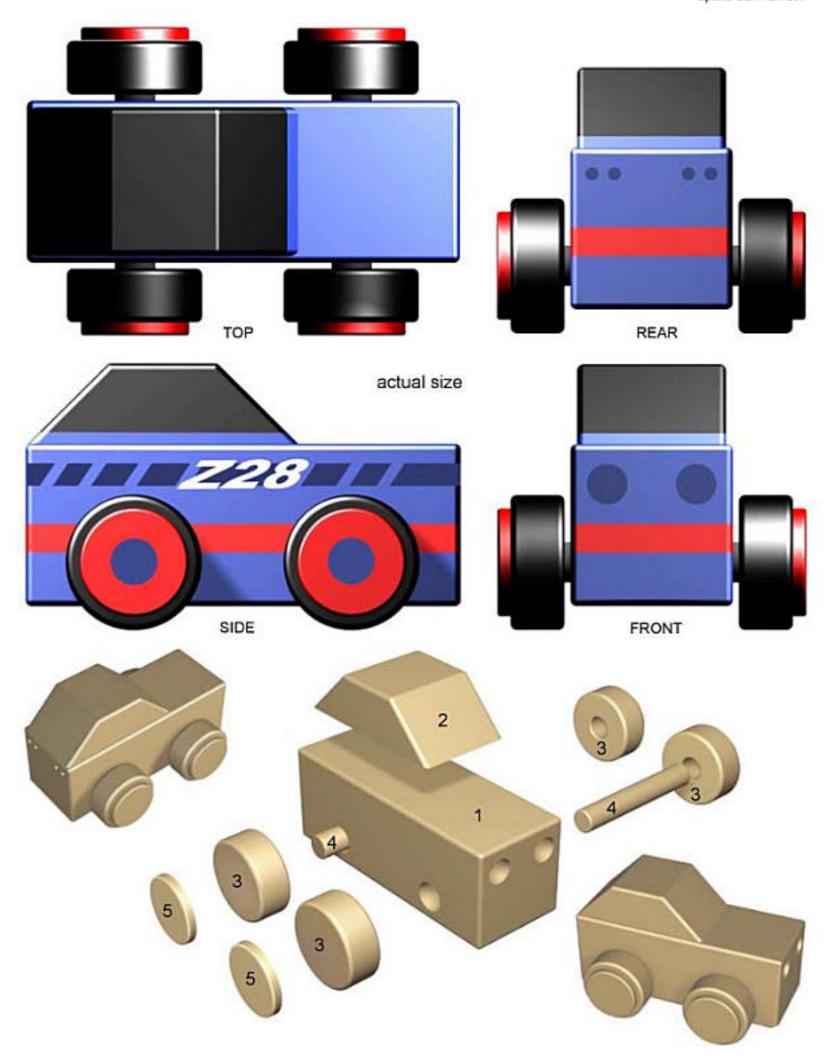


4. Painting the coupe is a lot of fun. It looks great both painted and unpainted but color adds a lot of punch. The coupe can be painted a solid color with the wheels and axles a contrasting solid color. Or the coupe can be painted with multiple colors to create some great looks.



5. The coupe is first painted a solid color. Apply at least 3 coats, sanding between with 200 grit paper. Once dry the contrasting color areas are masked off using painter's trim masking tape for a clean edge after tape is pulled off. Water based enamel is used for all of the colors. The hubcaps are painted with a small artist's brush without masking.







SPORTS CAR PARTS LIST

1. CHASSIS MAKE 1 1-1/2" X 1-1/2" X 4" PINE

2. TOP MAKE 1 3/4" X 1-3/8" X 2-9/16" PINE

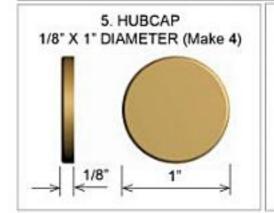
3. WHEEL MAKE 4 1/2" X 1-1/4" DIA. DOWEL

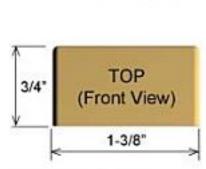
4. AXLE 2-1/4" X 3/8" DIA. MAKE 2 DOWEL

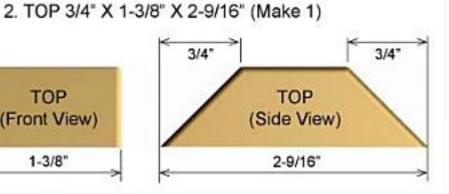
5. HUBCAP MAKE 4 1/8" X 1" DIA. DOWEL

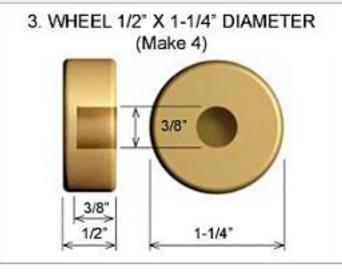
NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.

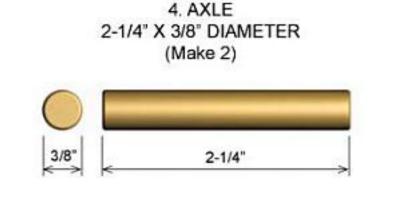
1. CHASSIS 1-1/2" X 1-1/2" X 4" (Make 1) 7/16" dia, hole thru 2 places 1/8" dia, holes 3/8" dia. holes 1-1/2" 1/4" deep. 1/4" deep. 4 places 2 places to your taste to your taste 3/8" 1" 1" 1-1/2"





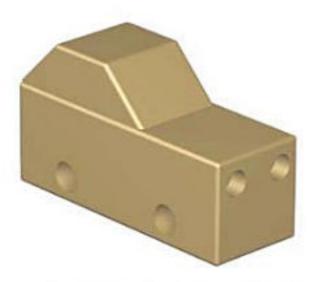






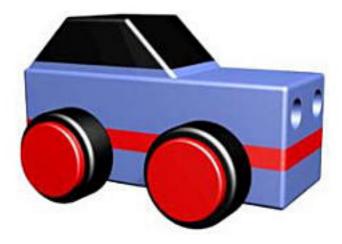


 Round off the edges of the chassis and the top edges of the top slightly as shown above prior to applying the woodworker's glue to the underside of the top. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.

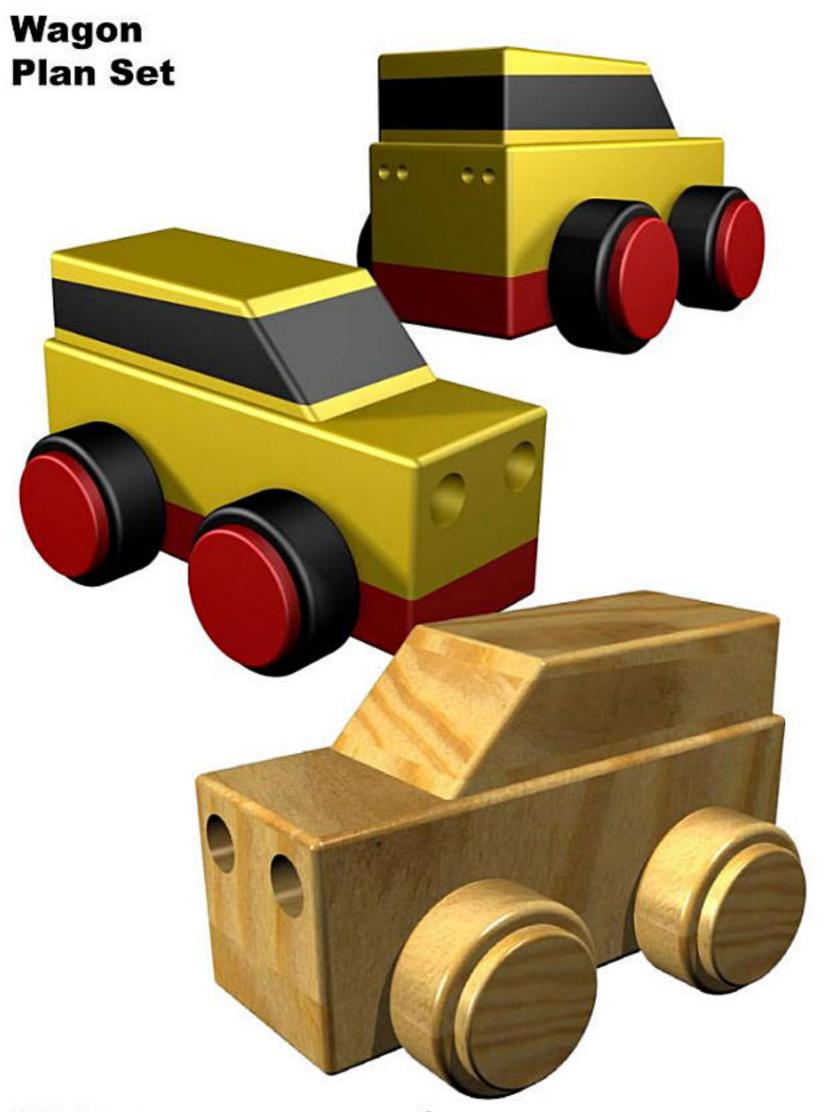


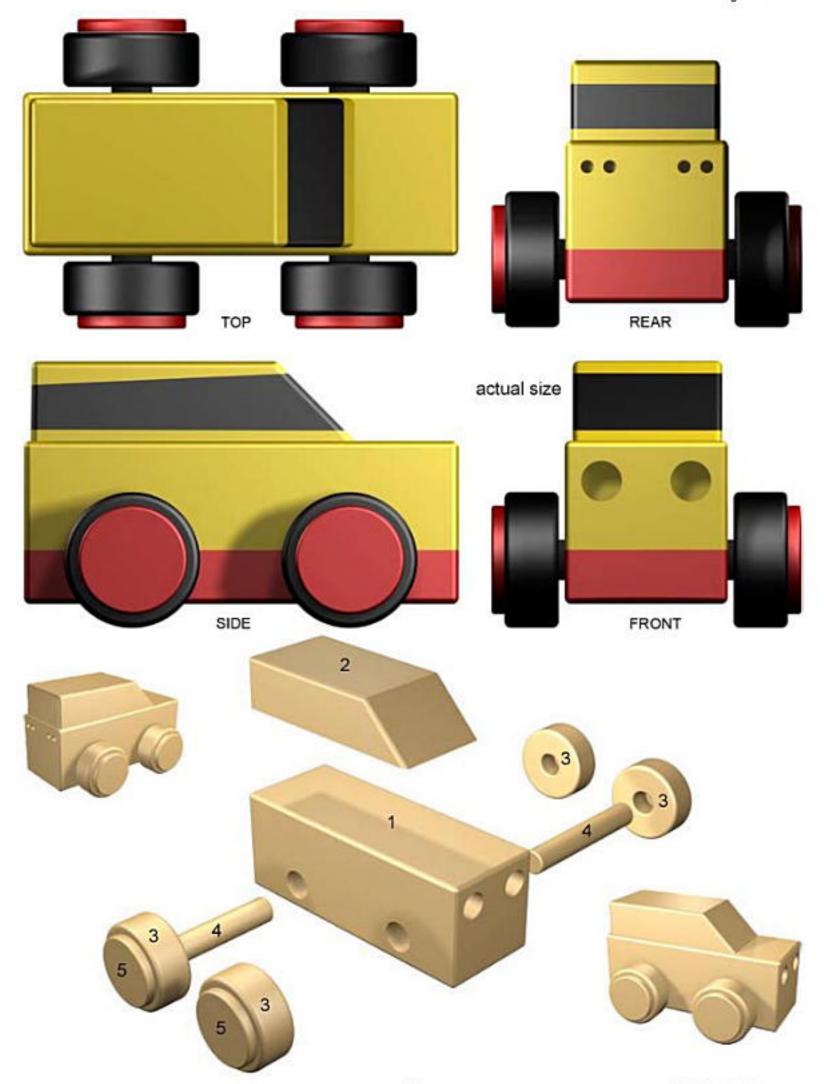
- Press the top down onto the chassis and slide it around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the chassis. The top is slightly narrower than the chassis so be careful to align the sides of the top side to side in the center of the chassis.
- 3. Place glue on the hubcaps and center the hubcaps on the wheels. Slide the hubcaps around and press down to achieve a tight fit.

 Do not attach wheels to axles until after the painting steps are completed.
- 4. The sports car looks great painted and unpainted. Color adds a lot of punch. Paint it a solid color with the wheels a contrasting color. Or it can be painted with multiple colors to create a variety of performance car combos.



5. First paint the sports car a solid color. Apply 3 coats, sanding between with 200 grit paper. Contrasting colors are masked off with painter's trim masking tape for a clean edge. Water based enamel is used for all colors. The hubcaps are painted with an artist's brush.







WAGON PARTS LIST

4	CHACCIC	BAANEA	4 4 10" V 4 4 10" V 4"	DIME
11.	CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 4"	PINE

2. TOP MAKE 1 3/4" X 1-3/8" X 3"

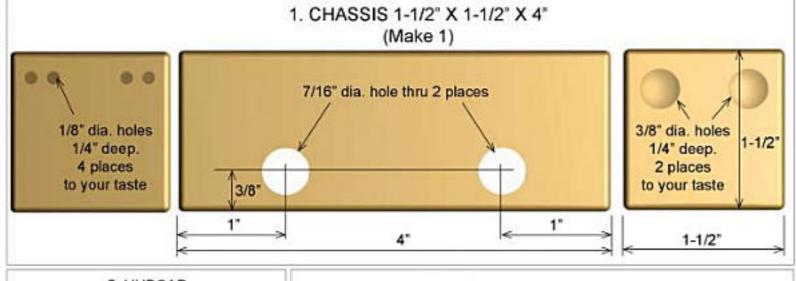
WHEEL MAKE 4 1/2" X 1-1/4" DIA. DOWEL

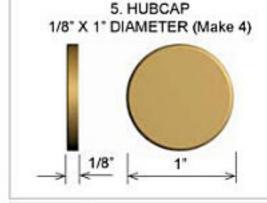
PINE

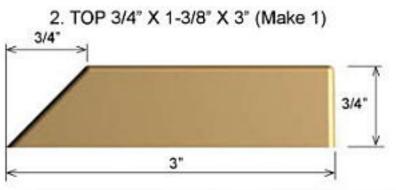
4. AXLE MAKE 2 2-1/4" X 3/8" DIA. DOWEL

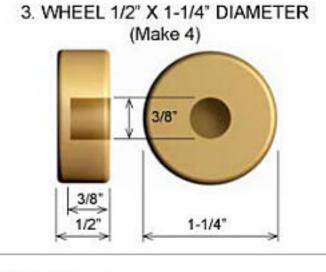
5. HUBCAP MAKE 4 1/8" X 1" DIA. DOWEL

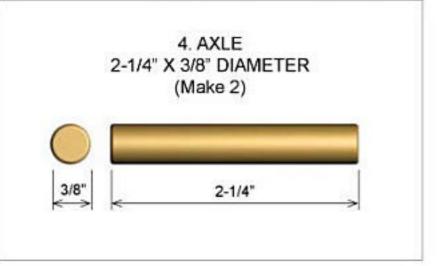
NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.





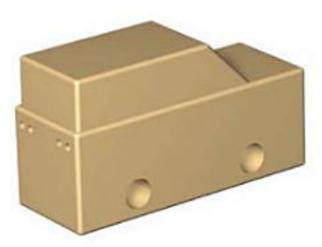




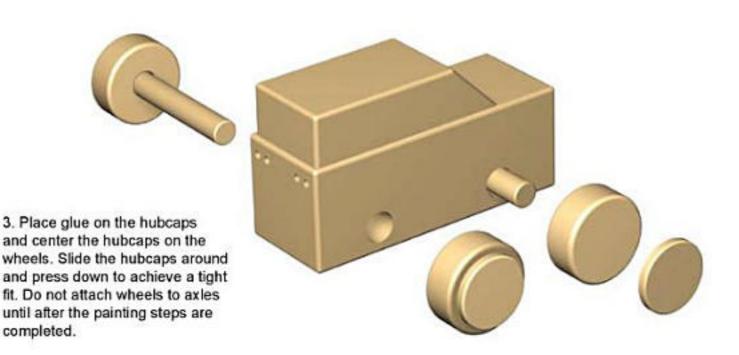




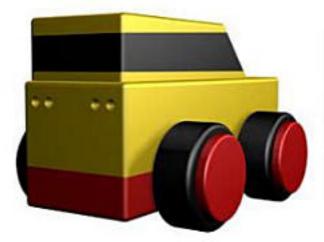
 Round off the edges of the chassis and the top edges of the top slightly as shown above prior to applying the woodworker's glue to the underside of the top. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



2. Press the top down onto the chassis and slide it around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the chassis. The top is slightly narrower than the chassis so be careful to align the sides of the top side to side in the center of the chassis.

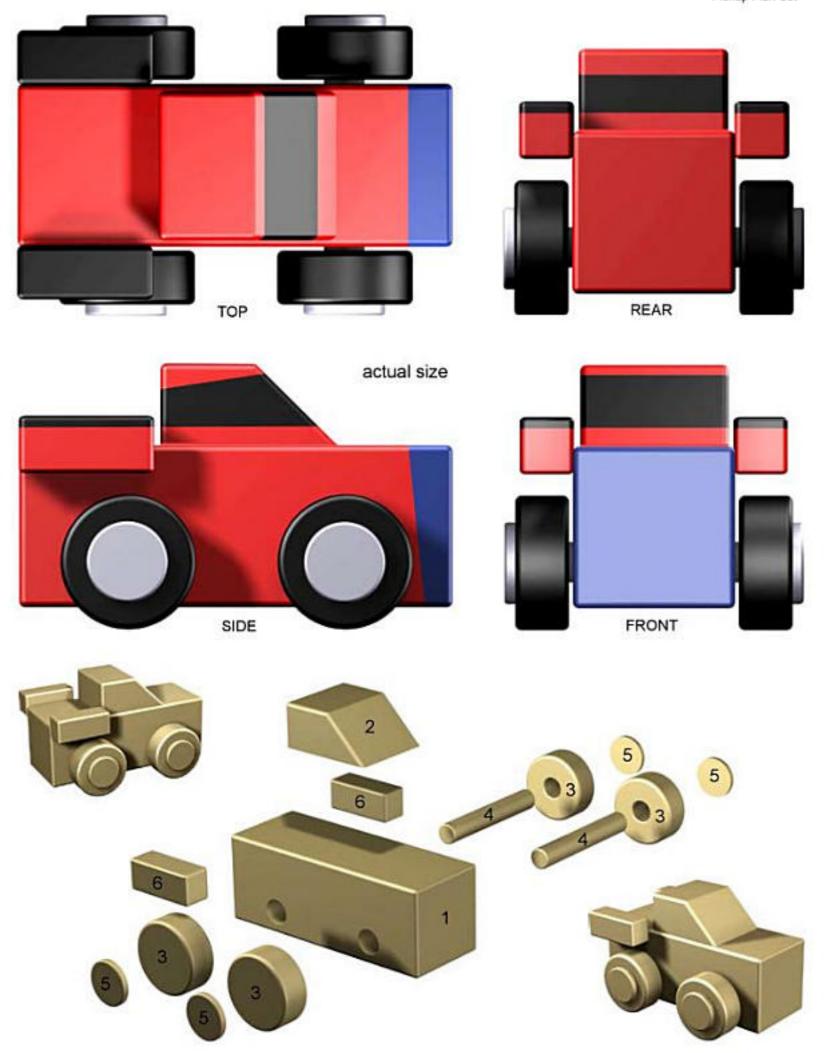


4. The wagon looks great painted and unpainted. Color adds a lot of punch. Paint it a solid color with the wheels a contrasting color. Or it can be painted with multiple colors to create some striking great looks.



 First paint the wagon a solid color. Apply 3 coats, sanding between coats with 200 grit paper. Contrasting colors are masked off with painter's trim masking tape for a clean edge. Water based enamel is used for all colors. The hubcaps are painted with an artist's brush without masking.







NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.

