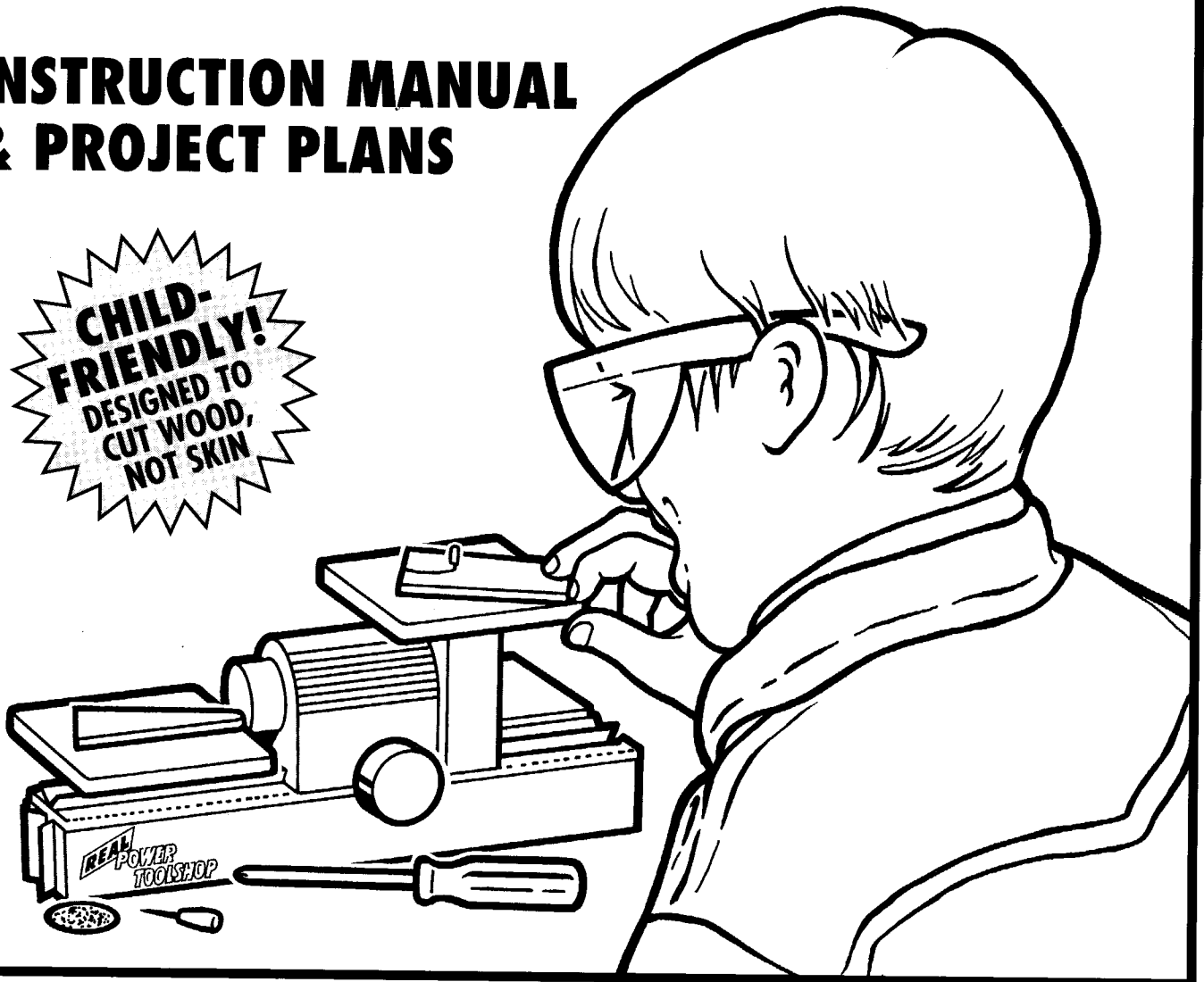


# REAL POWER TOOLSHOP™

FUN AND EASY-TO-USE REAL POWER TOOLS by Tonka

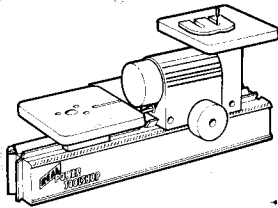
## INSTRUCTION MANUAL & PROJECT PLANS

**CHILD-FRIENDLY!**  
DESIGNED TO  
CUT WOOD,  
NOT SKIN

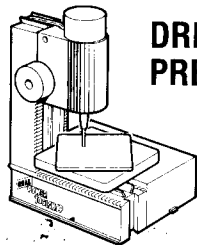


### 4 TOOLS IN ONE

**1** JIGSAW



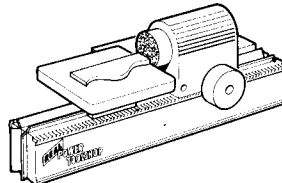
**2**



**DRILL  
PRESS**

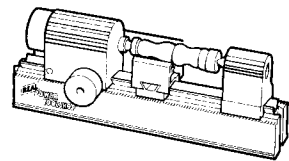
**3**

**SANDER**



**4**

**WOOD LATHE**



**CAUTION:** NOT RECOMMENDED FOR CHILDREN UNDER 8 YEARS OF AGE. ITEM CONTAINS SOME COMPONENTS WITH FUNCTIONAL SHARP POINTS AND SHARP EDGES; HANDLE WITH CARE. ADULT SUPERVISION IS RECOMMENDED. Product and colors may vary. Safety glasses not included.

**REQUIRES 4 "D" ALKALINE BATTERIES (NOT INCLUDED).**

# IMPORTANT SAFETY INFORMATION

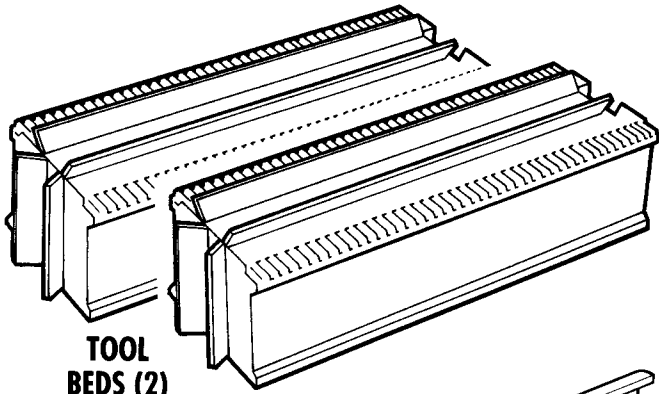
- **We recommend the use of safety goggles at all times when operating the Real Power Toolshop. The goggles must meet requirements of ANSI Z87.1.**
- **This product is a real power tool. Special care and attention are required when using power tools.**
- **Before using the Real Power Toolshop, read through the entire instruction manual and familiarize yourself with the parts of the product. Follow all instructions and precautions carefully.**
- **Be sure to ALWAYS disconnect plug from battery box when changing from one tool to the next.**
- **Do not abuse the Real Power Toolshop or use it for tasks different from the tasks described in this instruction manual.**
- **Do not use the Real Power Toolshop with any material other than wood.**
- **Keep the Real Power Toolshop in good working order by removing accumulated wood dust with a vacuum cleaner.**

## CAUTION:

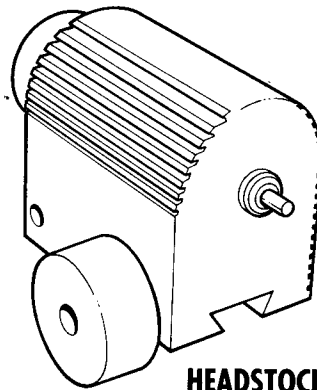
**ALTHOUGH THE REAL POWER TOOLSHOP IS DESIGNED TO AVOID CUTTING THROUGH SOFT SURFACES LIKE SKIN, SOME OF ITS PARTS HAVE FUNCTIONAL SHARP POINTS AND SHARP EDGES. THIS PRODUCT MUST BE HANDLED WITH CARE AT ALL TIMES.**