PICKUP PARTS LIST

6. FENDER MAKE 2

1. CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 4"	PINE
2. TOP	MAKE 1	3/4" X 1-3/8" X 1-5/8"	PINE
3. WHEEL	MAKE 4	1/2" X 1-1/4" DIA.	DOWEL
4. AXLE	MAKE 2	2-1/4" X 3/8" DIA.	DOWEL
5. HUBCAP	MAKE 4	1/8" X 1" DIA.	DOWEL

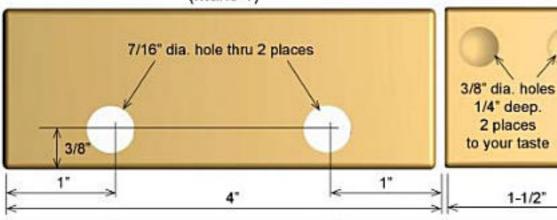
1/2" X 1/2" X 1-1/4"

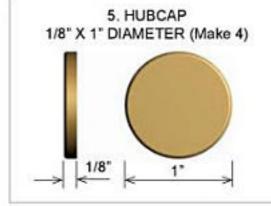
PINE

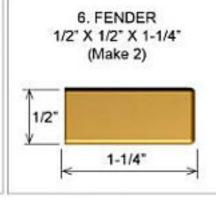
1-1/2

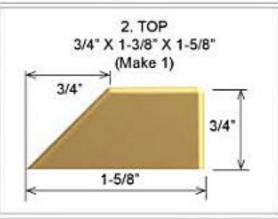




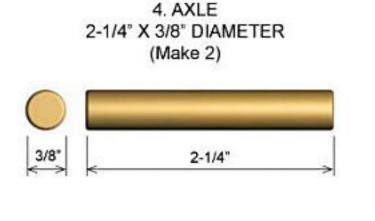




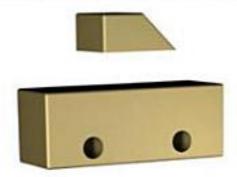




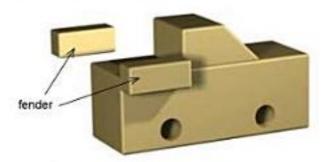
3. WHEEL 1/2" X 1-1/4" DIAMETER (Make 4)



 Round off the edges of the chassis and the top edges of the top slightly as shown below prior to applying the woodworker's glue to the underside of the top. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



2. Press the top down onto the chassis and slide it around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the chassis. The top is slightly narrower than the chassis so be careful to align the sides of the top side to side in the center of the chassis.

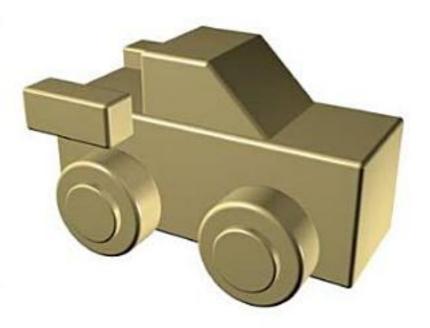


 Apply glue to fenders and press each into place on the chassis sliding each fender slightly to spread the glue evenly. See side view page 14 for exact fender positioning.

Once you feel the glue has a good grip press down firmly to seat each part on the chassis. Add the top to the chassis repeating the same steps.



4. Place glue on the hubcaps and center the hubcaps on the wheels. Slide the hubcap around and press down to achieve a tight fit. Do not fit wheels and axles to the chassis until after the painting steps are completed.

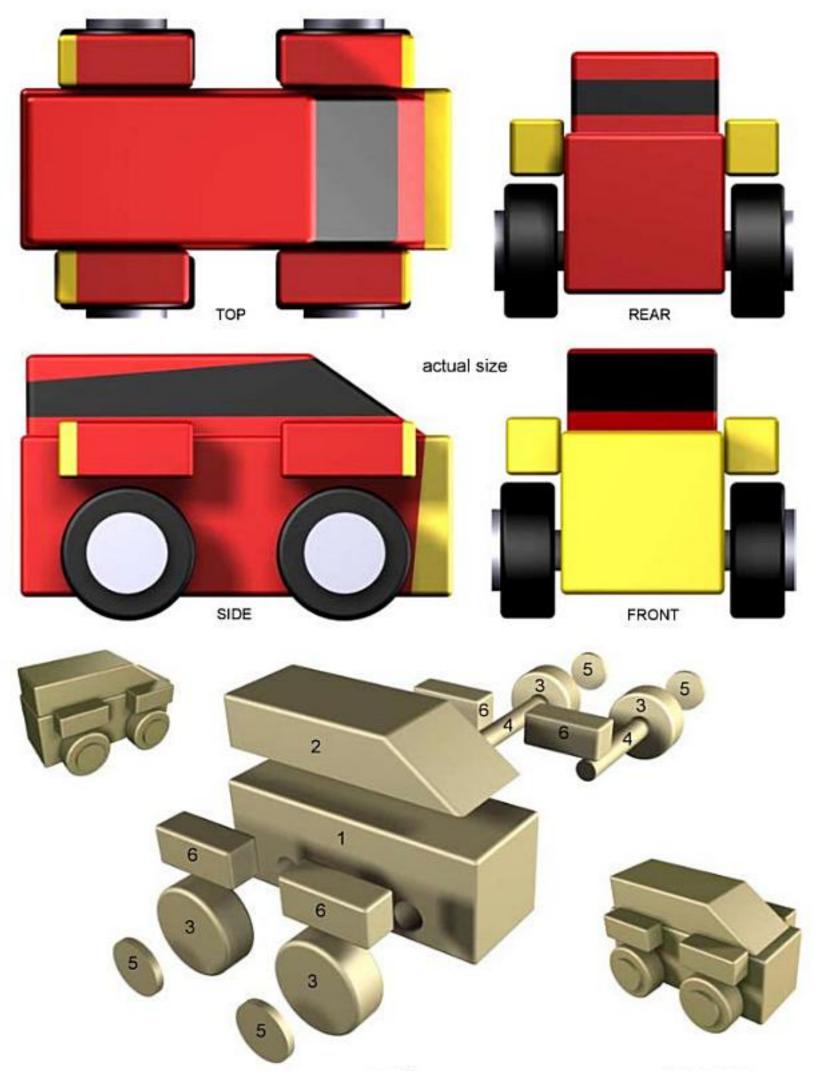


5. Painting the pickup is a lot of fun. It looks great both painted and unpainted but color adds a lot of punch. The pickup can be painted a solid color with the wheels and axles a contrasting solid color. Or the pickup can be painted with multiple colors to create some great looks.



6. The pickup shown is first totally painted a solid color. Apply at least 3 coats, sanding between with 200 grit paper. Once dry the contrasting color areas are masked off using painter's trim masking tape for a clean edge after the tape is pulled off. Water based enamel is used for all of the colors. The hubcaps are painted with a small artist's brush without masking.







NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.

MINIVAN PARTS LIST

1. CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 4"	PINE

2. TOP MAKE 1 3/4" X 1-3/8" X 3-13/16" PINE

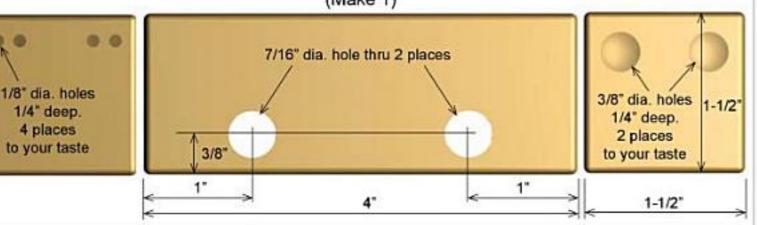
WHEEL MAKE 4 1/2" X 1-1/4" DIA. DOWEL

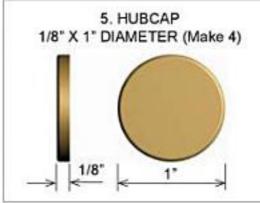
4. AXLE MAKE 2 2-1/4" X 3/8" DIA. DOWEL

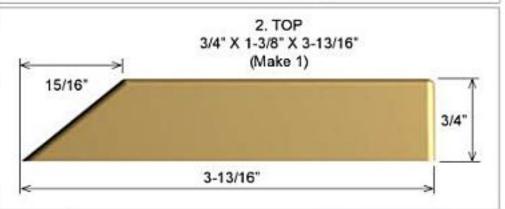
5. HUBCAP MAKE 4 1/8" X 1" DIA. DOWEL

6. FENDER MAKE 4 1/2" X 1/2 X 1-1/4" PINE

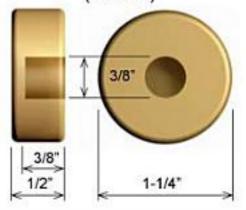
1. CHASSIS 1-1/2" X 1-1/2" X 4" (Make 1)

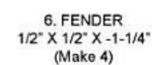


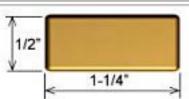




3. WHEEL 1/2" X 1-1/4" DIAMETER (Make 4)







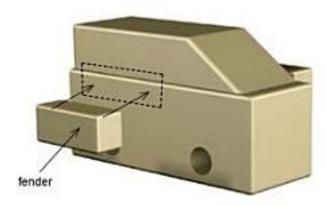
4. AXLE 2-1/4" X 3/8" DIAMETER (Make 2)





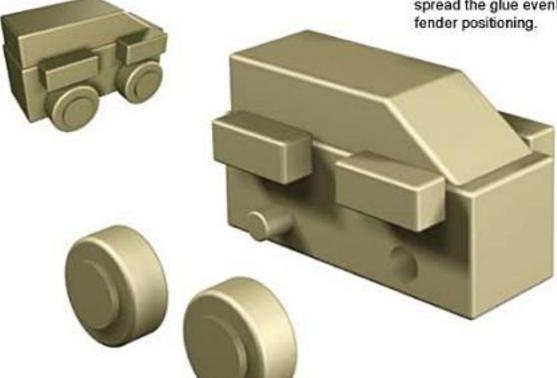
 Round off the edges of the chassis and the top edges of the top slightly as shown above prior to applying the woodworker's glue to the underside of the top.

A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



 Press the top down onto the chassis and slide it around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the chassis. The top is slightly narrower than the chassis so be careful to align the sides of the top side to side in the center of the chassis.

 Apply glue to fenders and press each fender into place on the chassis sliding each fender slightly to spread the glue evenly. See side view on page 18 for fender positioning.





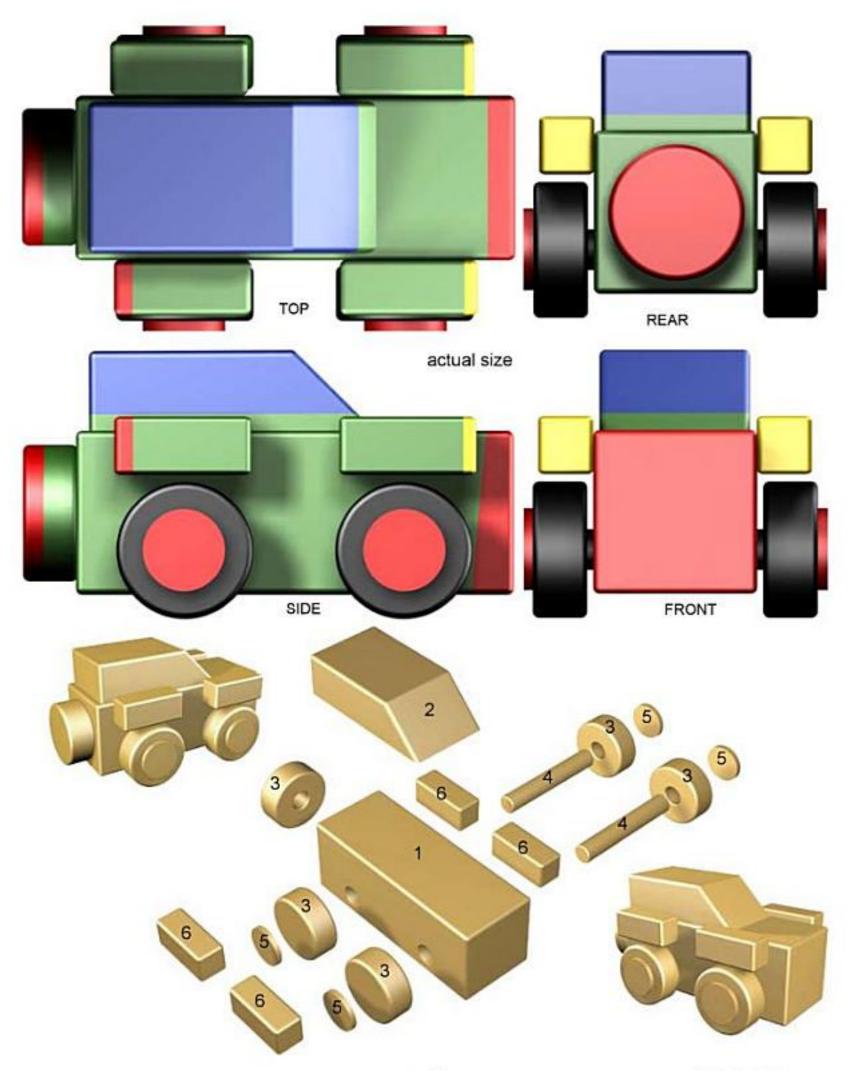
4. Place glue on the hubcaps and center the hubcaps on the wheels. Slide the hubcaps around and press down to achieve a tight fit. Do not attach wheels to axles until after the painting steps are completed.

 The minivan looks great painted and unpainted.
 Color adds a lot of punch.
 Paint it a solid color with the wheels a contrasting color. Or paint the minivan with multiple colors to create your own flower child ride.



6. First paint the minivan a solid color. Apply 3 coats, sanding between with 200 grit paper. Contrasting colors are masked off with painter's trim masking tape for a clean edge. Water based enamel is used for all colors. The hubcaps are painted with an artist's brush.



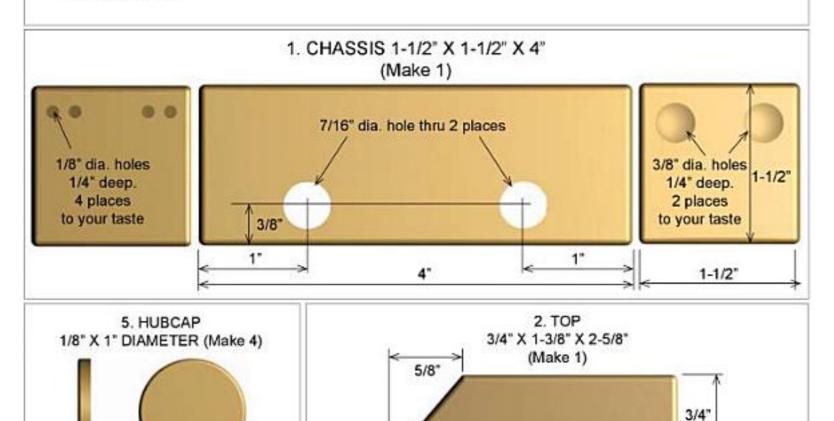


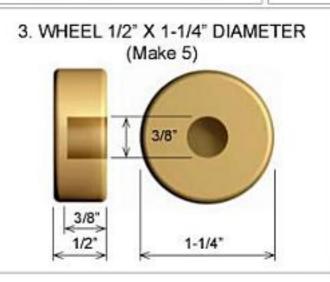


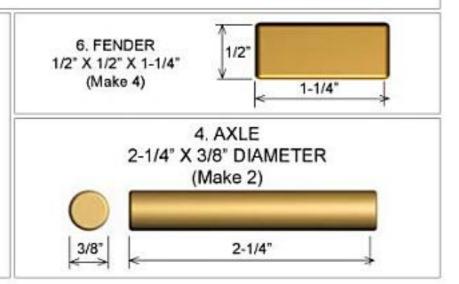
NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.

SUV PARTS LIST

1. CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 4"	PINE
2. TOP	MAKE 1	3/4" X 1-3/8" X 2-5/8"	PINE
3. WHEEL	MAKE 5	1/2" X 1-1/4" DIA.	DOWEL
4. AXLE	MAKE 2	2-1/4" X 3/8" DIA.	DOWEL
5. HUBCAP	MAKE 4	1/8" X 1" DIA.	DOWEL
6. FENDER	MAKE 4	1/2" X 1/2" X 1-1/4"	PINE

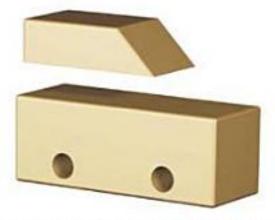




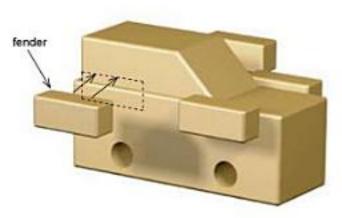


2-5/8"

1/8"

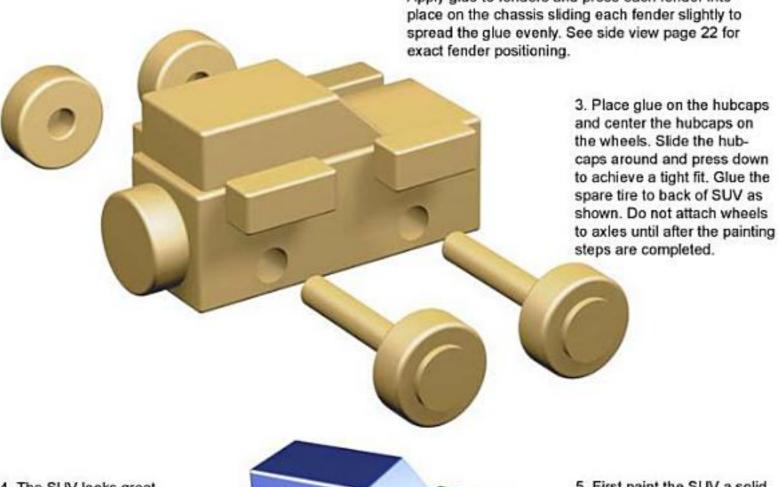


 Round off the edges of the chassis and the top edges of the top slightly as shown above prior to applying the woodworker's glue to the underside of the top. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



2. Press the top down onto the chassis and slide it around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the chassis. The top is slightly narrower than the chassis so be careful to align the sides of the top side to side in the center of the chassis.

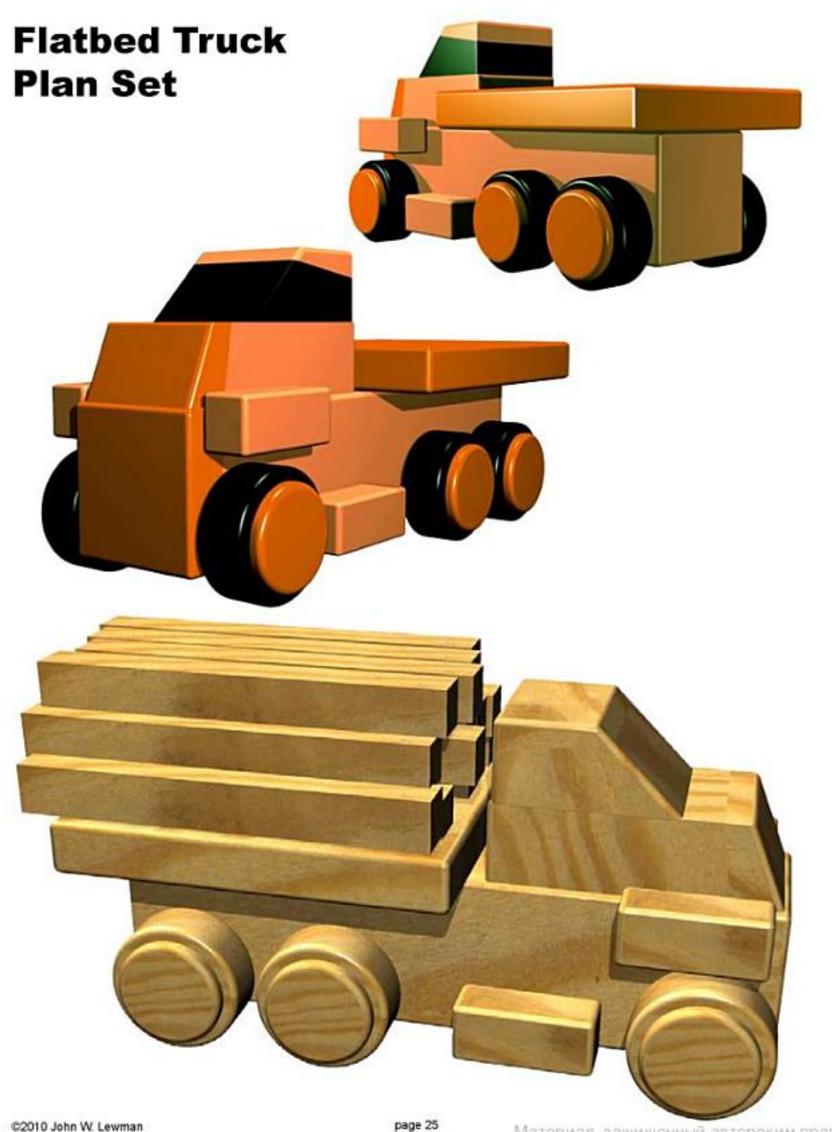
Apply glue to fenders and press each fender into exact fender positioning.