**YOU SHOULD PRACTICE WITH SCRAP PIECES OF WOOD BEFORE STARTING A PROJECT. THIS WILL HELP YOU GET THE FEEL OF WORKING WITH WOOD AND BRING YOU BETTER RESULTS.**

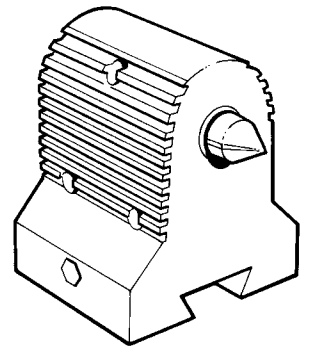
# MAJOR PARTS



**TOOL BEDS (2)**



**HEADSTOCK**



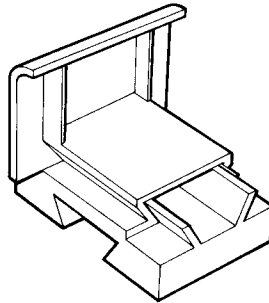
**TAILSTOCK**



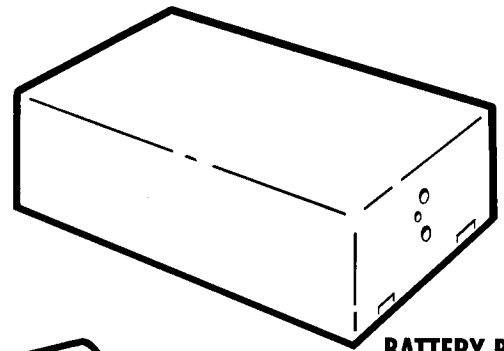
**BRASS CAM PIECE**



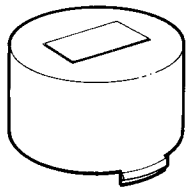
**DRILL BIT**



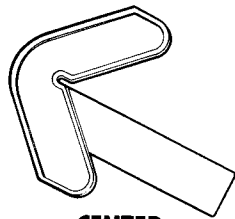
**TOOL REST**



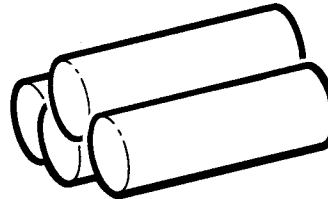
**BATTERY BOX**



**SANDER COVER**



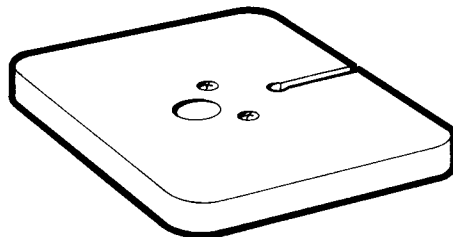
**CENTER FINDER**



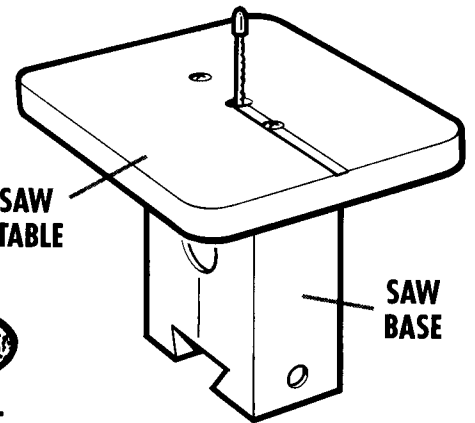
**WOODEN DOWELS (4)**



**JIGSAW BLADES (2)**



**DRILL TABLE/  
SANDING TABLE**

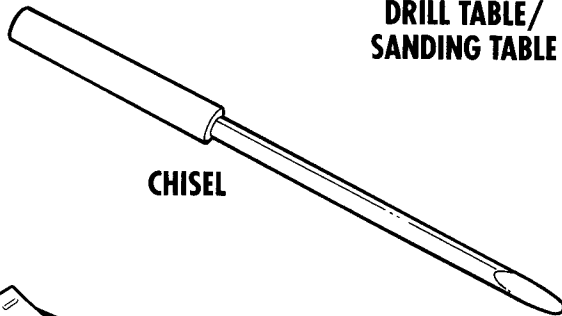


**SAW TABLE**

**SAW BASE**



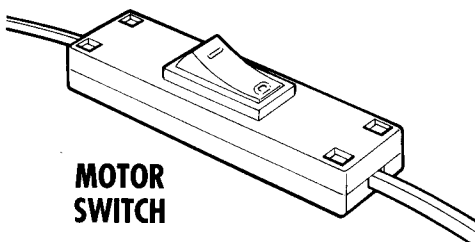
**SANDING DISC**



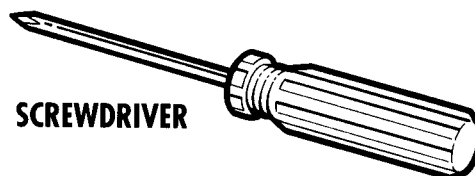
**CHISEL**



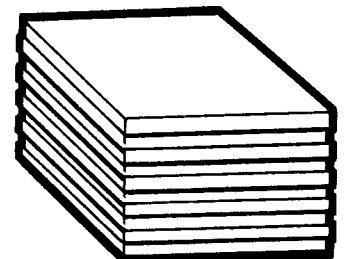
**LATHE DRIVER**



**MOTOR SWITCH**

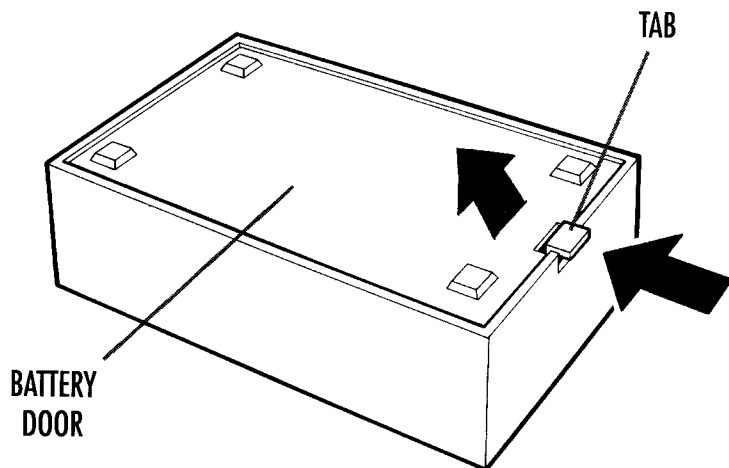


**SCREWDRIVER**



**WOOD PIECES (10)**

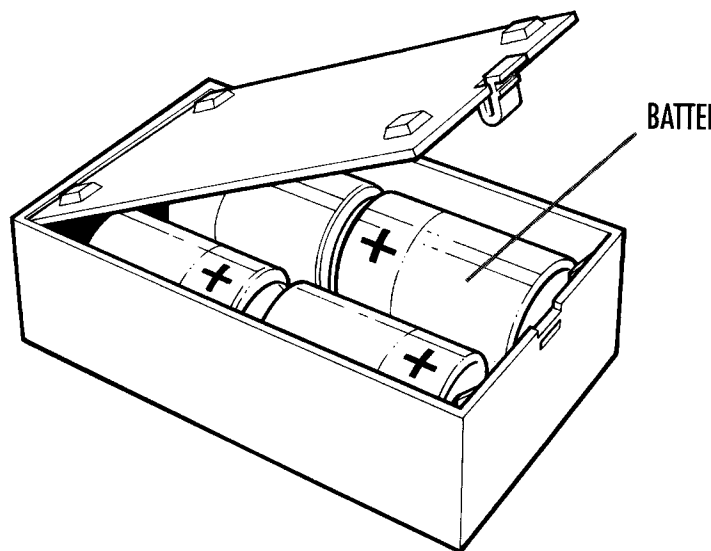
# BATTERY PLACEMENT



1. Press down the tab that secures the battery door, lift and remove door.

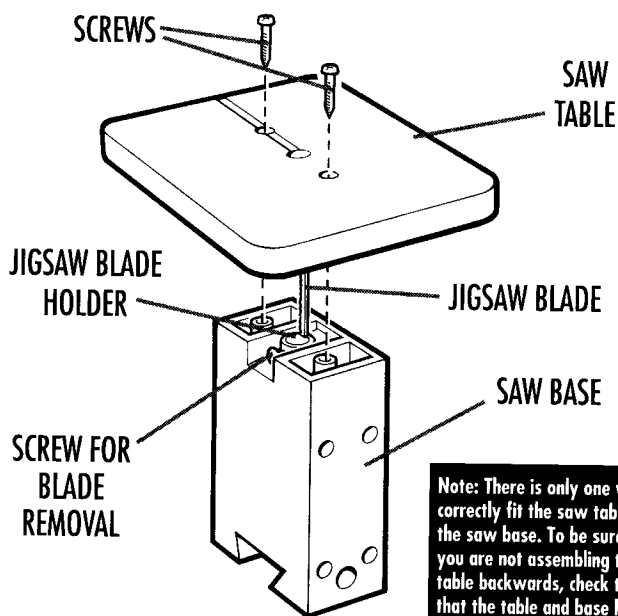
### CAUTION: TO AVOID BATTERY LEAKAGE

1. Be sure to insert the batteries correctly and always follow the toy and battery manufacturers' instructions.