4. The SUV looks great painted and unpainted. Color adds a lot of punch. Paint it a solid color with the wheels a contrasting color. Or it can be painted with multiple colors to create interesting patterns and combinations.

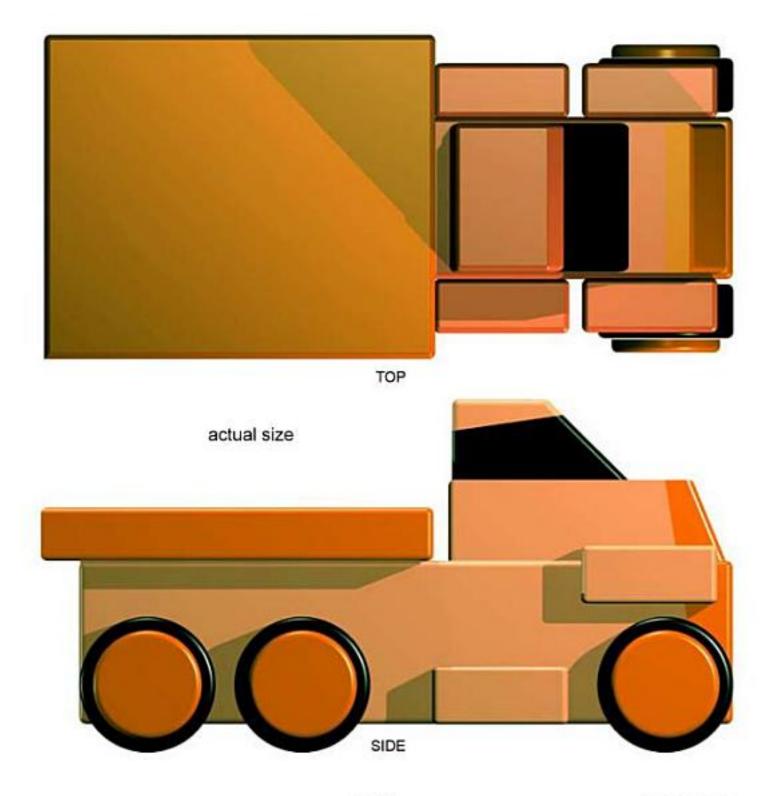


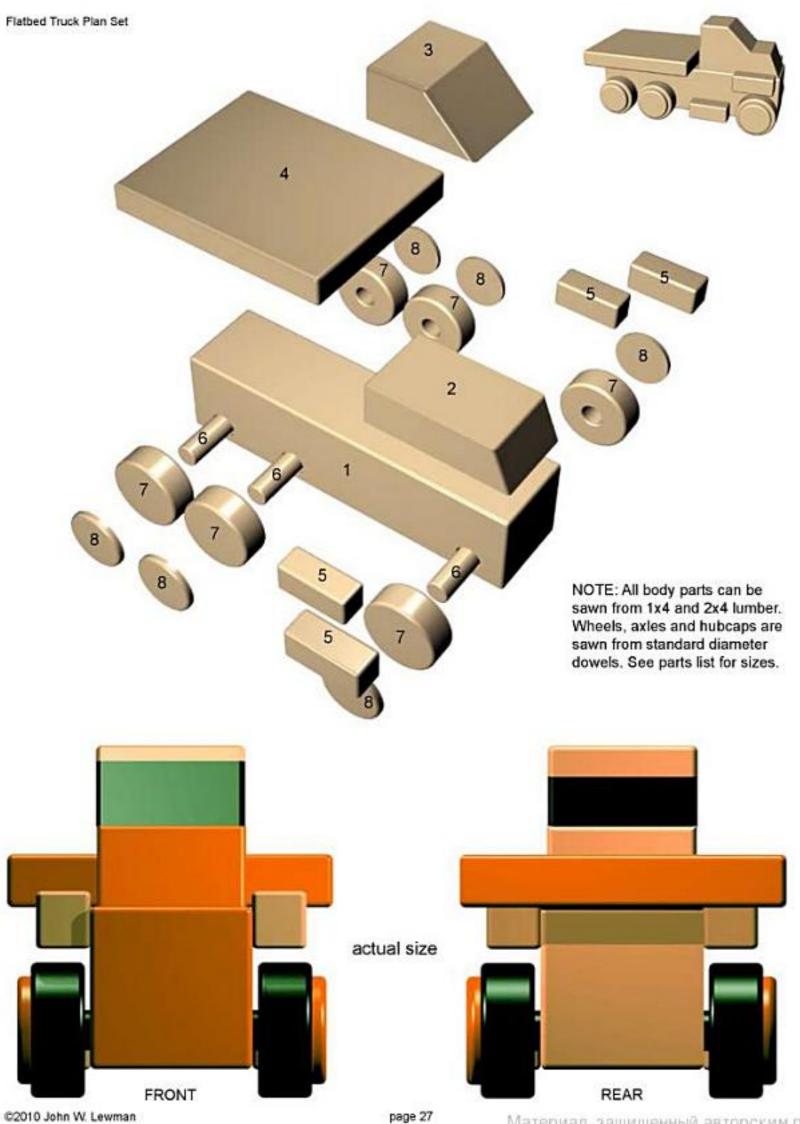
First paint the SUV a solid color. Apply 3 coats, sanding between with 200 grit paper. Contrasting colors are masked off with painter's trim masking tape for a clean edge. Water based enamel is used for all colors. The hubcaps are painted with an artist's brush.

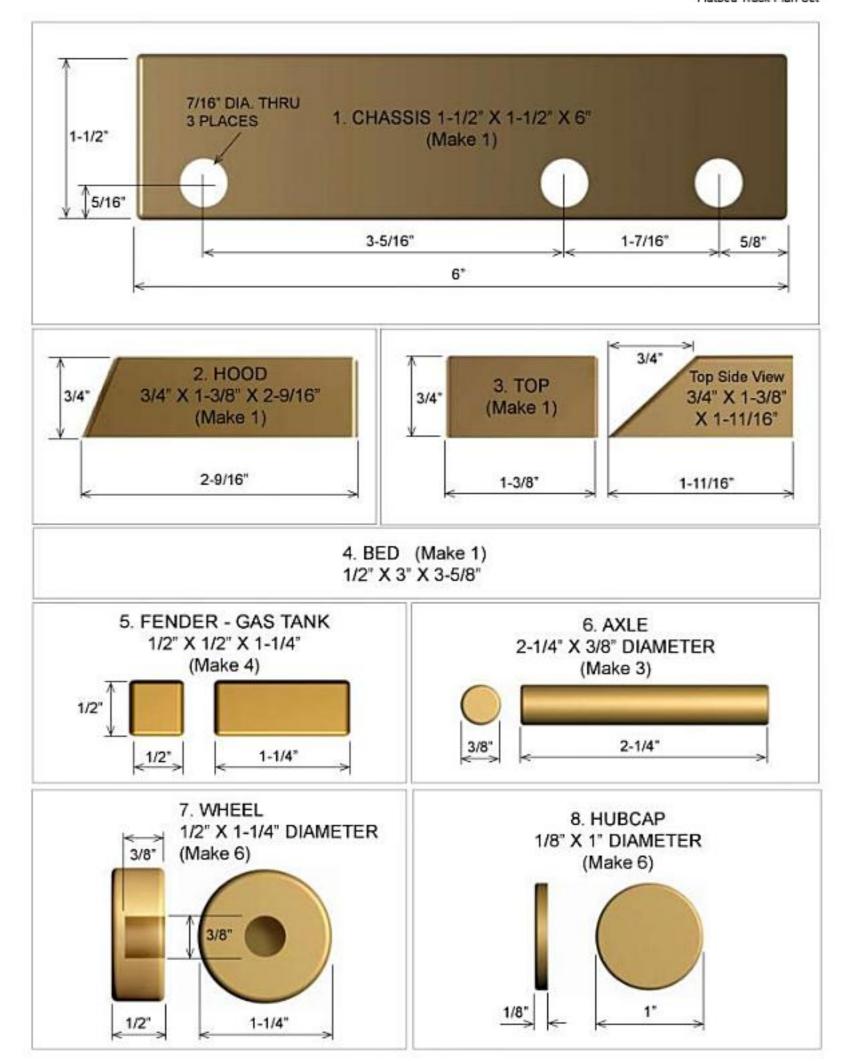


FL	ATBED TRU	CK PARTS L	IST	
1.	CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 6"	PINE
2.	HOOD	MAKE 1	3/4" X 1-3/8" X 2-9/16"	PINE
3.	TOP	MAKE 1	3/4" X 1-3/8" X 1-11/16"	PINE
4.	BED	MAKE 1	1/2" X 3" X 3-5/8"	PINE
5.	FEN-TANK	MAKE 4	1/2" X 1/2" X 1-1/4"	PINE
6.	AXLE	MAKE 3	2-1/4" X 3/8" DIAMETER	DOWEL
7.	WHEEL	MAKE 6	1/2" X 1-1/4" DIAMETER	DOWEL
8.	HUBCAP	MAKE 6	1/8" X 1" DIAMETER	DOWEL

NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.



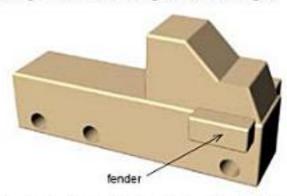




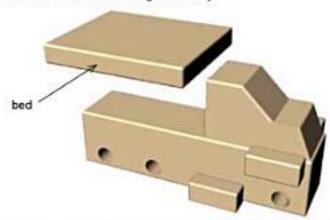
Flatbed Truck Plan Set



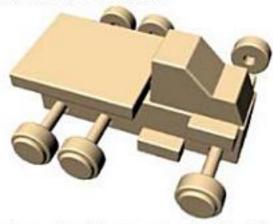
 Round off the edges of the chassis and the front edges of the hood as shown above prior to applying the woodworker's glue to the underside of the hood. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



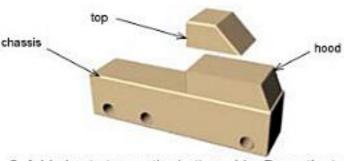
Apply glue to the contact surface of the fenders and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



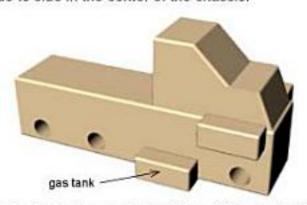
Apply glue to the chassis where the bed is attached.Press the bed firmly against the chassis and move it back and forth to spread the glue.



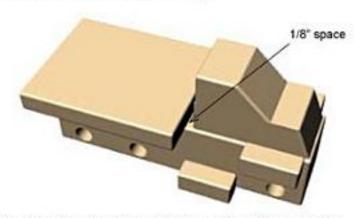
 Place glue on the hubcaps and center the hubcaps on wheels. Slide the hubcaps around and press down to achieve a tight fit. Add glue to 3 wheel holes and insert 3 axles.



 Add glue to top on the bottom side. Press the top down and slide it around to spread the glue evenly.
 Press down on the top to seat it against the hood. The top and hood are slightly narrower than the chassis and fit side to side in the center of the chassis.



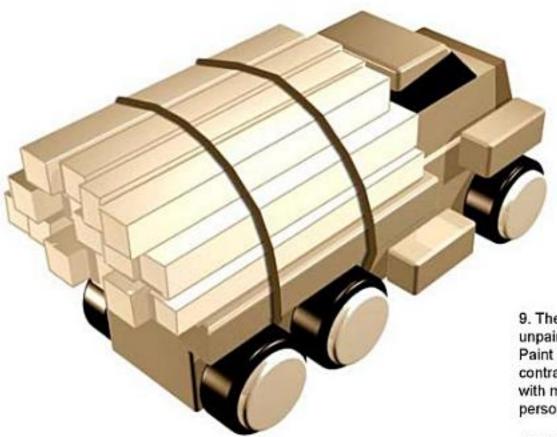
 Apply glue to the contact surface of the gas tanks and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



The truck bed is aligned in the center of the chassis left to right. Leave an 1/8" space between the cab and the bed as shown in the side view on page 26.

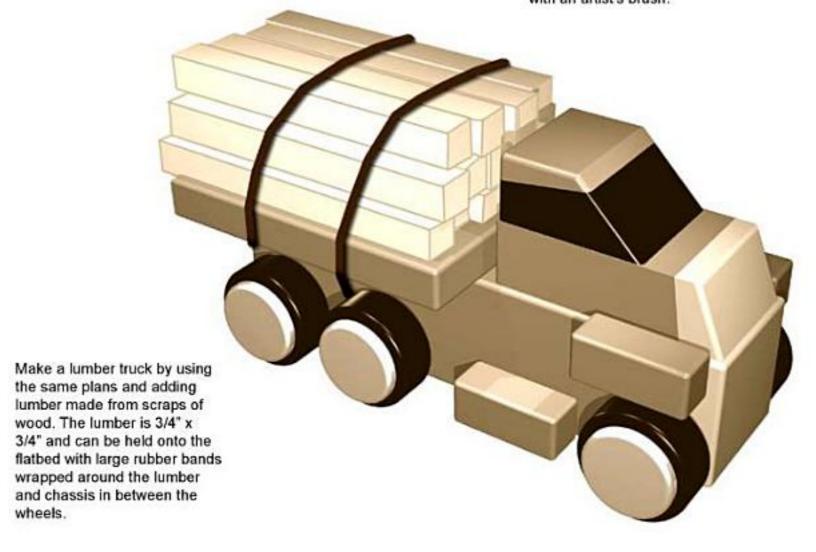


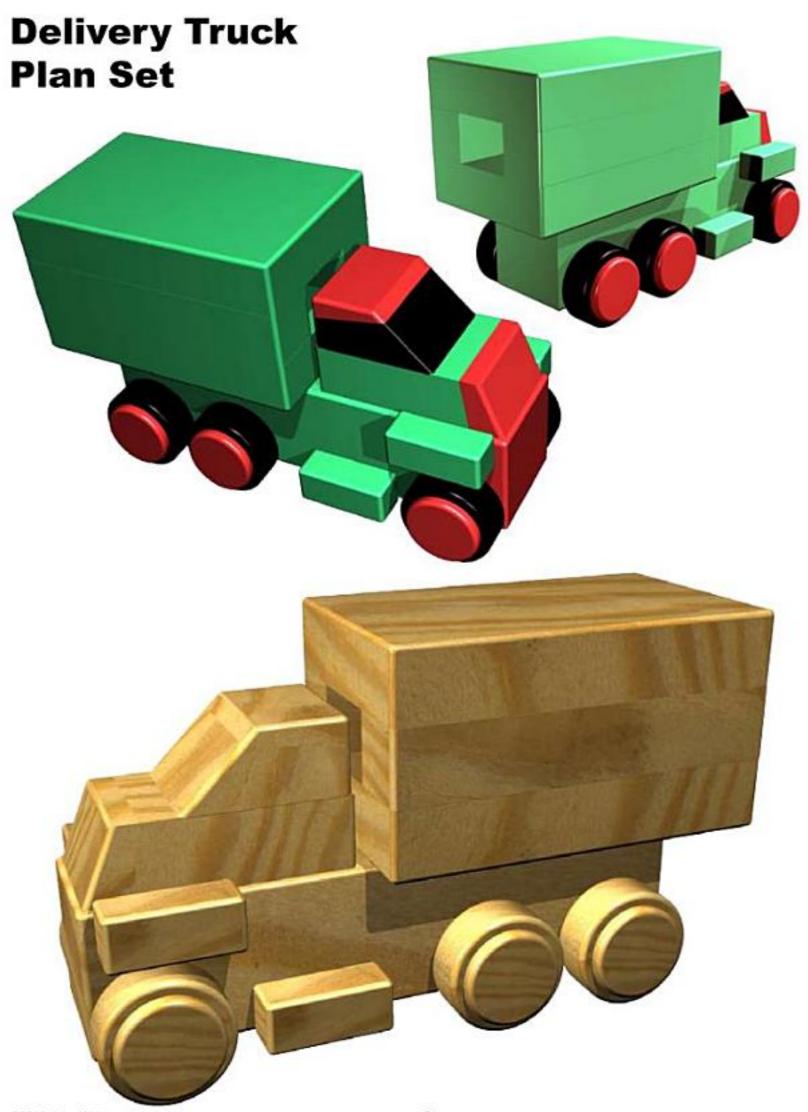
Insert the 3 axle/wheel assemblies into the chassis.Add glue to the wheel holes of the 3 remaining wheels and press the wheels onto the axle ends.



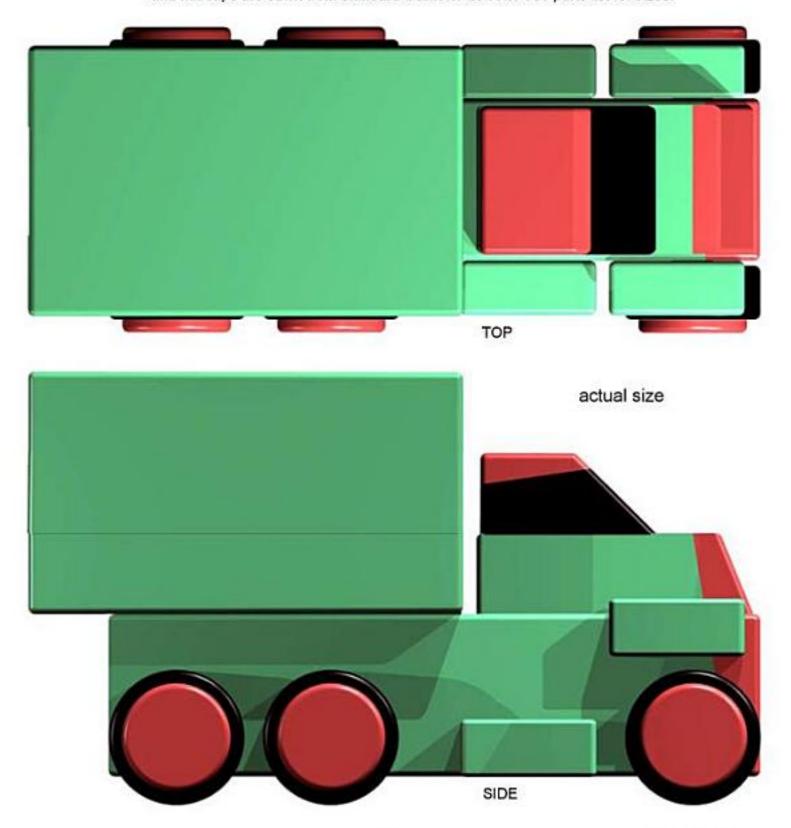
Logs can also be made from small branches and twigs for a naturally fun logging truck. The flatbed looks great painted and unpainted. Color adds a lot of punch.
 Paint it a solid color with the wheels a contrasting color. Or it can be painted with multiple colors to create your own personal look.

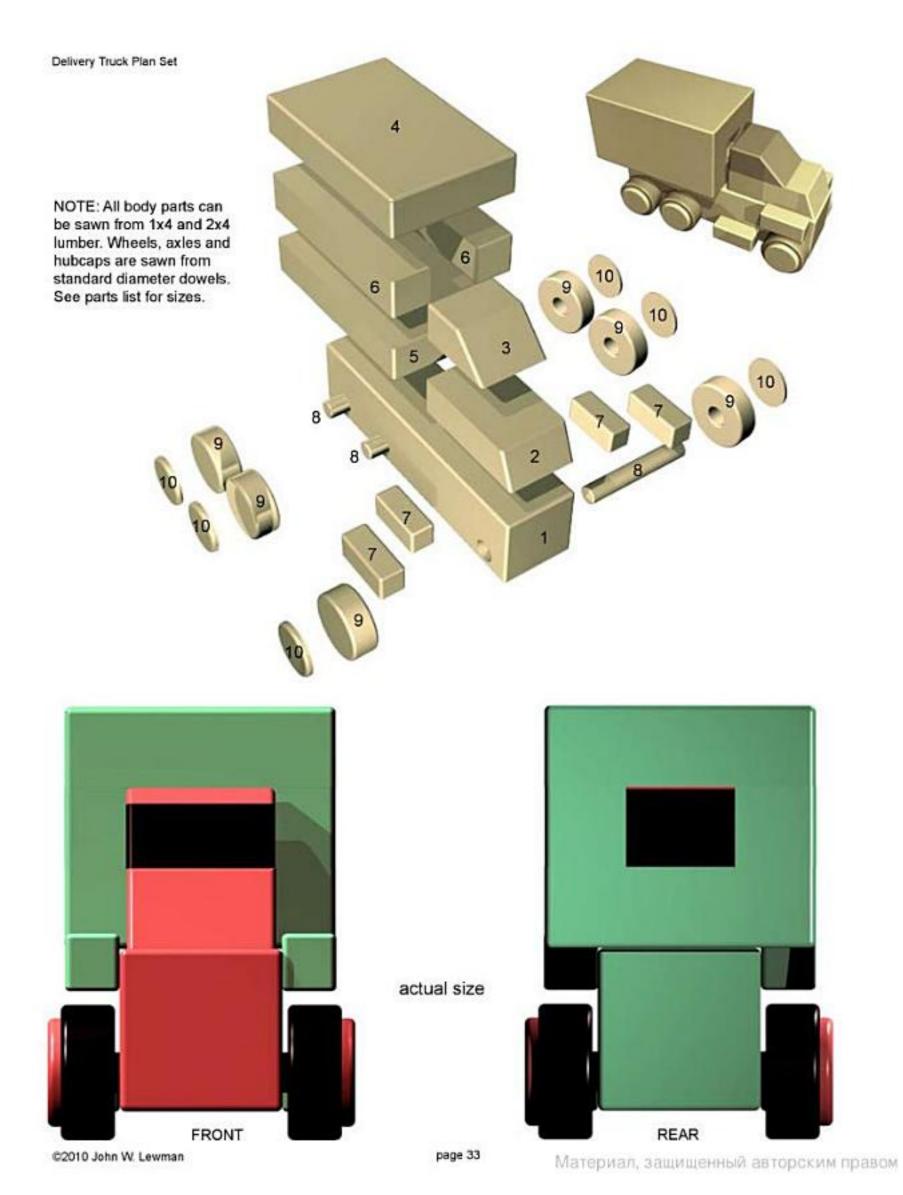
10. Paint the flatbed using water based enamels. First apply 3 coats, sanding between with 200 grit paper. Then add trim. Use painter's trim masking tape for a clean edge. The hubcaps are painted with an artist's brush.

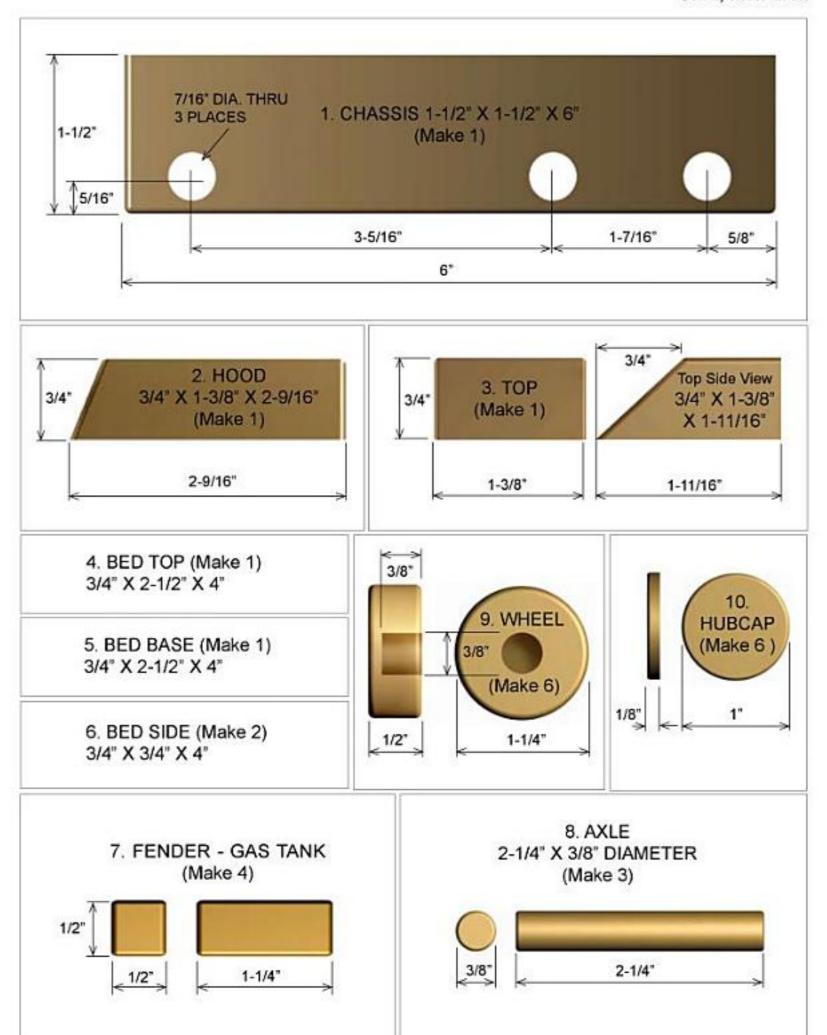




4	CHACCIC	MANUE 4	1 10" V 1 10" V C"	DINE
1.	CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 6"	PINE
2.	HOOD	MAKE 1	3/4" X 1-3/8" X 2-9/16"	PINE
3.	TOP	MAKE 1	3/4" X 1-3/8" X 1-11/16"	PINE
4.	BED TOP	MAKE 1	3/4" X 2-1/2" X 4"	PINE
5.	BED BASE	MAKE 1	3/4" X 2-1/2" X 4"	PINE
6.	BED SIDE	MAKE 2	3/4" X 3/4" X 4"	PINE
7.	FEN-TANK	MAKE 4	1/2" X 1/2" X 1-1/4"	PINE
8.	AXLE	MAKE 3	2-1/4" X 3/8" DIAMETER	DOWEL
9.	WHEEL	MAKE 6	1/2" X 1-1/4" DIAMETER	DOWEL
10.	HUBCAP	MAKE 6	1/8" X 1" DIAMETER	DOWEL



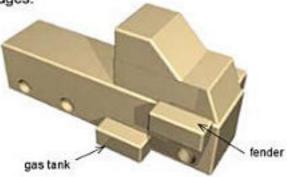




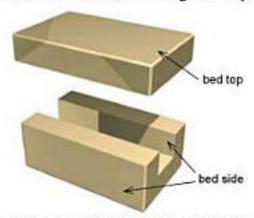
Delivery Truck Plan Set



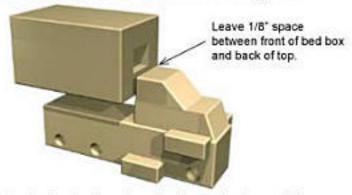
 Round off the edges of the chassis and the front edges of the hood slightly as shown above prior to applying the woodworker's glue to the underside of the hood. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



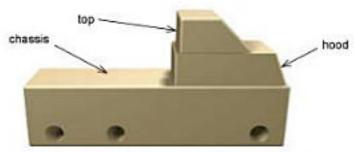
Apply glue to the contact surface of the fenders and the gas tanks and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



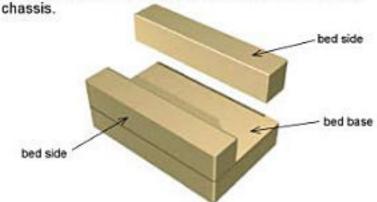
Place glue on the top of the bed sides. Slide the bed top around to spread glue evenly. Line up bed top with bed sides and press down to achieve a tight fit.



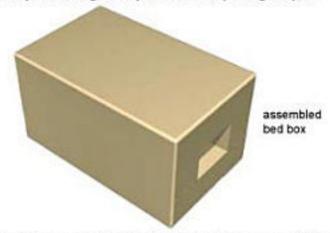
7. Apply glue to the chassis where the box will be attached. Press the box firmly against the chassis and move it back and forth to spread the glue. Align box on the middle of the chassis with an 1/8" space between it and the top as shown in side view on page 32.



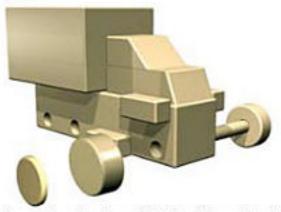
2. Add glue to the hood and top on the bottom side. Press the hood and top down and slide it around to spread the glue evenly. Press down on the top to seat it against the hood. The top and hood are slightly narrower than the chassis and fit side to side in the center of the



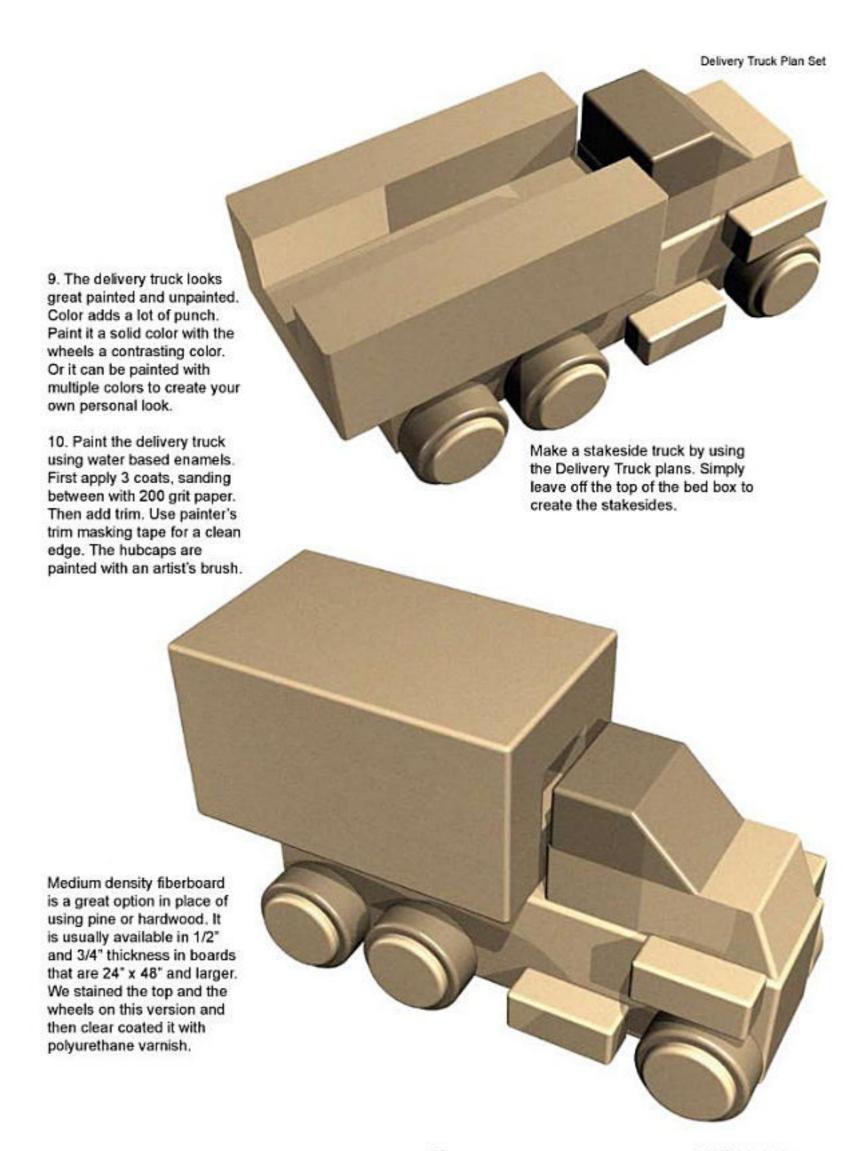
Glue and press the bed base and bed sides together evenly. Let the glue dry before completing step 5.

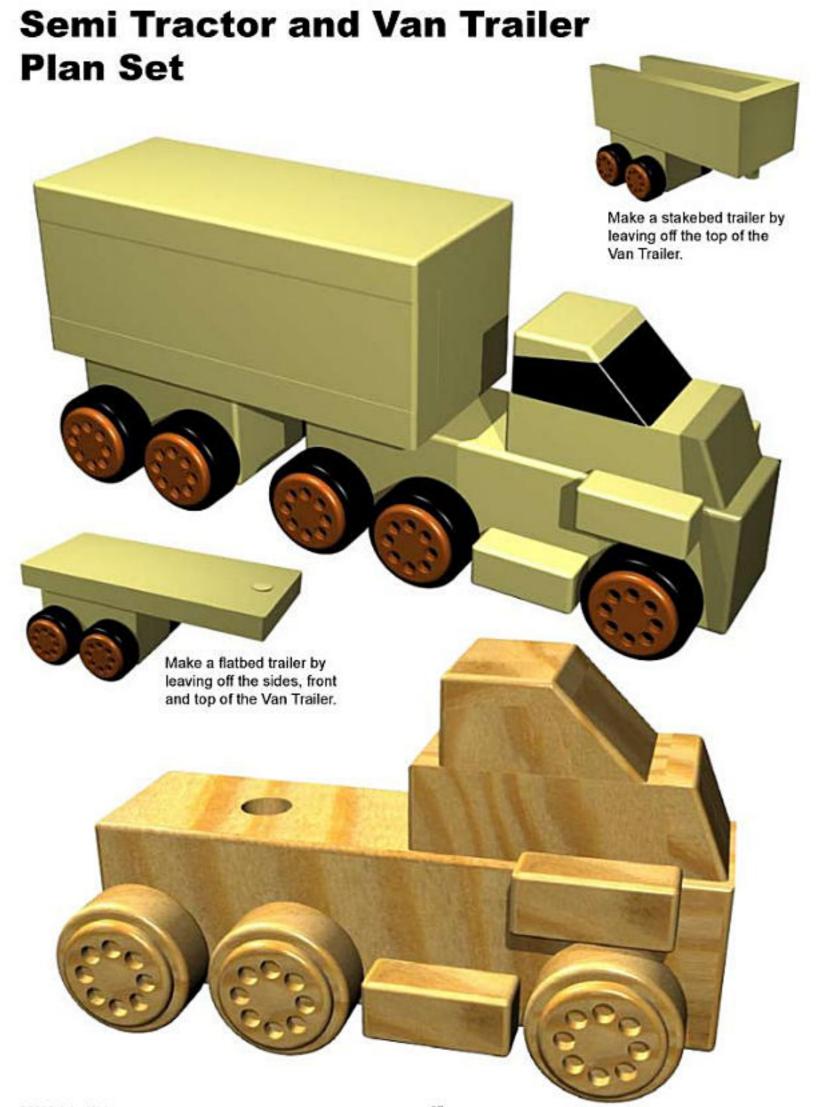


Let the assembled bed box dry before completing steps 7 and 8.



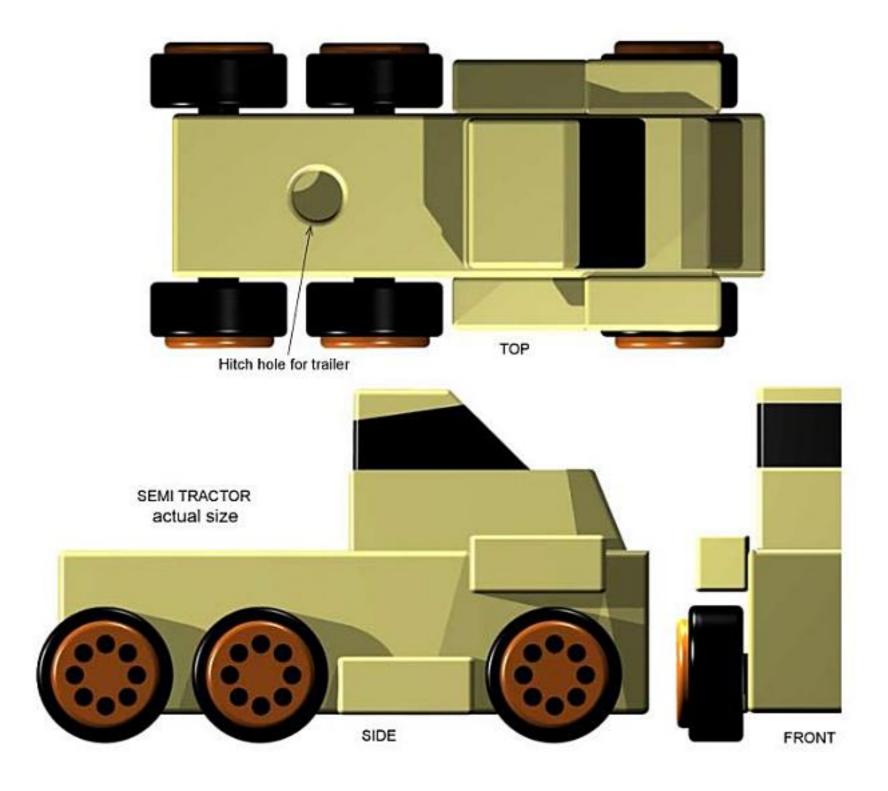
8. Add hubcaps to wheels and let dry. Place glue in 3 wheel holes and insert axles tightly. You may need to tap the axles into the wheels with light blows from a hammer. Add glue to final 3 wheels and tap onto axles. Let wheels dry completely onto the axles before play.