2. Never mix old batteries and new batteries, or standard (carbon-zinc) with alkaline batteries.
3. Always remove exhausted or dead batteries from the product.
4. Remove batteries if product is stored for a long period of time.



2. Insert 4 "D" alkaline batteries and replace door. For best performance, use alkaline batteries only.

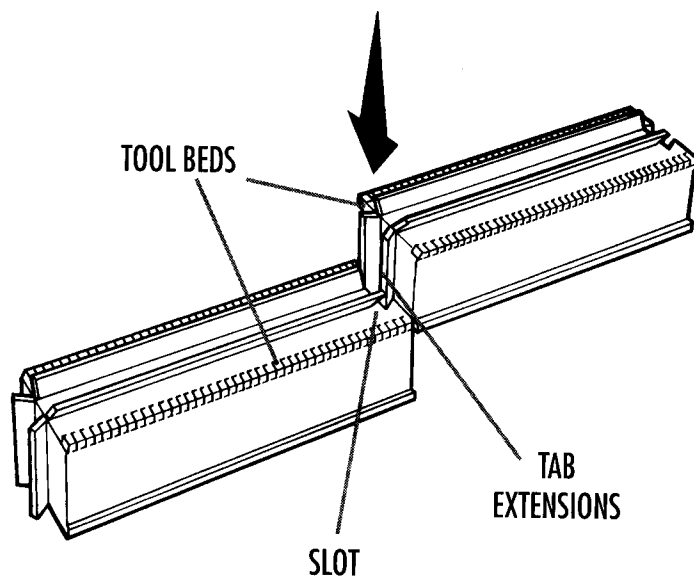
# JIGSAW/SANDER ASSEMBLY



Note: There is only one way to correctly fit the saw table onto the saw base. To be sure that you are not assembling the table backwards, check to see that the table and base line up correctly where they meet.

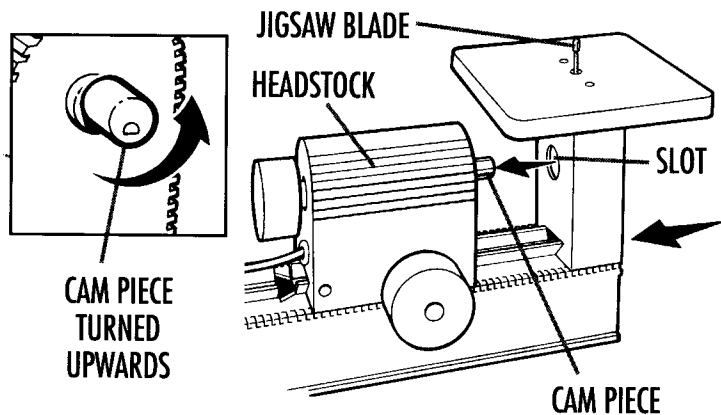
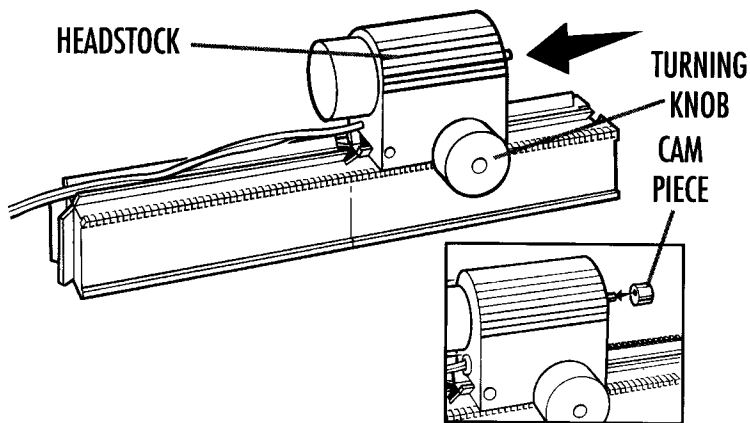
1. Place saw table over saw base and secure with the two 1/2" screws as shown. Make sure the screws are fitted into the screw holes in the saw base. This is a one-time assembly; there is no need to disassemble this piece when setting up the other tools.

4 When jigsaw blade needs replacement, simply unscrew the screw at the base of the blade holder, remove blade and insert a new one. This set includes 1 extra jigsaw blade.



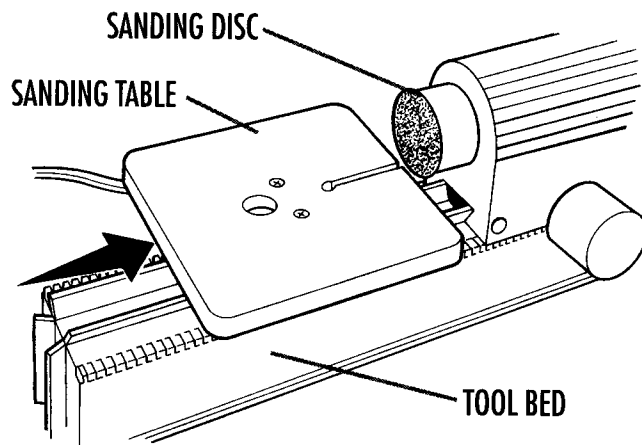
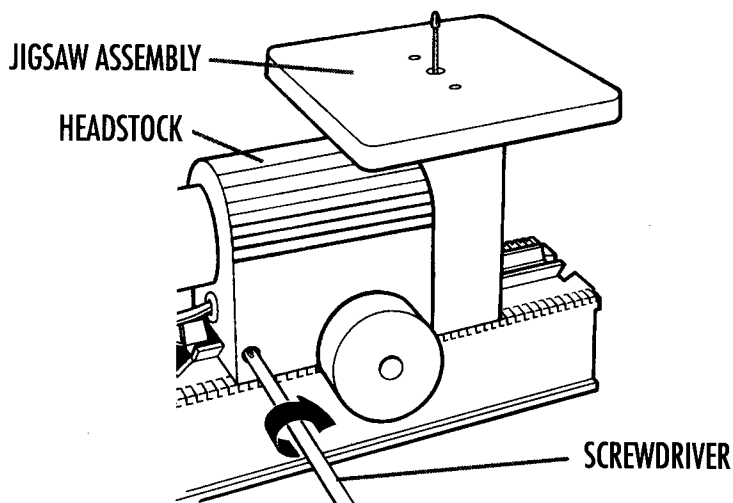
2. Connect the 2 tool beds together, sliding the tab extensions on one bed into the slot on the other. The 2 beds are interchangeable.

# JIGSAW/SANDER ASSEMBLY (CONTINUED)



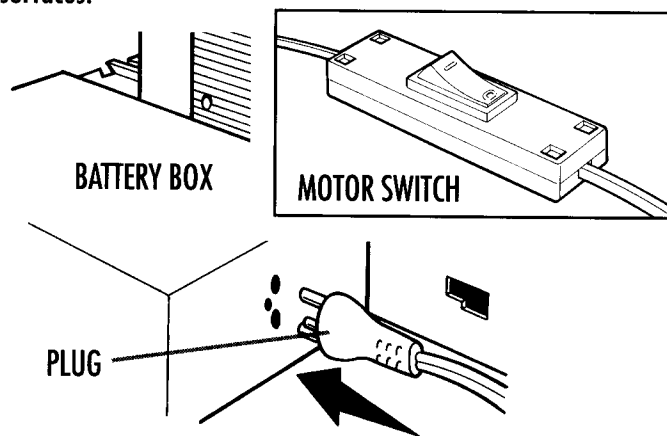
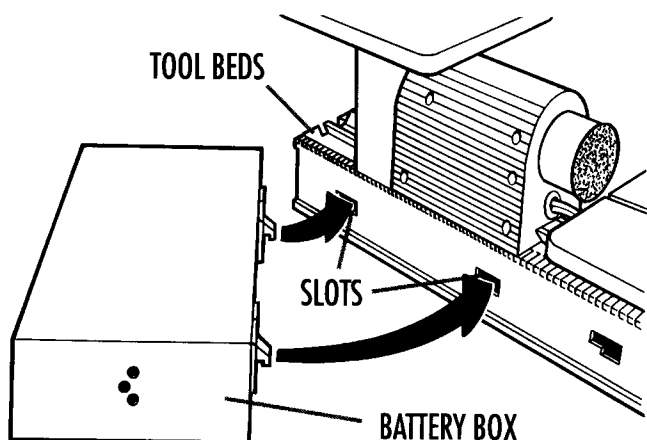
3. Slide headstock onto tool bed as shown, with the turning knob on the opposite side of the battery box slots. Fit the brass cam piece onto the shaft on right side of headstock.

4. Slide jigsaw assembly onto tool bed, fitting the cam piece into slot on jigsaw assembly. **To fit correctly, the cam piece must be turned upwards as shown and the jigsaw blade must be slightly lifted to allow the jigsaw assembly to rest snugly against the headstock.**



5. Use the screwdriver to tighten the screws located at the bottom of the headstock and jigsaw assembly to secure the tools in place.

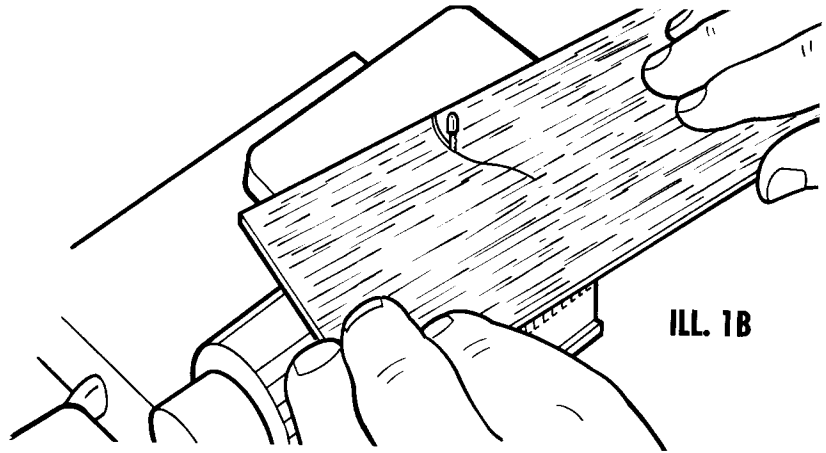
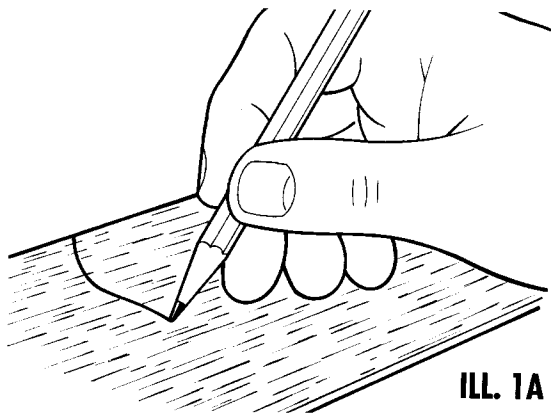
6. Remove sander cover from left side of headstock. Slide sanding table onto tool bed on the same side as the sanding disc. Do not press table against sanding disc — keep about 1/8" space between the two surfaces.



7. Connect the battery box to the tool beds by pushing tabs on box into slots on tool beds, then sliding to the left to secure in place. The battery box gives the assembly greater stability while operating.

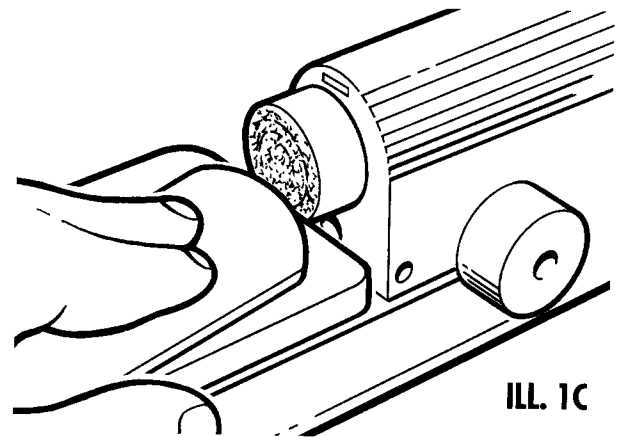
8. Connect plug on motor switch to battery box outlet. Be sure to connect the plug into the correct position. To operate, press motor switch to "ON" position.