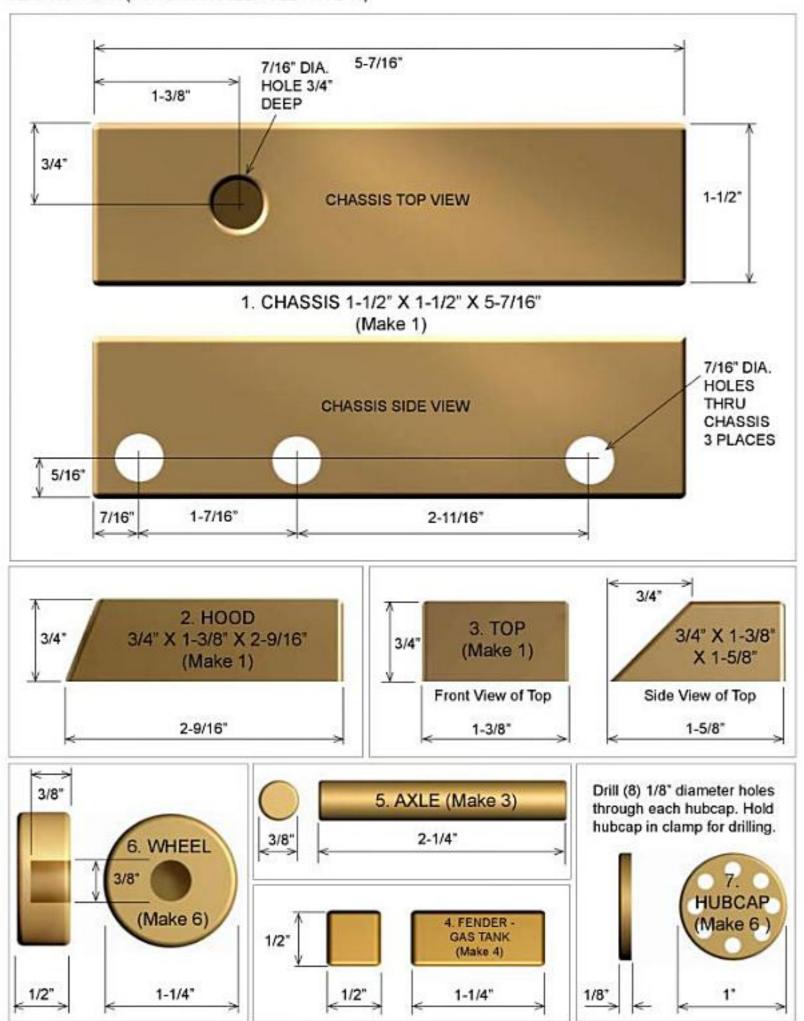


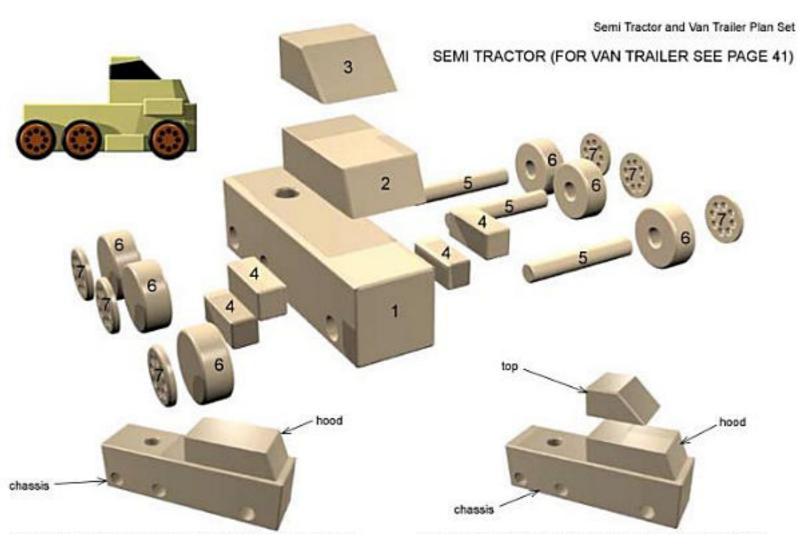
SEMI TRACTOR PARTS LIST (FOR VAN TRAILER SEE PAGE 41)

1.	CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 5-7/16"	PINE
2.	HOOD	MAKE 1	3/4" X 1-3/8" X 2-9/16"	PINE
3.	TOP	MAKE 1	3/4" X 1-3/8" X 1-5/8"	PINE
4.	FEN-TANK	MAKE 4	1/2" X 1/2" X 1-1/4"	PINE
5.	AXLE	MAKE 3	2-1/4" X 3/8" DIAMETER	DOWEL
6.	WHEEL	MAKE 6	1/2" X 1-1/4" DIAMETER	DOWEL
7.	HUBCAP	MAKE 6	1/8" X 1" DIAMETER	DOWEL

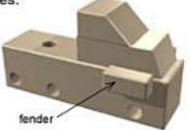


SEMI TRACTOR (FOR VAN TRAILER SEE PAGE 41)

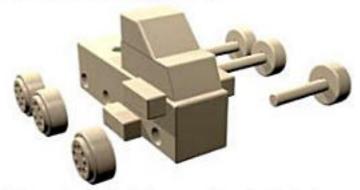




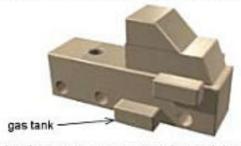
 Round off the edges of the chassis and the front edges of the hood slightly as shown above prior to applying the woodworker's glue to the underside of the hood. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



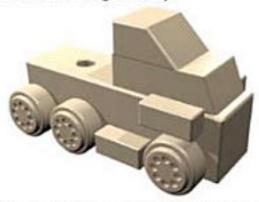
Apply glue to the contact surface of the fenders and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



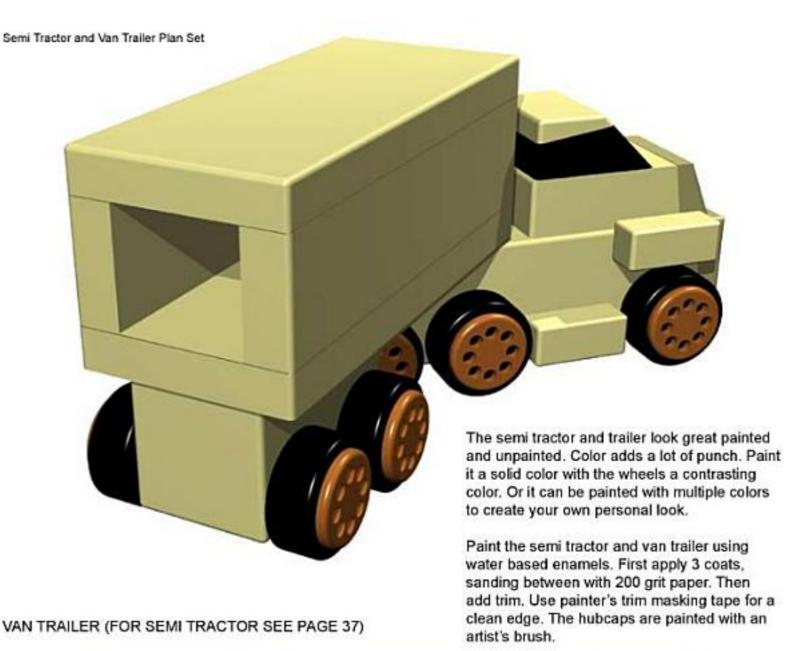
Place glue on the hubcaps and center the hubcaps on the wheels. Slide around and press down to achieve a tight fit. Add glue to 3 wheel holes and insert 3 axles. Add glue to the top on the bottom side. Press the top down and slide it around to spread the glue evenly.
 Press down on the top to seat it against the hood. The top and hood are slightly narrower than the chassis and fit side to side in the center of the chassis.

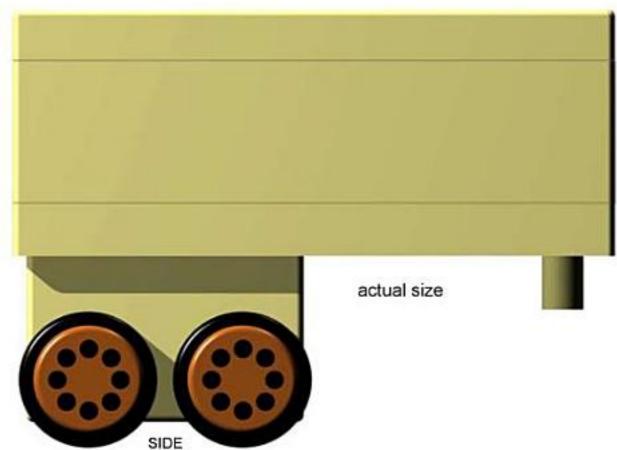


 Apply glue to the contact surface of the gas tanks and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



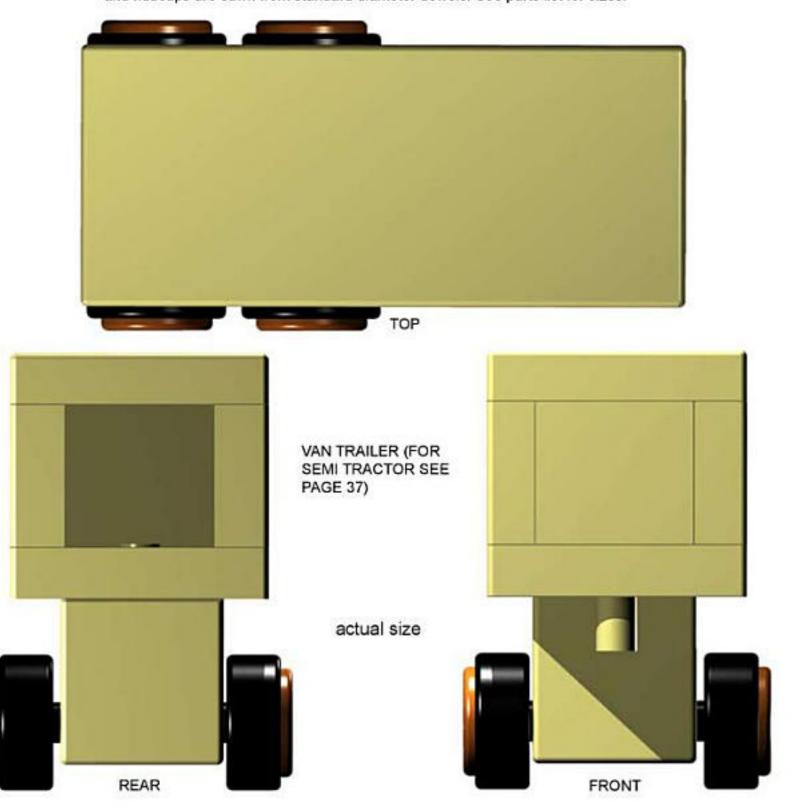
Insert the 3 axle/wheel assemblies into the chassis.Add glue to the wheel holes of the 3 remaining wheels and press the wheels onto the axle ends.

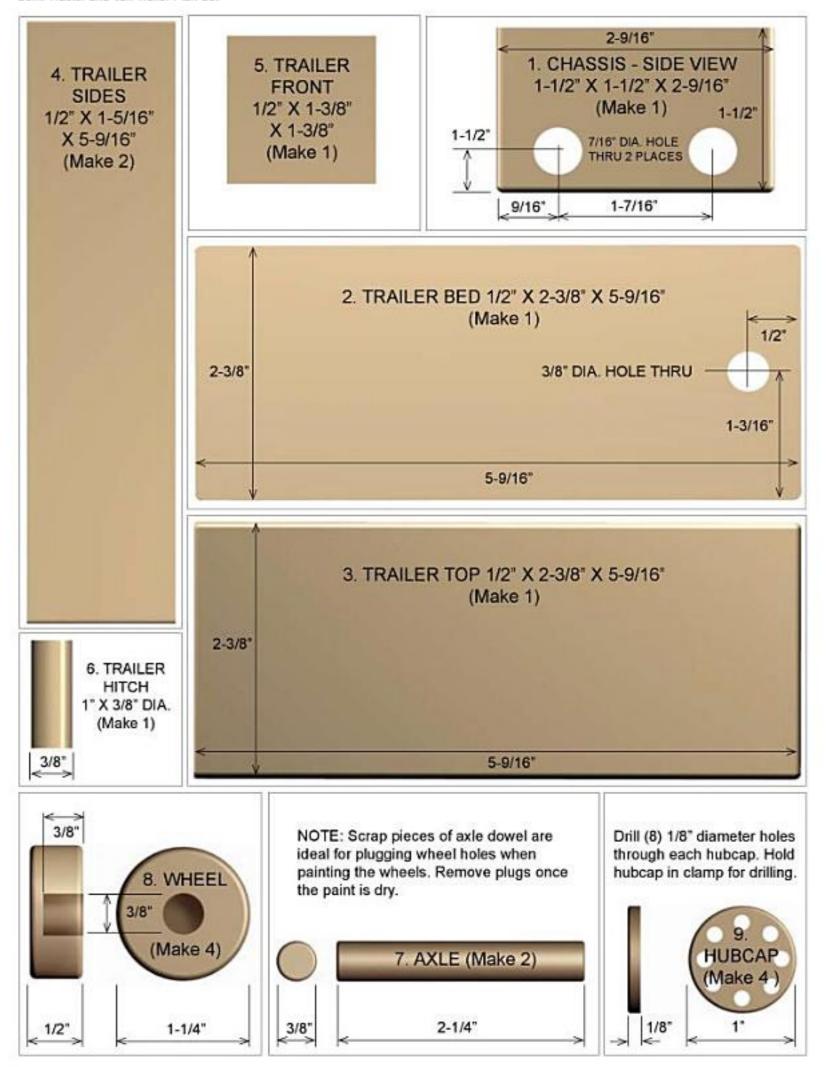




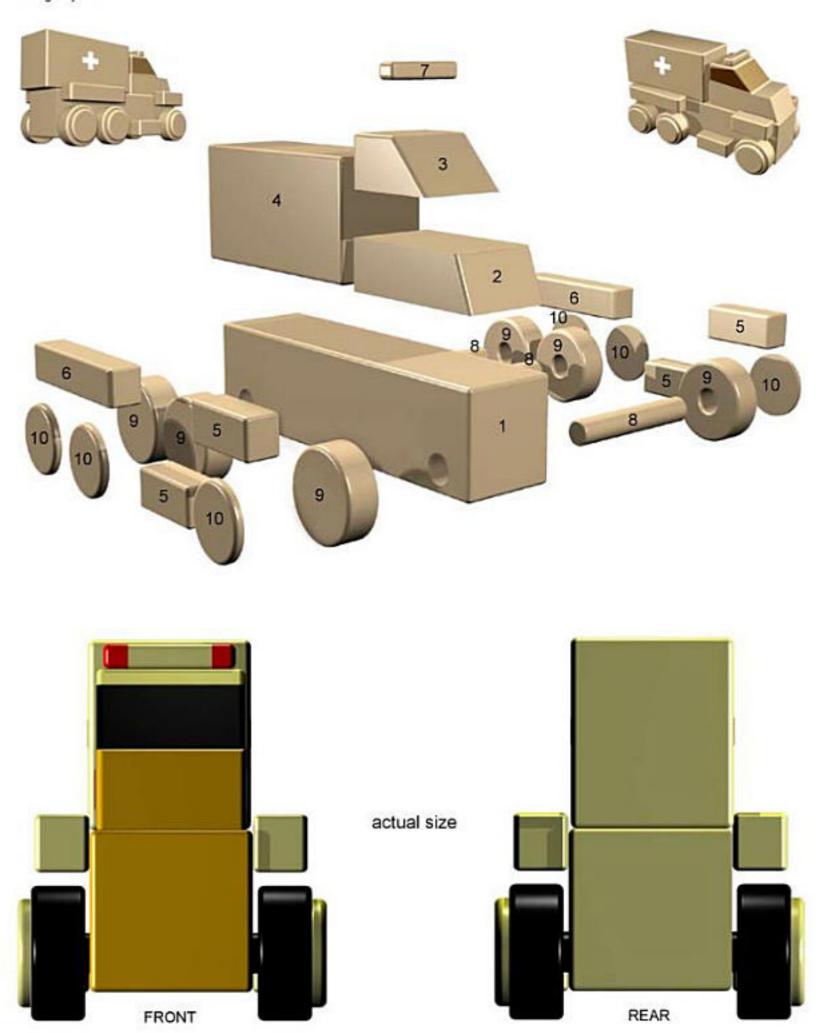
VAN TRAILER PARTS LIST (FOR SEMI TRACTOR SEE PAGE 37)

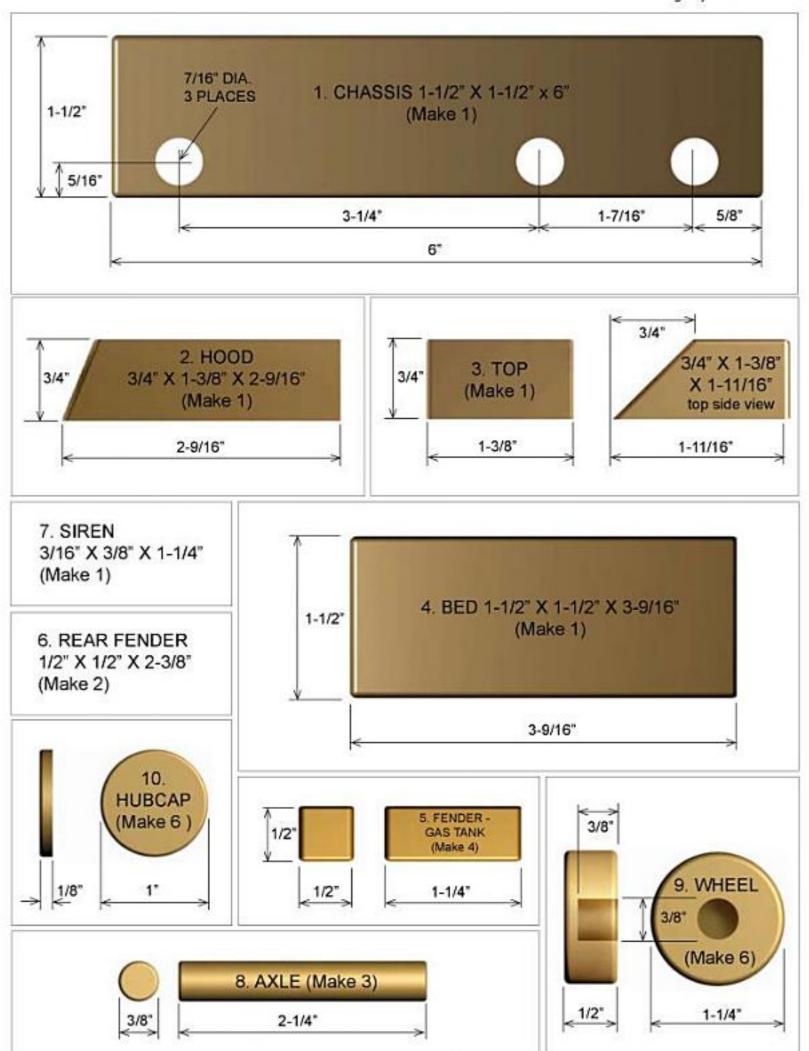
1.	CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 2-9/16"	PINE
2.	TRAILER BED	MAKE 1	1/2" X 2-3/8" X 5-9/16"	PINE
3.	TRAILER TOP	MAKE 1	1/2" X 2-3/8" X 5-9/16"	PINE
4.	TRAILER SIDES	MAKE 2	1/2" X 1-5/16" X 5-9/16"	PINE
5.	TRAILER FRONT	MAKE 1	1/2" X 1-3/8" X 1-3/8"	PINE
6.	TRAILER HITCH	MAKE 1	1" X 3/8" DIAMETER	DOWEL
7.	AXLE	MAKE 2	2-1/4" X 3/8" DIAMETER	DOWEL
8.	WHEEL	MAKE 4	1/2" X 1-1/4" DIAMETER	DOWEL
9.	HUBCAP	MAKE 4	1/8" X 1" DIAMETER	DOWEL











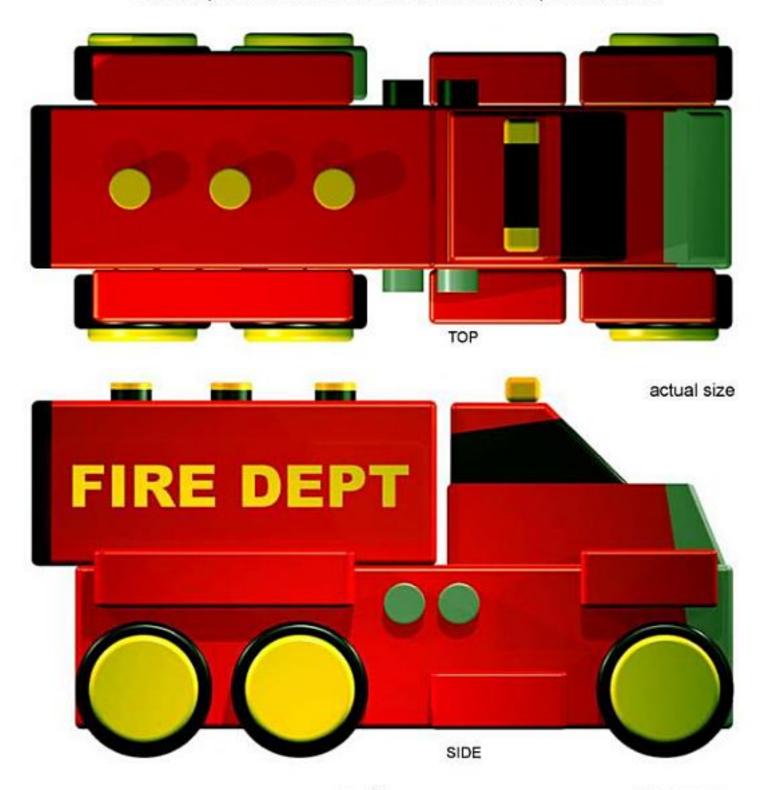
- The emergency vehicle looks great painted and unpainted. Color adds a lot of punch. Paint it a solid color with the wheels a contrasting color. Or it can be painted with multiple colors to create your own personal look.
- 10. Paint the emergency vehicle using water based enamels. First apply 3 coats, sanding between with 200 grit paper. Then add trim. Use painter's trim masking tape for a clean edge. The hubcaps can be painted with an artist's brush.