# TO OPERATE JIGSAW / SANDER

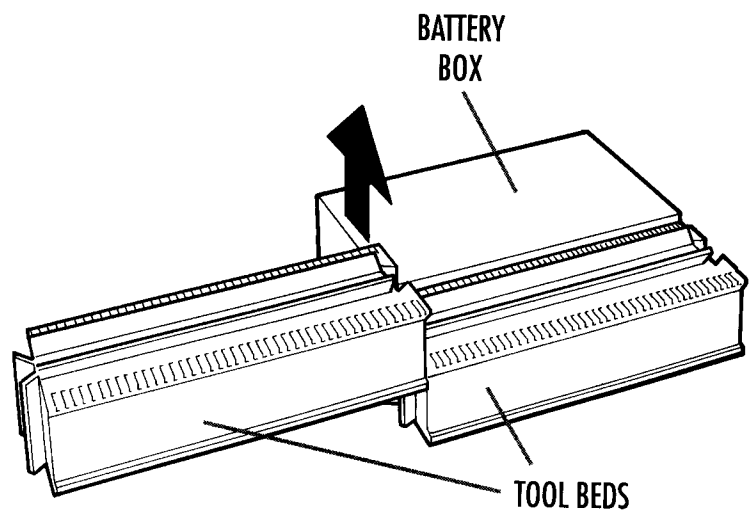
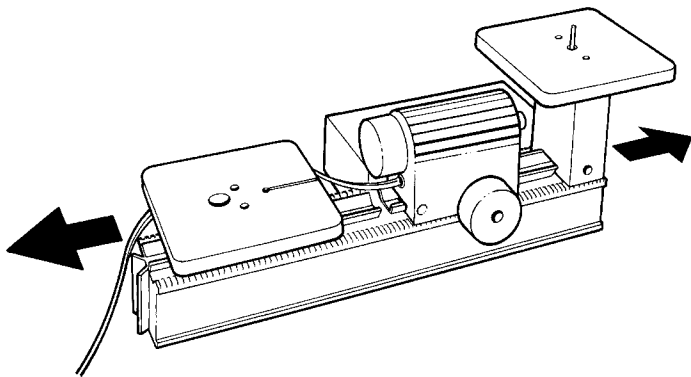


You are now ready to use the Real Power Toolshop. It is recommended that you wear safety goggles at all times when using machine. Use a pencil to mark your wood piece with the shape you want to cut (ILL. 1A). Hold the wood firmly down to the surface of the saw table and **slowly** feed it into the saw blade (ILL. 1B). Do not force wood into saw. If you meet resistance and the blade stops, back off the blade and start again. Work slowly and firmly, letting the saw do the work while you guide the wood. When making curve cuts, once again **slowly** feed the wood into the saw and avoid making sharp turns. Use the sanding disc to sand and smooth your cut design (ILL. 1C). Remember, practice makes perfect, so practice with wood scraps before undertaking a project. Before long, you'll be a pro!

(Note: When sanding disc becomes worn, simply peel off and replace with a new one. This set includes 1 extra sanding disc.)

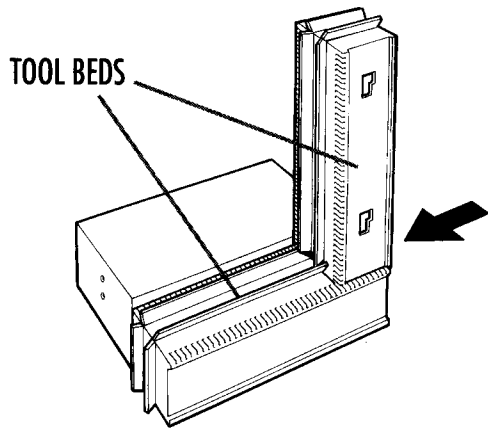


## DRILL PRESS ASSEMBLY

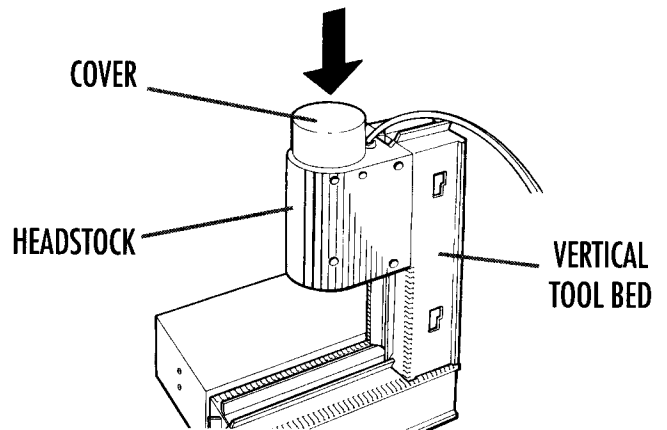


1. Starting from the jigsaw/sander assembly, remove all sections and disconnect plug from battery box. To remove the jigsaw and sander tools, you must loosen the screws located at the bottom of the sections.
2. Then take apart the two tool beds, leaving the one tool bed with the battery box as a base.

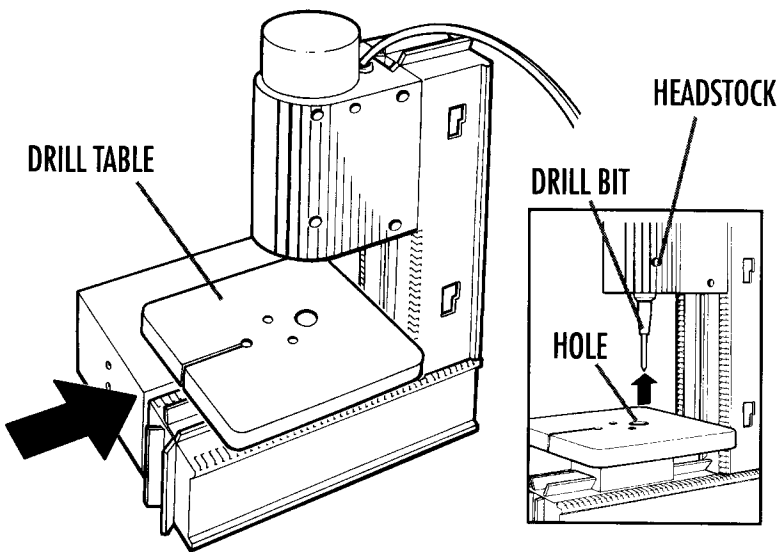
# DRILL PRESS ASSEMBLY (CONTINUED)



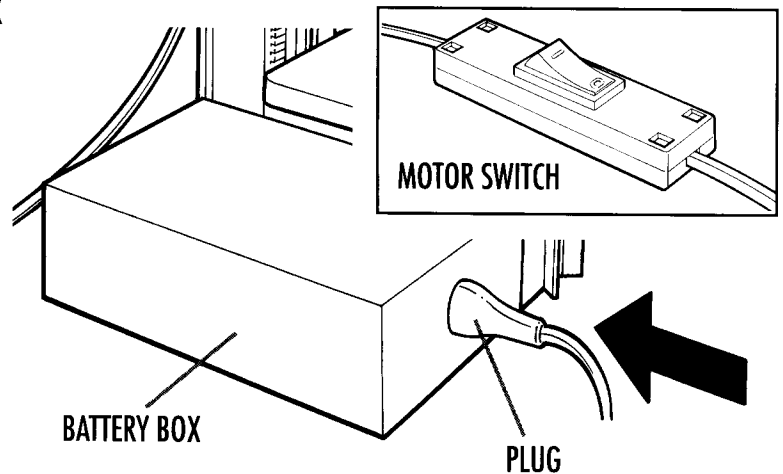
3. Slide the second tool bed onto top of bottom tool bed, connecting the beds into an "L" shape.



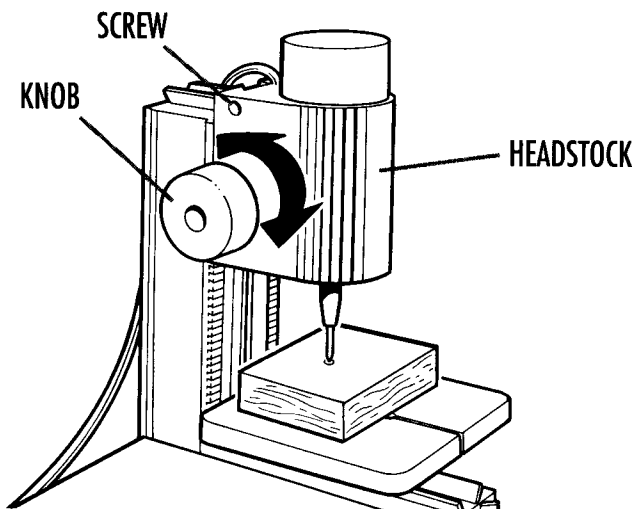
4. Place the protective cover over the sander tool, and remove the brass cam piece from the shaft on the other side. Slide the sander/headstock onto the vertical tool bed with sander tool on top, facing up.



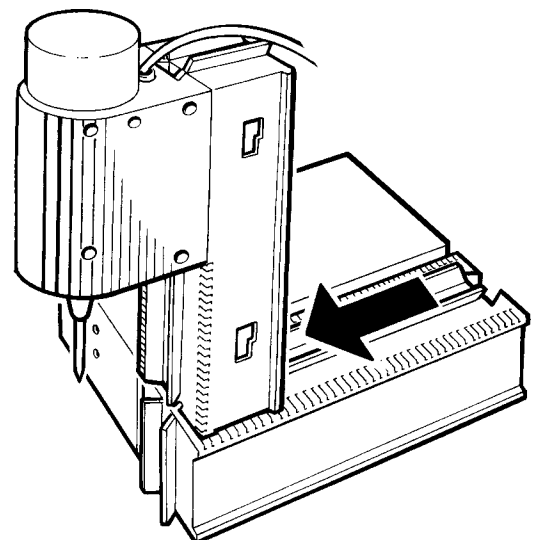
5. Slide drill table onto horizontal tool bed. Then securely attach drill bit to headstock shaft. Make sure that the hole in the table lines up with the drill bit as shown.



6. Connect plug on motor switch to battery box outlet and you're ready to go! To operate, press motor switch to "ON" position.

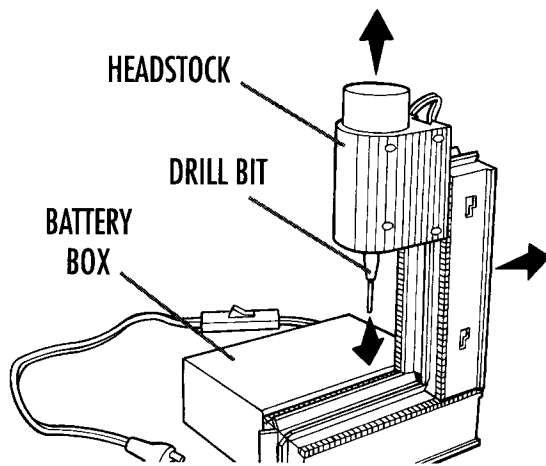


7. Simply turn the knob to raise or lower the drill bit. Do not tighten screw on headstock assembly.

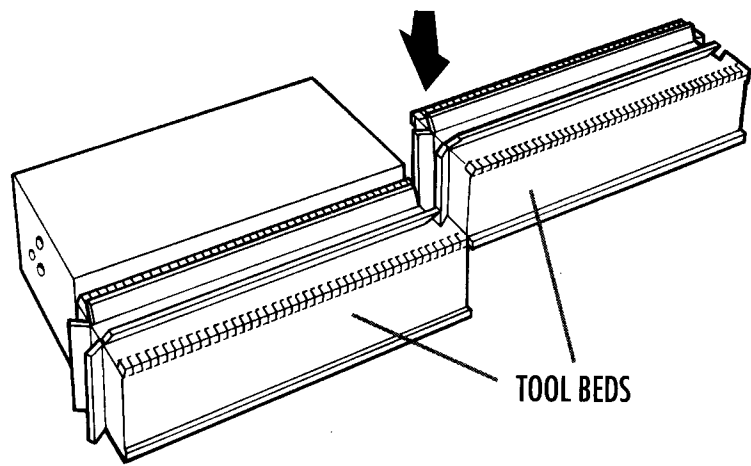


8. When wood pieces are too big for the regular set-up, you may remove table and reverse the "L" set-up as shown.

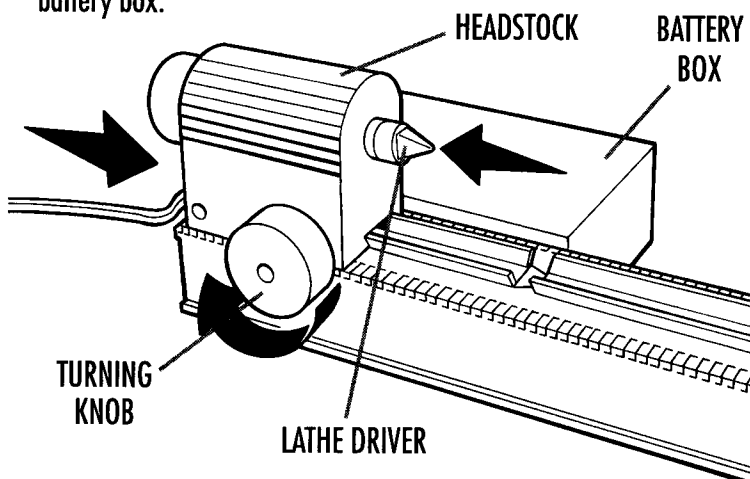
# WOOD LATHE ASSEMBLY



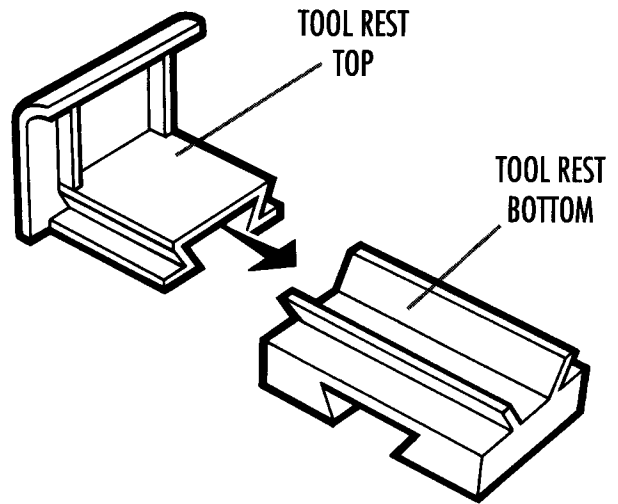
1. Starting from the drill assembly, remove the drill bit from the headstock, then remove all other sections as shown. Leave the tool bed with battery box as a building base. Disconnect plug from battery box.



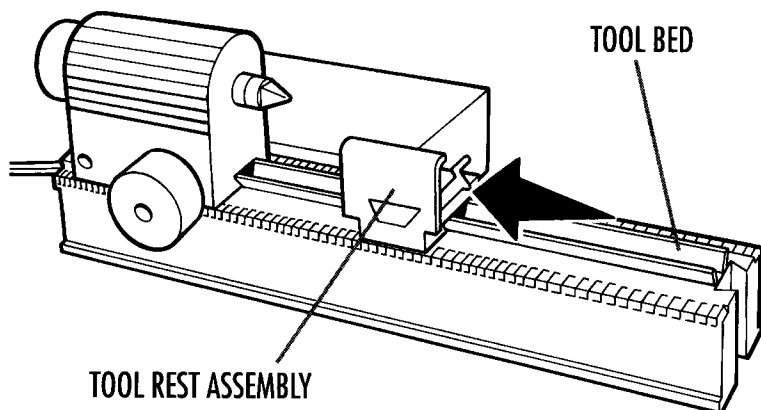
2. Connect the second tool bed to the first tool bed horizontally as shown.