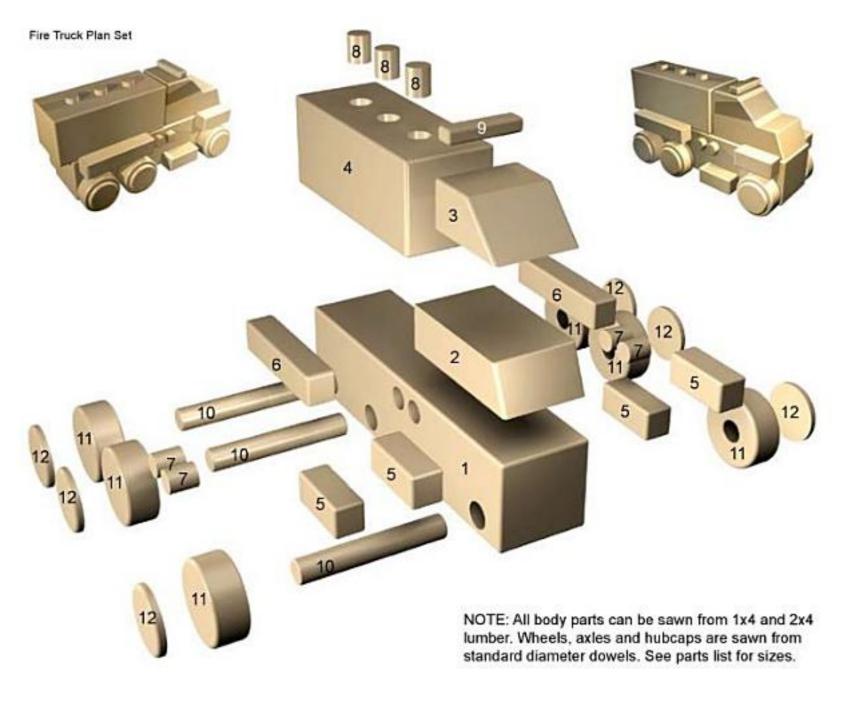


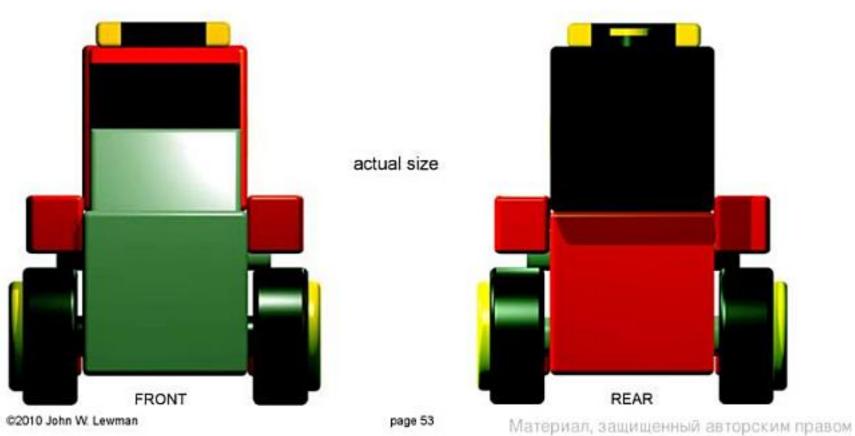


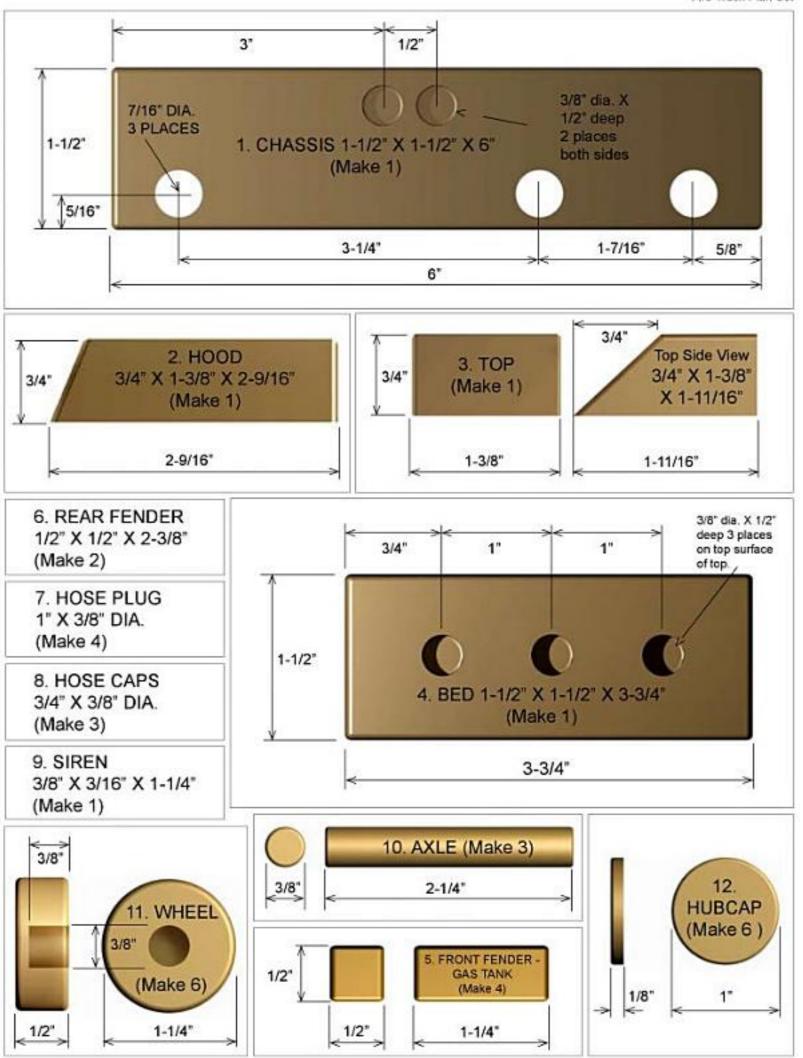


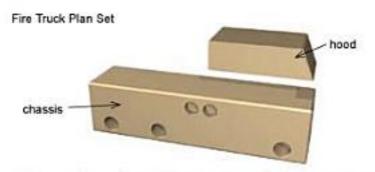
PINE
PINE
DOWEL
DOWEL
PINE
DOWEL
DOWEL
DOWEL



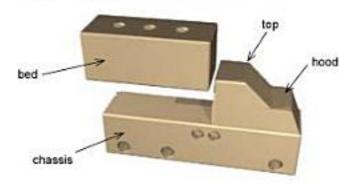




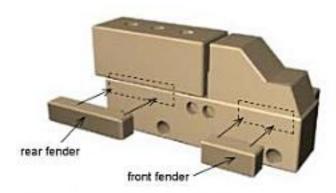




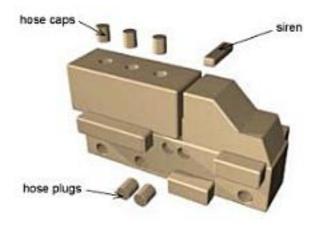
 Round the edges of the chassis and the front edges of the hood slightly prior to applying the woodworker's glue to the underside of the hood. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



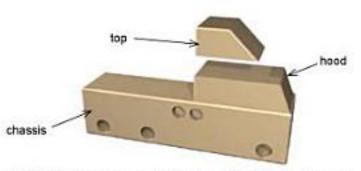
Apply glue to the chassis where the bed is attached.Press the bed firmly against the chassis and move it back and forth to spread the glue.



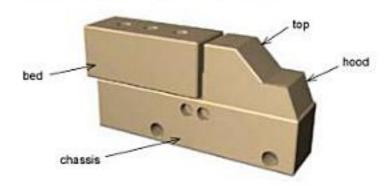
Apply glue to the contact surface of the fenders and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



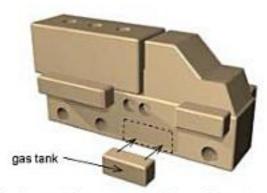
Apply glue to 7 dowel ends and press each firmly into holes in the chassis and truck bed. Apply glue to siren block and press siren firmly to truck cab top.



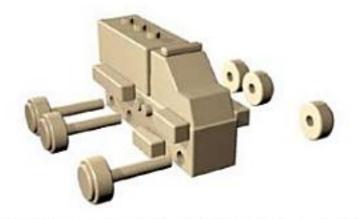
 Add glue to top on the bottom side. Press the top down and slide it around to spread the glue evenly.
 Press down on the top to seat it against the hood. The top and hood are slightly narrower than the chassis and fit side to side in the center of the chassis.



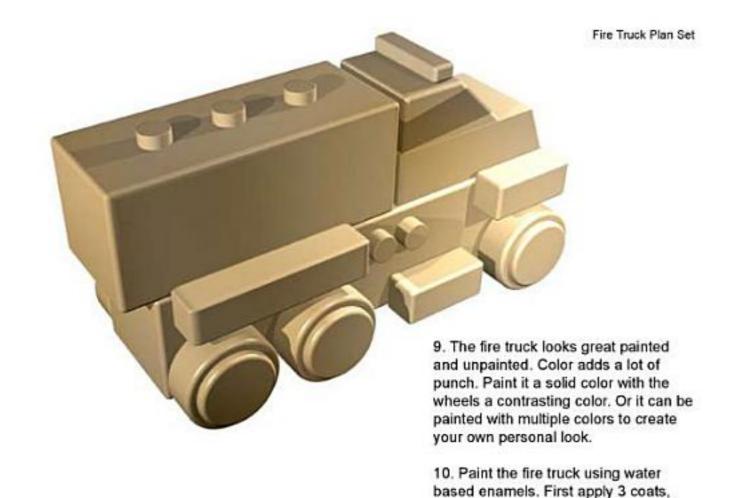
 The truck bed is aligned in the center of the chassis left to right. Leave a little space between the cab and the bed as shown in the side view on page 52.

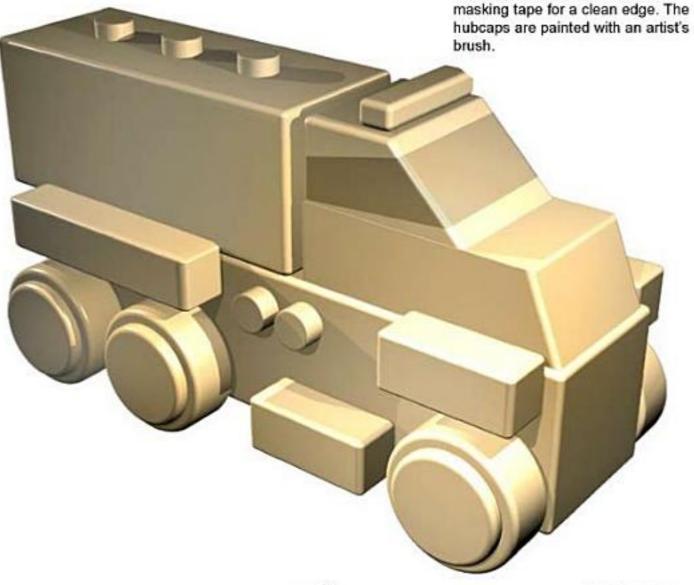


Apply glue to the contact surface of the gas tanks and press each into position tightly on the chassis. Set the chassis aside until the glue is dry.



Glue hubcaps to wheels. Insert axle/wheel assemblies into the chassis. Add glue to holes of remaining wheels and press the wheels onto the axle ends.

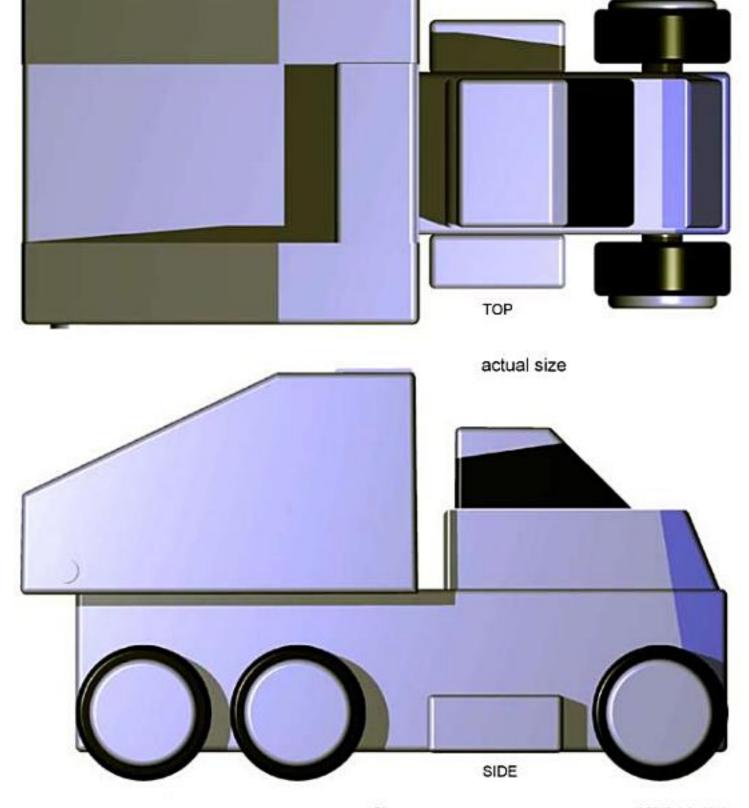


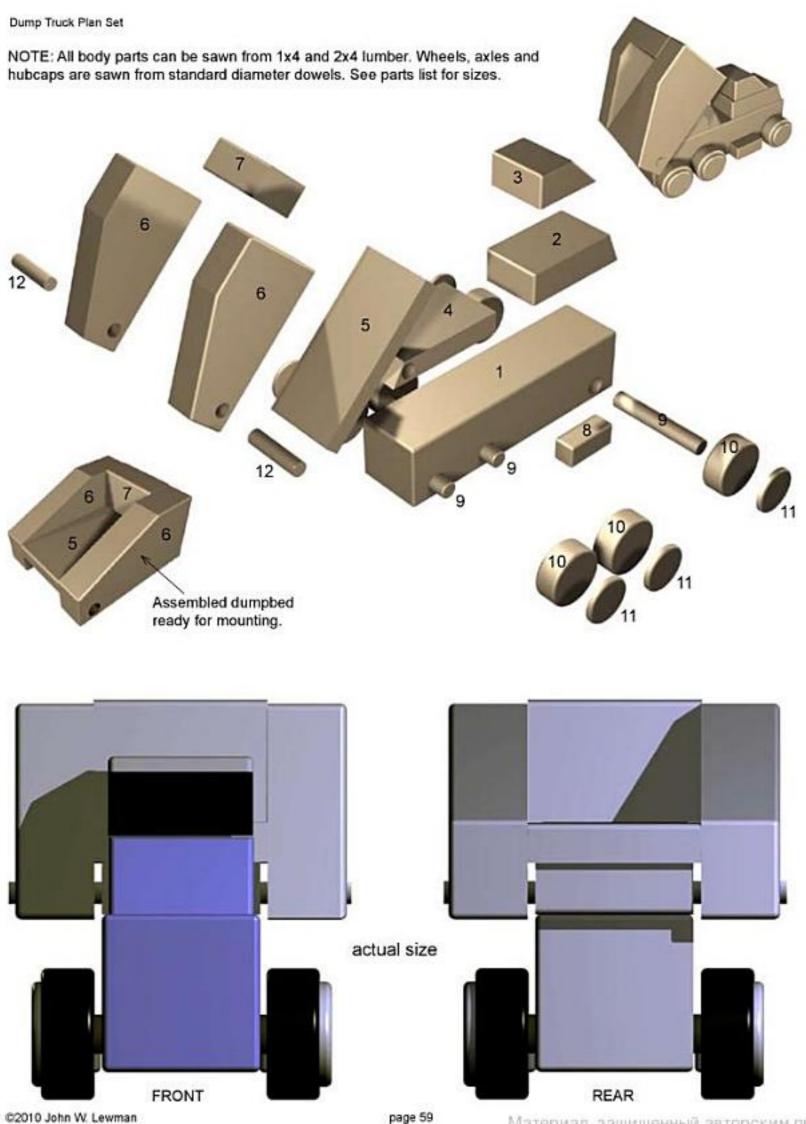


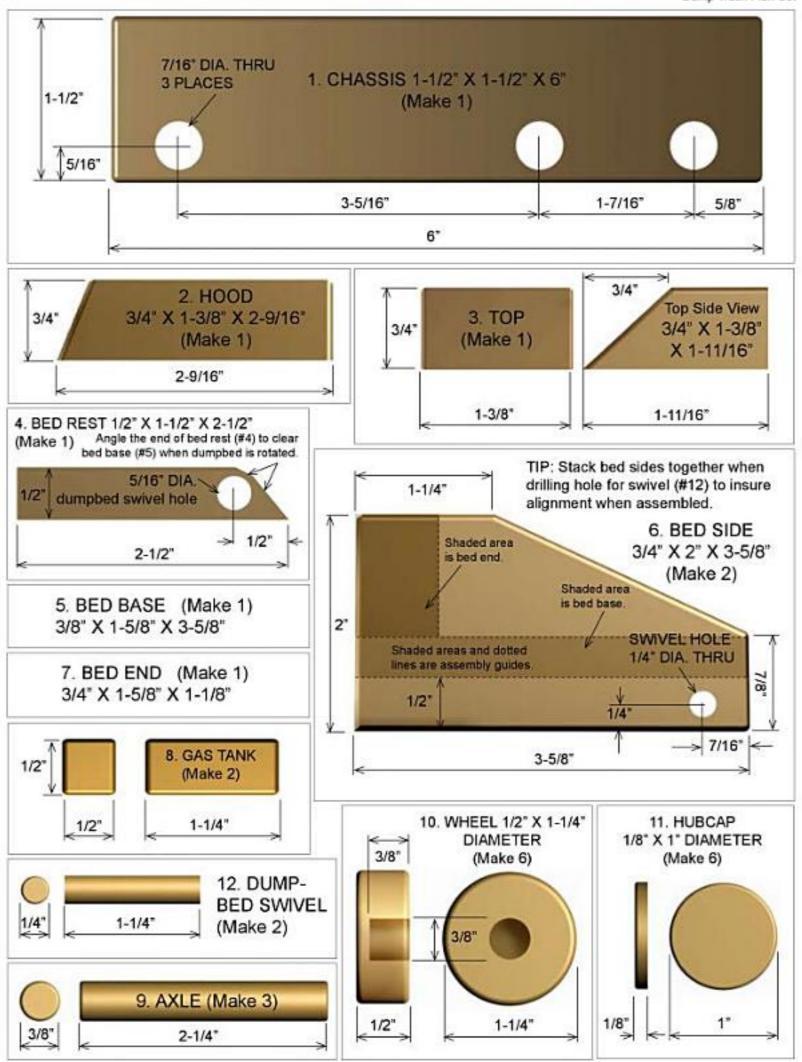
sanding between with 200 grit paper. Then add trim. Use painter's trim



1.	CHASSIS	MAKE 1	1-1/2" X 1-1/2" X 6"	PINE
2.	HOOD	MAKE 1	3/4" X 1-3/8" X 2-9/16"	PINE
3.	TOP	MAKE 1	3/4" X 1-3/8" X 1-11/16"	PINE
4.	BED REST	MAKE 1	1/2" X 1-1/2" X 2-1/2"	PINE
5.	BED BASE	MAKE 1	3/8" X 1-5/8" X 3-5/8"	PINE
6.	BED SIDE	MAKE 2	3/4" X 2" X 3-5/8"	PINE
7.	BED END	MAKE 1	3/4" X 1-5/8" X 1-1/8"	PINE
8.	GAS TANK	MAKE 2	1/2" X 1/2" X 1-1/4"	PINE
9.	AXLE	MAKE 3	2-1/4" X 3/8" DIAMETER	DOWEL
10.	WHEEL	MAKE 6	1/2" X 1-1/4" DIAMETER	DOWEL
11.	HUBCAP	MAKE 6	1/8" X 1" DIAMETER	DOWEL
12.	SWIVEL	MAKE 2	1-1/4" X 1/4" DIAMETER	DOWEL



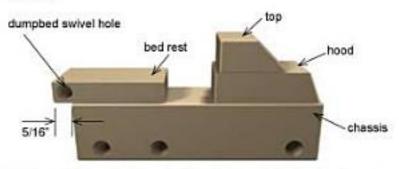




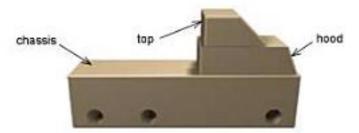
Dump Truck Plan Set



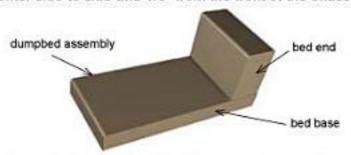
 Round off the edges of the chassis and the top edges of the hood slightly as shown above prior to applying the woodworker's glue to the underside of the hood. A piece of 100 grit sandpaper wrapped around a small block works well for creating smooth and straight rounded edges.