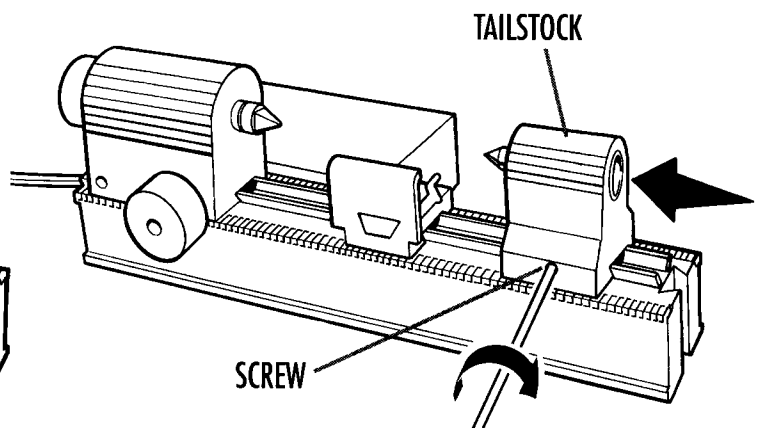
3. Slide headstock onto left side of tool bed assembly, with the turning knob on the opposite side of the battery box. Attach lathe driver to headstock shaft.



4. Slide top of tool rest onto bottom cross piece.



5. Then slide tool rest assembly onto right side of tool bed, with the assembly facing frontwards as shown.

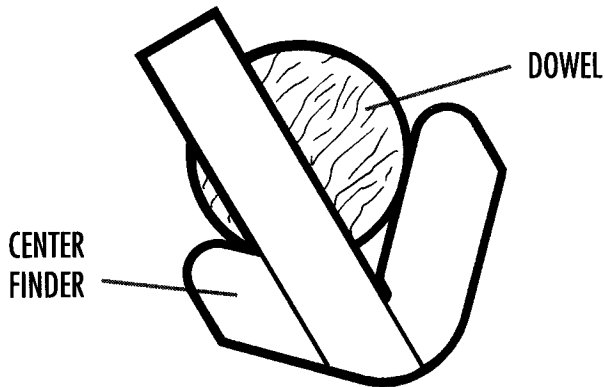


6. Attach the tailstock to the far right side of the tool bed as shown and use the screwdriver to tighten the bottom screw and secure the tailstock in place. To operate, press motor switch to the "ON" position.

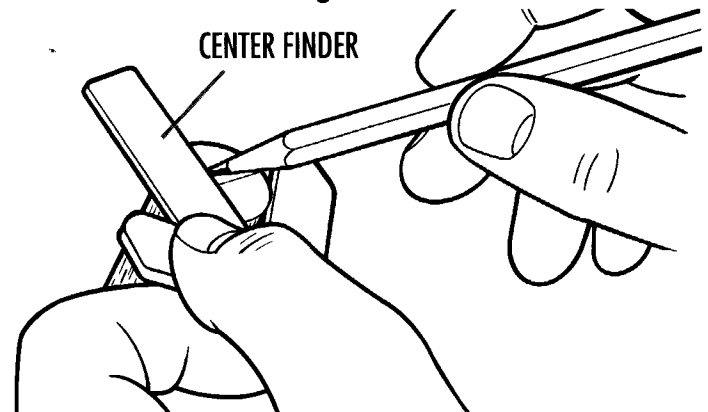


# TO OPERATE WOOD LATHE

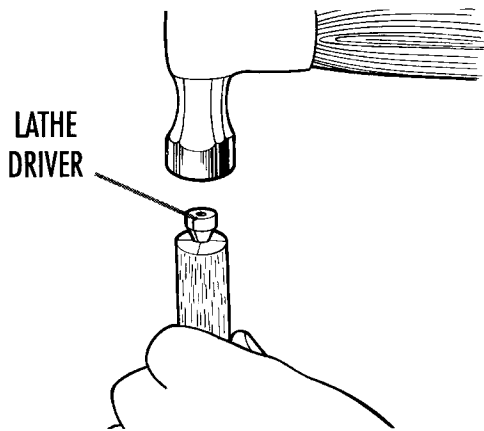
You are now ready to use the wood lathe. You can turn either a squared wood piece or rounded dowel. Again, it is recommended that you wear safety goggles at all times when using machine.



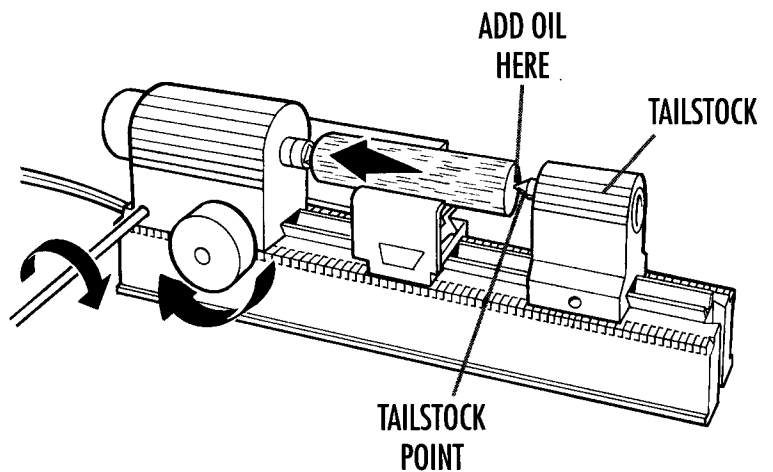
1. To locate the center of a squared piece or rounded dowel, place the flat end of the wood in the center finder gauge as shown, pressing the edges of the wood against the sides of the gauge.



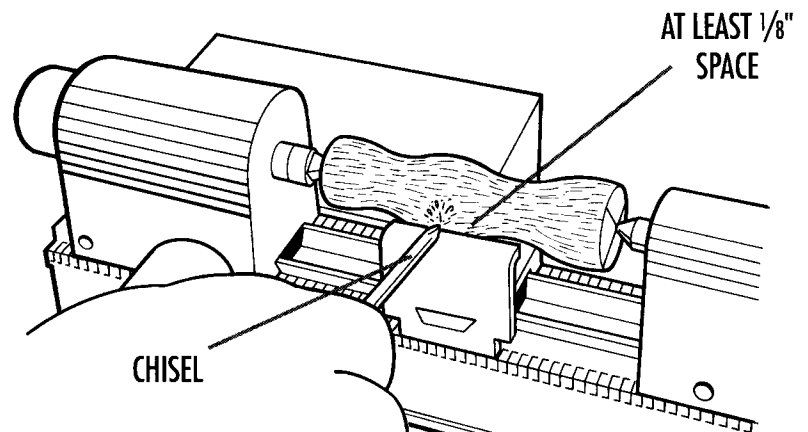
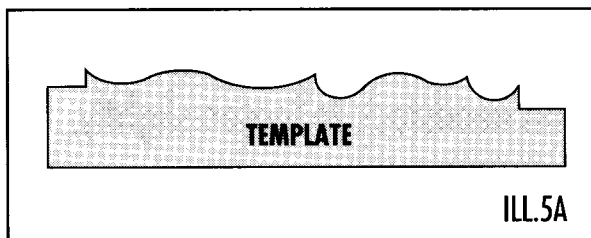
2. Draw a line across the flat end of the wood against the cross slide of the finder as shown. Turn 90° and repeat to find center.



3. Remove the lathe driver from the headstock shaft and hammer the driver into the located center hole at one end of wood piece. Replace driver (with wood piece) on headstock shaft.



4. Turn knob to connect the headstock and wood to the tailstock, placing the tailstock point into the located center hole in the wood. For best results, put a couple of drops of household oil (non-petroleum based) on the tailstock.