 After drilling the dumpbed swivel hole in the bed rest press the bed rest down and slide it to spread the glue evenly. Once you feel the glue has a good grip press down on the bed rest to seat it against the chassis.

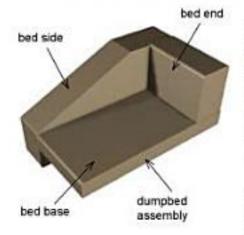


2. Press the hood, then the top down and slide each around to spread the glue evenly. Once you feel the glue has a good grip press down on the top to seat it against the hood and to seat the hood to the chassis. The top and hood are slightly narrower than the chassis so be careful to align the sides of the top and hood in the center side to side and 1/8" from the front of the chassis.



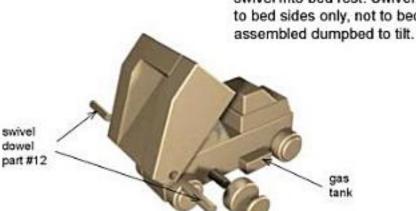
4. Press the bed end and bed base together evenly. Once you feel the glue has a good grip press down on the bed end to seat it against the bed base. Let glue dry before proceeding to step 5.

assembled



5. Place glue on side edges of dumpbed assembly from step 4. Press one bed side in place and move it around to spread glue evenly. Make sure the bed base does not block swivel hole in bedside. Repeat step for opposite bed side. Bed base bottom is positioned 1/2" up from bottom edge of bed side. Set assembled dumpbed aside to dry thoroughly.

6. To attach assembled dumpbed to bed rest, apply glue to outside 1/2" end of each swivel dowel. Insert swivel into bed side and guide swivel into bed rest. Swivel dowels are glued to bed sides only, not to bed rest. This allows assembled dumpbed to tilt.



7. Place glue on hubcaps and center hubcaps on the wheels. Slide hubcaps around and press down to achieve a tight fit. Glue gas tanks to each side of chassis. Align gas tanks with bottom edge of the chassis. Do not attach wheels until after the painting steps are completed.



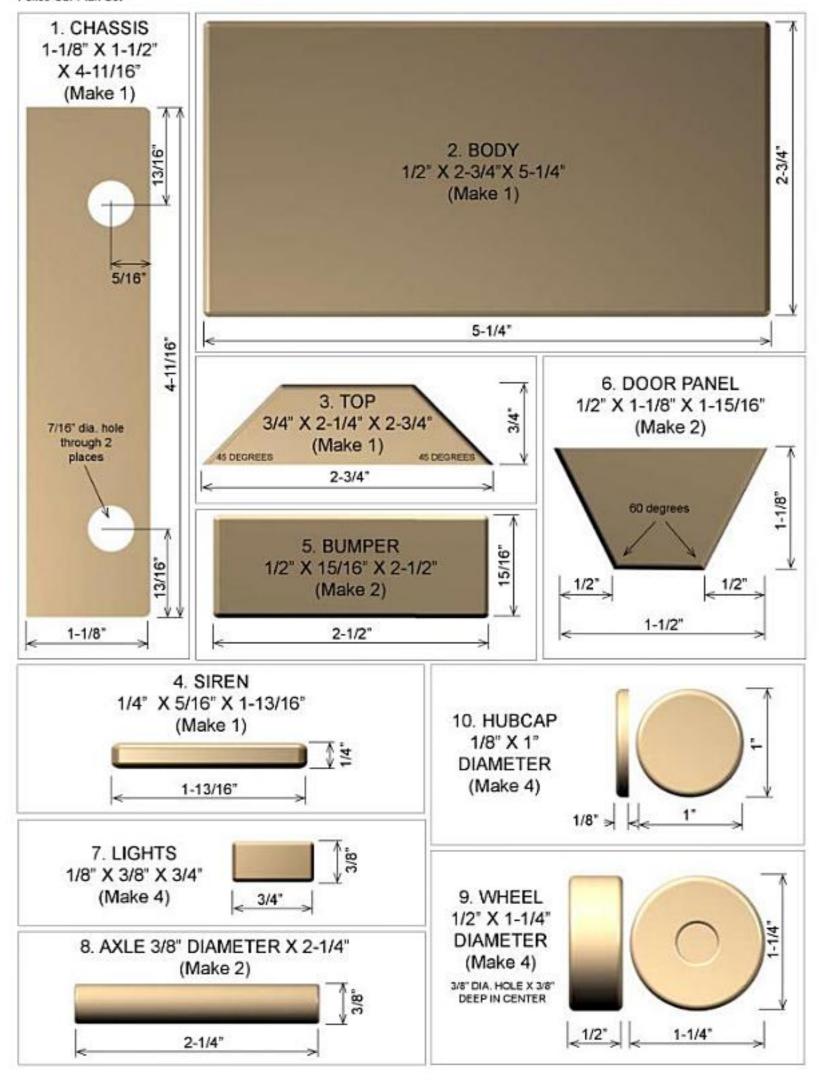
Paint the dump truck using water based enamels.
 First apply 3 coats, sanding between with 200 grit paper. Then add trim. Use painter's trim masking tape for a clean edge. The hubcaps are painted with an artist's brush.



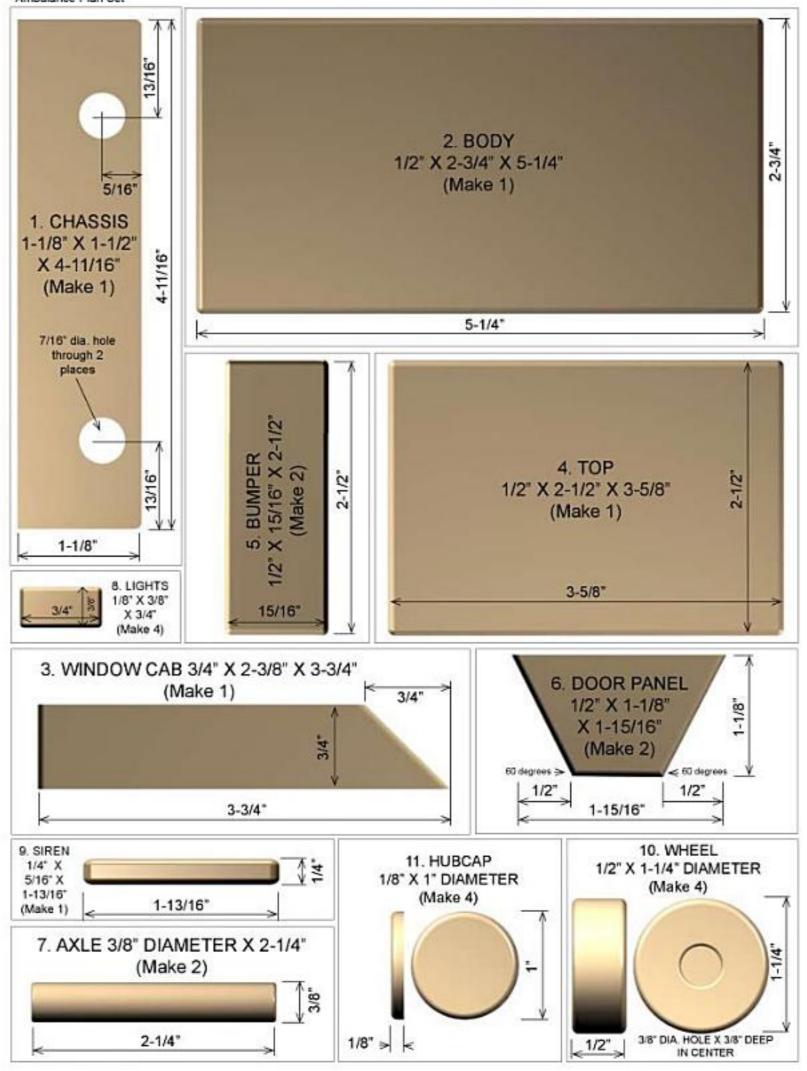
The dump truck looks great painted and unpainted. Color adds a lot of punch. Paint it a solid color with the wheels a contrasting color. Or it can be painted with multiple colors to create your own personal look.







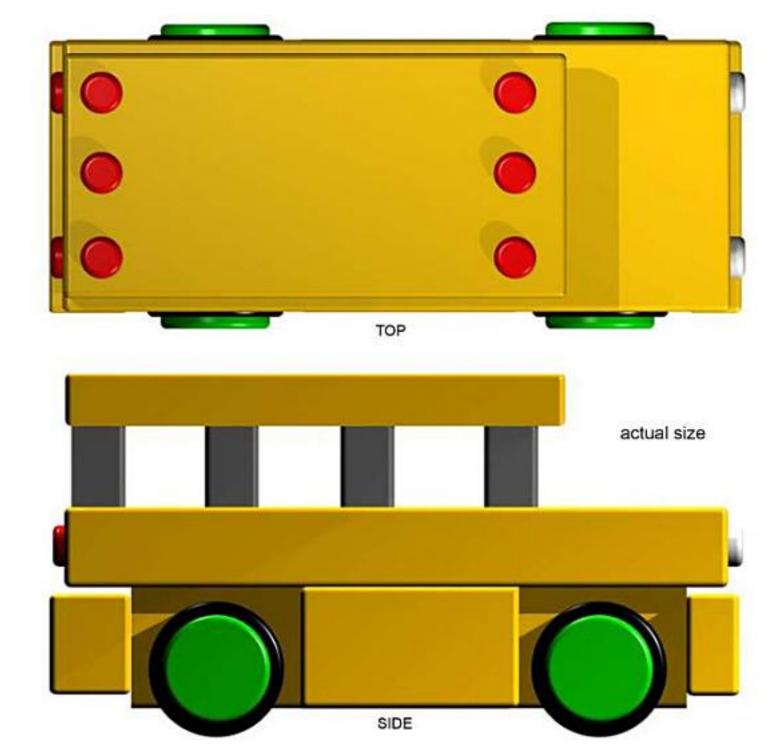


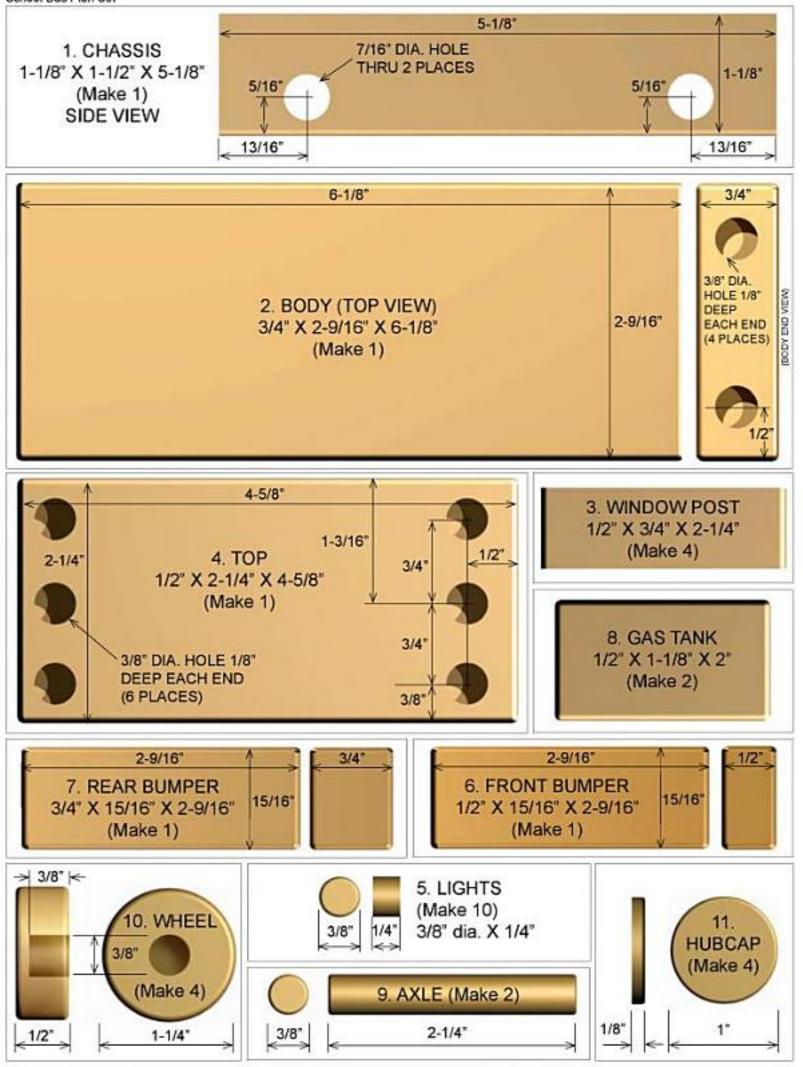


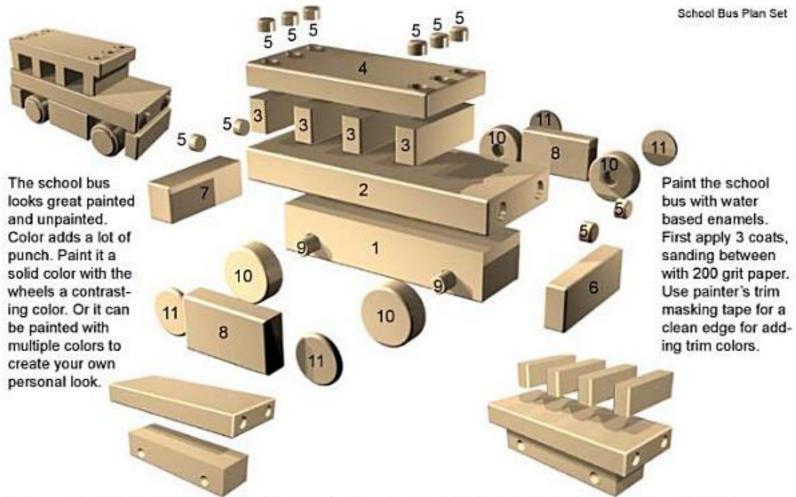


SCHOOL BUS PARTS LIST

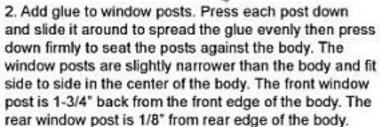
1.	CHASSIS	MAKE 1	1-1/8" X 1-1/2" X 5-1/8"	PINE
2.	BODY	MAKE 1	3/4" X 2-9/16" X 6-1/8"	PINE
3.	WINDOW POST	MAKE 4	1/2" X 3/4" X 2-1/4"	PINE
4.	TOP	MAKE 1	1/2" X 2-1/4" X 4-5/8"	PINE
5.	LIGHTS	MAKE 10	1/4" X 3/8" DIAMETER	DOWEL
6.	FRONT BUMPER	MAKE 1	1/2" X 15/16" X 2-9/16"	PINE
7.	REAR BUMPER	MAKE 1	3/4" X 15/16" X 2-9/16"	PINE
8.	GAS TANK	MAKE 2	1/2" X 1-1/8" X 2"	PINE
9.	AXLE	MAKE 2	2-1/4" X 3/8" DIAMETER	DOWEL
10.	WHEEL	MAKE 4	1/2" X 1-1/4" DIAMETER	DOWEL
11.	HUBCAP	MAKE 4	1/8" X 1" DIAMETER	DOWEL







1. Round off the edges of the body and the edges of the chassis slightly as shown above prior to applying the woodworker's glue to the top side of the chassis. Press the body to the chassis firmly. Slide the body around on the chassis to spread the glue evenly. The chassis is positioned in the center of the body, side to side, and 3/8" back from the front edge of the body.





3. Apply glue to the contact surface of the gas tanks and lights. Press the gas tanks into position tightly on the chassis. Next, press the lights into position in the 6 holes in the top. Add glue to top of window posts. Press top into place on window posts. Let glue dry.



4. Apply glue to the contact surface of the bumpers and press each into position tightly on the chassis. Leave 1/8" space between bottom of body and top of bumpers. Add glue to the front and rear lights and press into place into the 4 holes in the body.

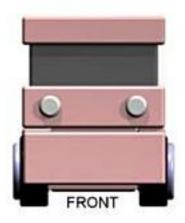


Place glue on the hubcaps and center the hubcaps on the wheels. Slide around and press down to achieve a tight fit. Add glue to 2 wheel holes and insert 2 axles.

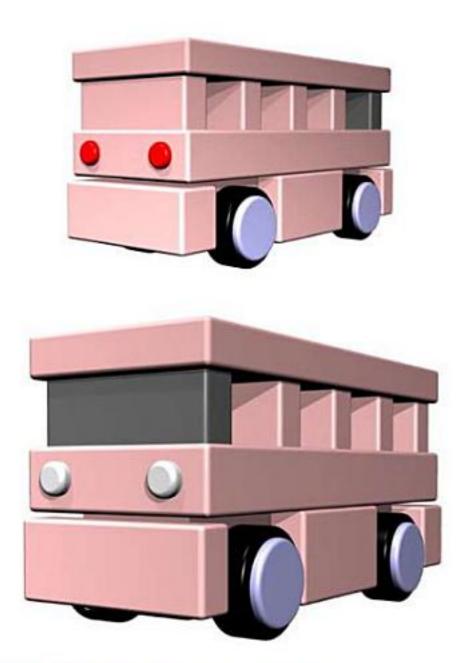


Insert the 2 axle/wheel assemblies into the chassis.Add glue to the wheel holes of the 2 remaining wheels and press the wheels onto the axle ends.

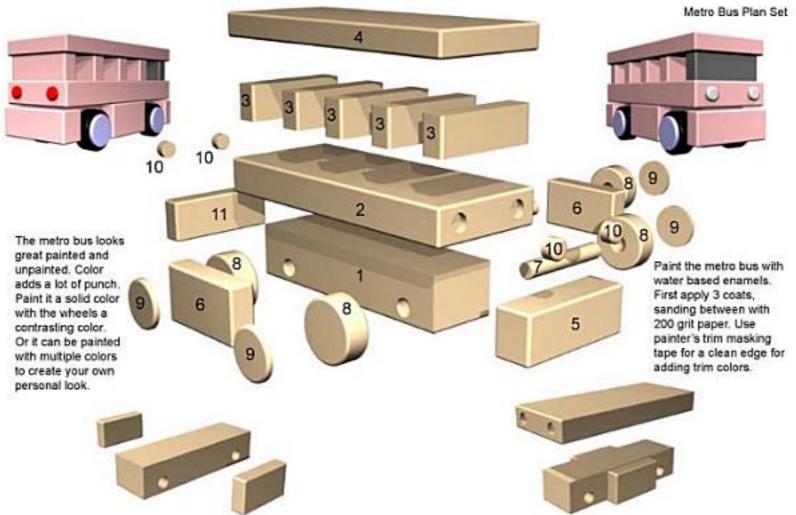
Metro Bus Plan Set



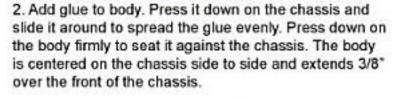


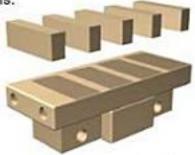






 Round off the edges of the gas tanks and the edges of the chassis slightly as shown above prior to applying the woodworker's glue to the back side of the gas tanks. Press the tanks to the chassis firmly.
 The gas tanks are positioned 1-9/16" from either end of the chassis.

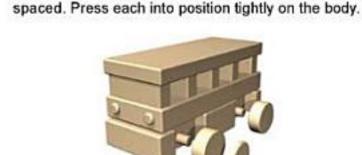




Apply glue to contact surface of window posts. Front and rear window posts are glued 1/8" from front and rear edge of the body. Inner 3 window posts are evenly spaced. Press each into position tightly on the body.



4. Apply glue to the contact surface of the bumpers and press each into position tightly on the chassis. Add glue to the front and rear lights and press into place.



Place glue on the hubcaps and center the hubcaps on the wheels. Slide around and press down to achieve a tight fit. Add glue to 2 wheel holes and insert 2 axles.

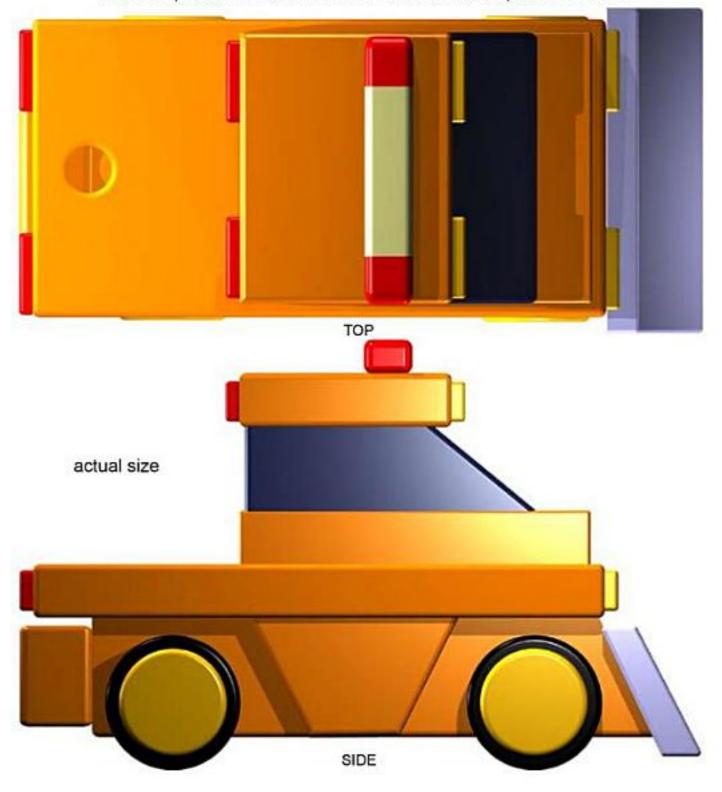


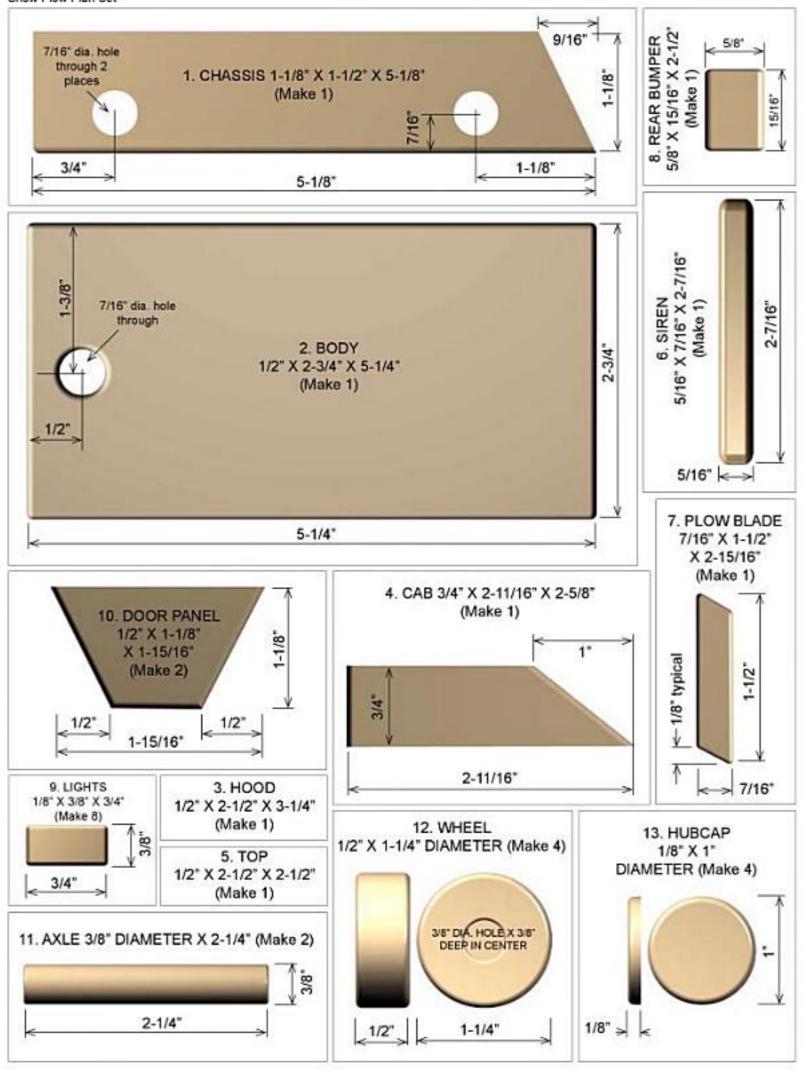
Insert the 2 axle/wheel assemblies into the chassis.Add glue to the wheel holes of the 2 remaining wheels and press the wheels onto the axle ends.



SNOW PLOW PARTS LIST			
CHASSIS	MAKE 1	1-1/8" X 1-1/2" X 5-1/8"	PINE
BODY	MAKE 1	1/2" X 2-3/4" X 5-1/4"	PINE
HOOD	MAKE 1	1/2" X 2-1/2" X 3-1/4"	PINE
CAB	MAKE 1	1/2" X 2-11/16" X 2-5/8"	PINE
TOP	MAKE 1	1/2" X 2-1/2" X 2-1/2"	PINE
SIREN	MAKE 1	5/16" X 7/16" X 2-7/16"	PINE
PLOW BLADE	MAKE 1	7/16" X 1-1/2" X 2-15/16"	PINE
REAR BUMPER	MAKE 1	5/8" X 15/16" X 2-1/2"	PINE
LIGHTS	MAKE 8	1/8" X 3/8" X 3/4"	PINE
DOOR PANEL	MAKE 2	1/2" X 1-1/8" X 1-15/16"	PINE
AXLE	MAKE 2	2-1/4" X 3/8" DIAMETER	DOWEL
WHEEL	MAKE 4	1/2" X 1-1/4" DIAMETER	DOWEL
HUBCAP	MAKE 4	1/8" X 1" DIAMETER	DOWEL
	CHASSIS BODY HOOD CAB TOP SIREN PLOW BLADE REAR BUMPER LIGHTS DOOR PANEL AXLE WHEEL	CHASSIS MAKE 1 BODY MAKE 1 HOOD MAKE 1 CAB MAKE 1 TOP MAKE 1 SIREN MAKE 1 PLOW BLADE MAKE 1 REAR BUMPER MAKE 1 LIGHTS MAKE 8 DOOR PANEL MAKE 2 AXLE MAKE 2 WHEEL MAKE 4	CHASSIS MAKE 1 1-1/8" X 1-1/2" X 5-1/8" BODY MAKE 1 1/2" X 2-3/4" X 5-1/4" HOOD MAKE 1 1/2" X 2-1/2" X 3-1/4" CAB MAKE 1 1/2" X 2-11/16" X 2-5/8" TOP MAKE 1 1/2" X 2-11/16" X 2-5/8" TOP MAKE 1 5/16" X 7/16" X 2-7/16" PLOW BLADE MAKE 1 7/16" X 1-1/2" X 2-15/16" REAR BUMPER MAKE 1 5/8" X 15/16" X 2-1/2" LIGHTS MAKE 8 1/8" X 3/8" X 3/4" DOOR PANEL MAKE 2 1/2" X 1-1/8" X 1-15/16" AXLE MAKE 2 2-1/4" X 3/8" DIAMETER WHEEL MAKE 4 1/2" X 1-1/4" DIAMETER

NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.





Round off edges of the parts to your taste prior to applying woodworker's glue to the underside of the body.
 O grit sandpaper wrapped to a small block works well for smooth and straight rounded edges.



 Apply glue to bottom of body.
 Press to chassis. Slide each around to spread glue evenly. Align the body carefully on the chassis as shown on page 79. Press the body firmly into place.



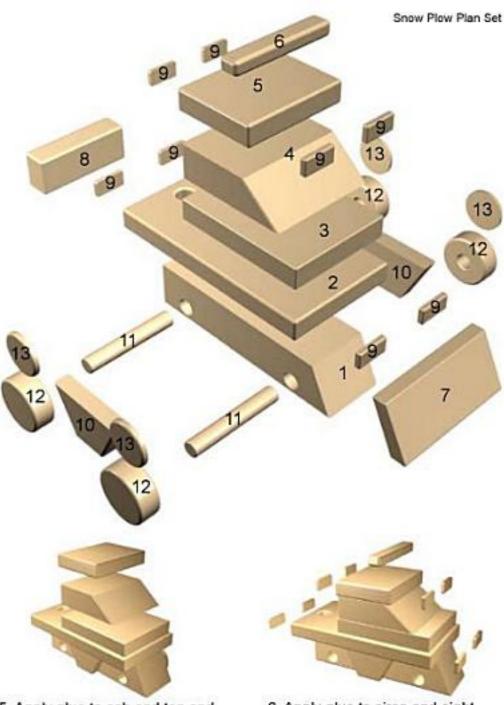
Apply glue to door panels. Position panels on each side of chassis. Slide panels around to spread glue evenly. Once glue has a grip press panels into place. Allow glue to dry before proceeding.



4. Apply glue to hood and press into place at front end of body. Slide hood around to spread glue evenly. Once glue has a grip press hood into place. Allow glue to dry before proceeding.



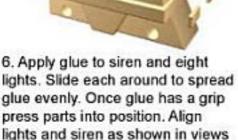
 Apply glue to bumper and snow plow. Align the bumper and snow plow with the chassis as shown on page 80. Slide each part around and press down for a tight fit. Let glue dry before proceeding.



 Apply glue to cab and top and set each into place on hood. Slide parts around to spread glue evenly.
 Once glue has a grip press parts into position. Allow glue to dry before proceeding.



 Apply glue to hubcaps and place hubcaps on wheels. Slide each part around then press down for a tight fit. Let glue dry before proceeding. Glue axles to wheels to snow plow after painting.





on page 80.

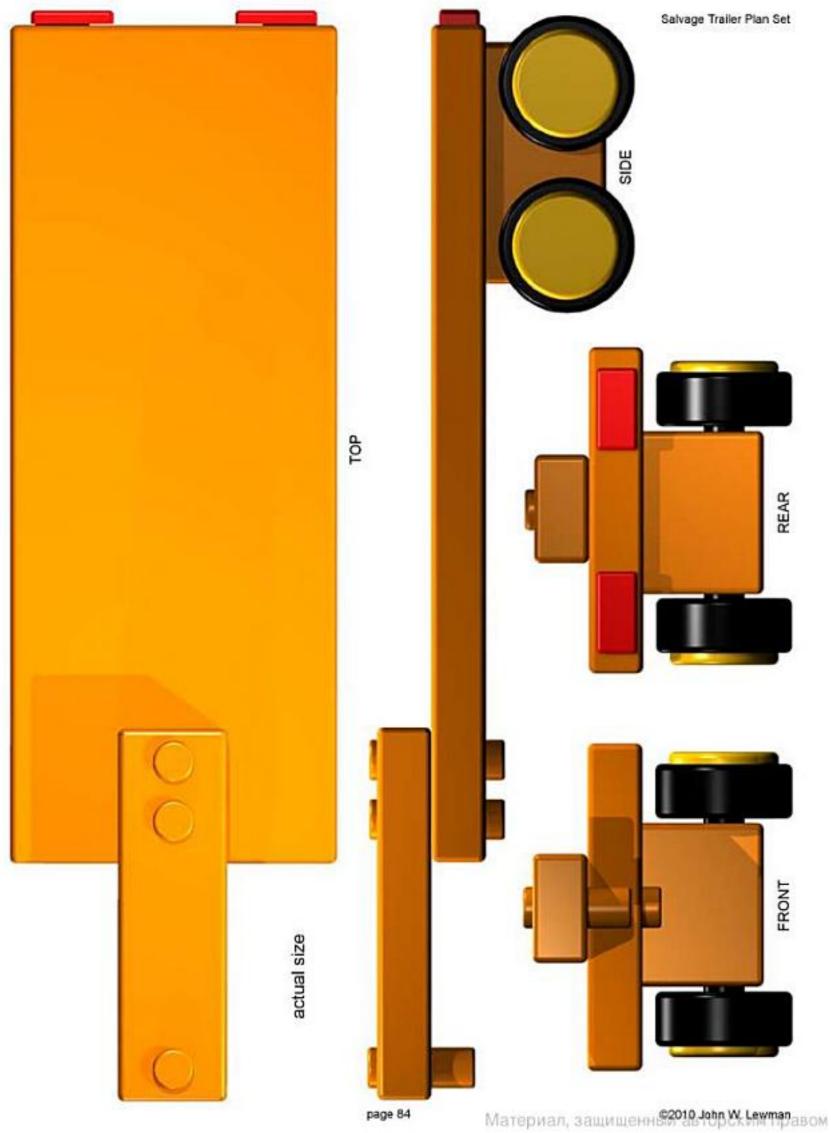
 Paint a solid color with water based enamel. Apply 3 coats, sanding first 2 coats with 200 grit paper. Added colors are masked with painter's trim masking tape for clean edge.

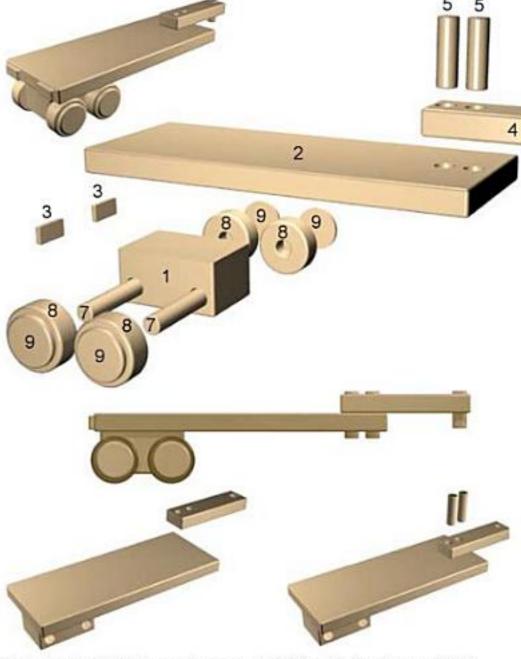


SALVAGE TRAILER PARTS LIST

1.	CHASSIS	MAKE 1	1-1/8" X 1-1/2" X 2-3/4"	PINE
2.	HAUL BED	MAKE 1	1/2" X 3" X 7-3/4"	PINE
3.	LIGHTS	MAKE 2	1/8" X 3/8" X 3/4"	PINE
4.	HITCH BAR	MAKE 1	1/2" X 1" X 3-7/16"	PINE
5.	HITCH PIN	MAKE 2	1-1/4" X 3/8" DIAMETER	DOWEL
6.	HITCH	MAKE 1	1" X 3/8" DIAMETER	DOWEL
7.	AXLE	MAKE 2	2-1/4" X 3/8" DIAMETER	DOWEL
8.	WHEEL	MAKE 4	1/2" X 1-1/4" DIAMETER	DOWEL
9.	HUBCAP	MAKE 4	1/8" X 1" DIAMETER	DOWEL

NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.





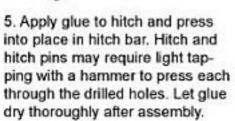
 Round off edges of parts prior to applying woodworker's glue to underside of the body. 100 grit sandpaper wrapped to a small block works well for smooth and straight rounded edges.



 Apply glue to top of chassis.
 Press haul bed onto chassis and slide it around to spread glue evenly placing chassis as shown on page 84.



 Apply glue to hitch bar and press to haul bed. Slide each around to spread glue evenly. Align the part carefully on haul bed as shown on page 84. Let glue dry thoroughly before proceeding. 4. Drill haul bed using pre-drilled hitch bar glued in place as a guide. Drill 2 holes through hitch bar into the haul bed. Press and glue hitch pins into place. Allow glue to dry before proceeding.





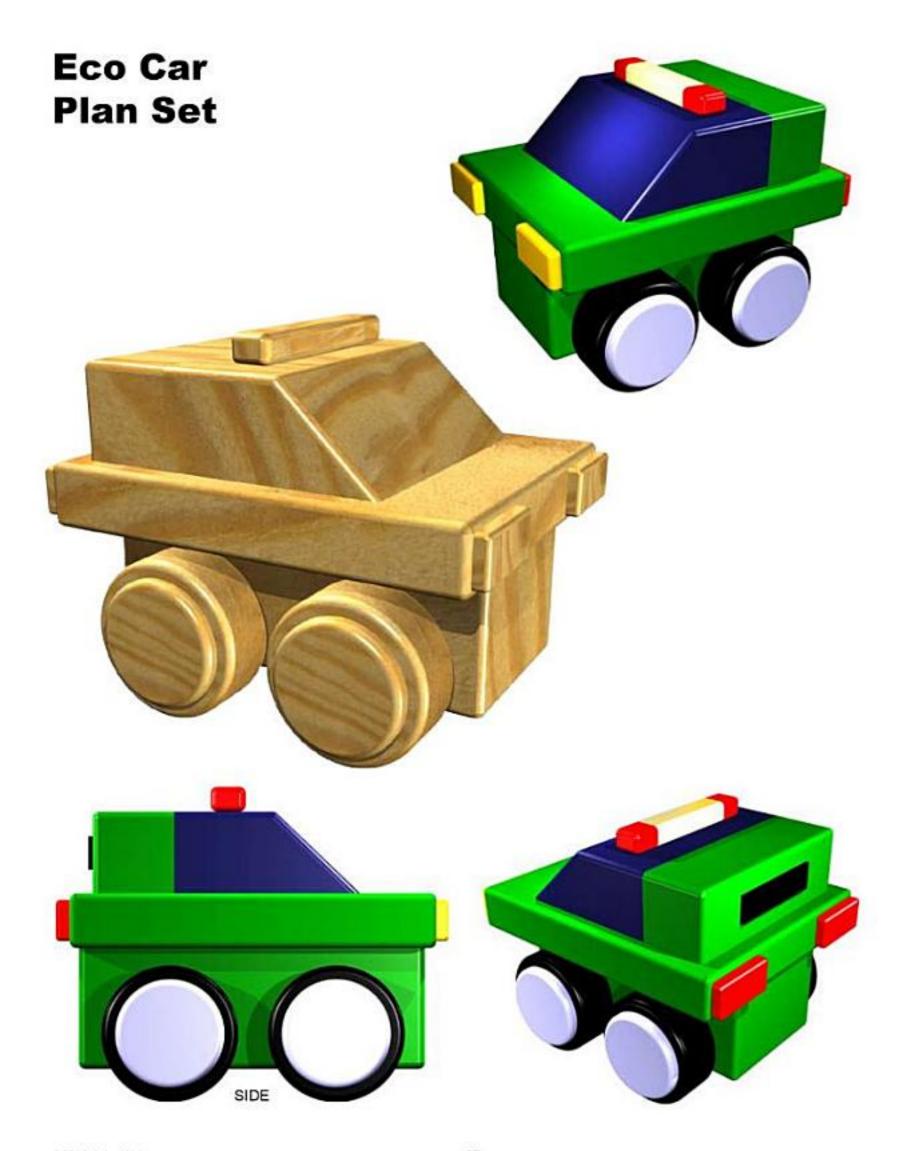
 Place glue on the lights and press into place on haul bed rear edge. Slide the lights around and press down for a tight fit. Allow the lights to dry thoroughly before proceeding with the next steps.



7. Place glue on the hubcaps and center the hubcaps on the wheels. Slide around and press down to achieve a tight fit. Wheels and axles are added to the assembly after the painting steps are completed and paint is dry.



 Paint a solid color with non-toxic water based enamel. Apply 3 coats, sanding first 2 coats with 200 grit paper. Do not sand final coat. Added colors are masked with painter's trim masking tape for clean edge.



ECO CAR PARTS LIST

1.	CHASSIS	MAKE 1	1-1/8" X 1-1/2" X 3-3/16"	PINE
2.	BODY	MAKE 1	1/2" X 2-3/4" X 2-3/8"	PINE
3.	TOP	MAKE 1	3/4" X 2-3/8" X 2-7/16"	PINE
4.	SIREN	MAKE 1	1/4" X 5/16" X 1-13/16"	PINE
5.	REAR WINDOW	MAKE 1	1/16" X 5/16" X 1-3/16"	PINE
6.	LIGHTS	MAKE 4	1/8" X 3/8" X 3/4"	PINE
7.	AXLE	MAKE 2	2-1/4" X 3/8" DIAMETER	DOWEL
8.	WHEEL	MAKE 4	1/2" X 1-1/4" DIAMETER	DOWEL
9.	HUBCAP	MAKE 4	1/8" X 1" DIAMETER	DOWEL

NOTE: All body parts can be sawn from 1x4 and 2x4 lumber. Wheels, axles and hubcaps are sawn from standard diameter dowels. See parts list for sizes.