5. Check to make sure that there is at least 1/8" between wood and tool rest. Choose a pattern or design for turning the wood; make a template (ILL. 5A) for the design you want to make. Turn on the motor switch and rest the turning chisel against the tool rest so that it barely touches the wood piece. The arched curve of the chisel should be facing up. **Feed the chisel into the wood very slowly**, carving your design into the wood. Once again, practice with scrap wood before starting a project. After a while, you will become very skilled at carving the turning wood. 9

# TROUBLESHOOTING

## 1. **When you turn on the switch, nothing happens . . .**

Check to see that motor is properly connected to battery box. If there is still no operation, check batteries to see if they are positioned correctly or if they need replacement.

## 2. **Jigsaw does not cut . . .**

You are probably pushing the wood too hard against the blade. Pull wood back, and then lightly re-insert the wood into the saw blade, using slow, even pressure to cut.

## 3. **Jigsaw does not operate but sander does . . .**

Lift up the jigsaw tip. Push saw base **firmly** against the brass cam piece. Release jigsaw tip and try again.

## 4. **Drill does not cut . . .**

You are probably exerting too much pressure on the drill. Turn knob to pull drill bit back up, and then try again, using slow, even pressure to cut.

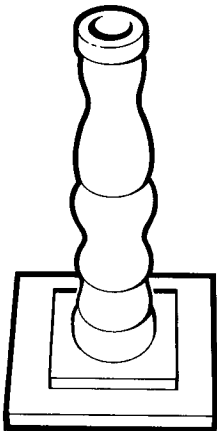
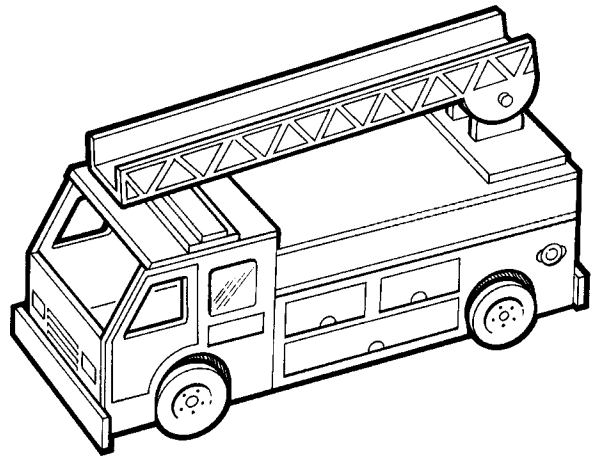
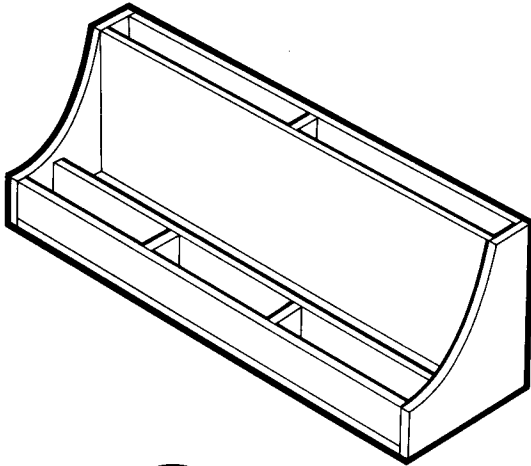
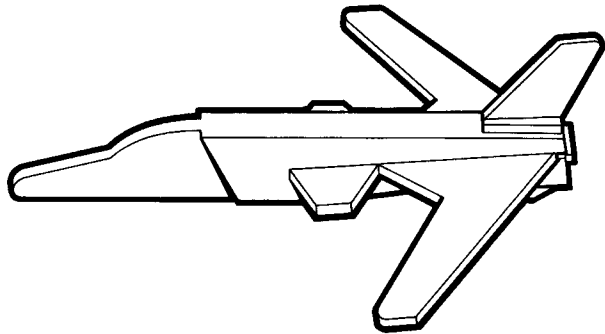
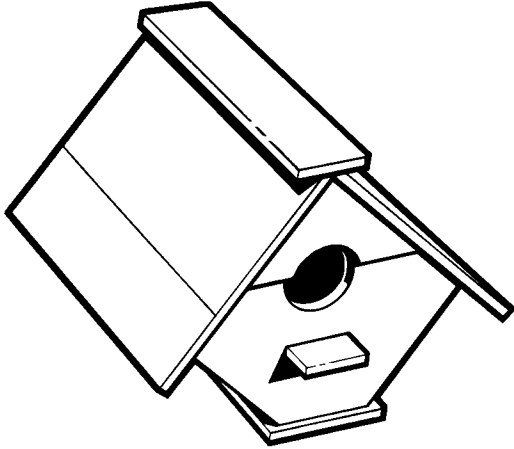
## 5. **Wood lathe does not turn . . .**

Turn power off and add a few drops of household oil (non-petroleum based) to the tailstock as directed above. If wood still does not turn, the wood may be placed too tightly between headstock and tailstock. Turn knob on headstock to loosen slightly, and try again.

## 6. **Headstock, tailstock or jigsaw do not move easily along tool bed . . .**

Loosen the screw at the base of the piece.

# PROJECT PLANS



**REAL  
FUN**

# ALPHABET CUT OUT LETTERS

Cut out letter shapes below, trace onto wood, and use the jigsaw to cut out the pieces.

A B C D E F

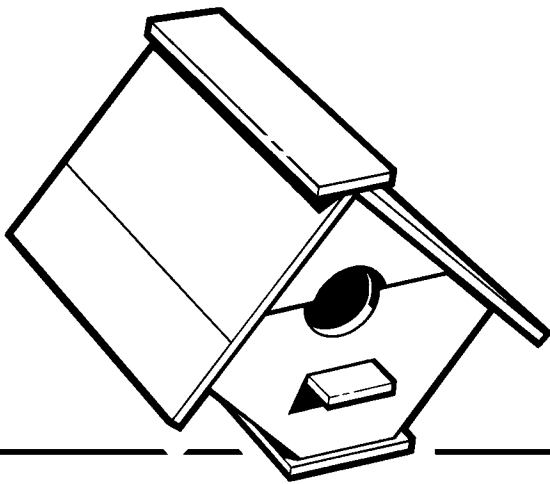
G H I J K L

M N O P Q

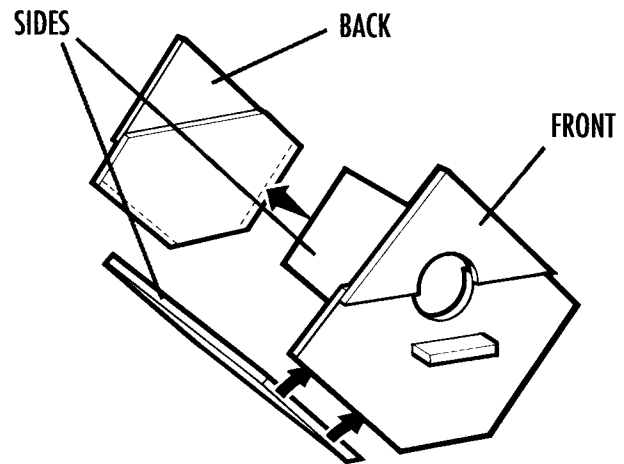
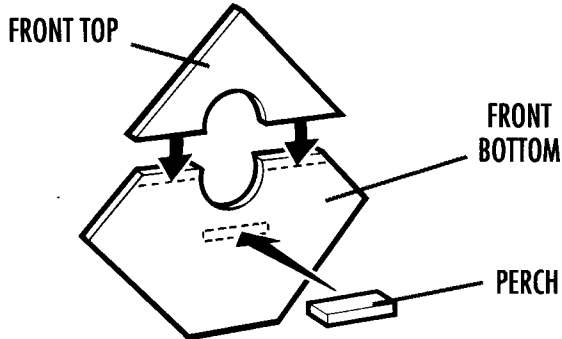
R S T U V

W X Y Z

# BIRDHOUSE ASSEMBLY

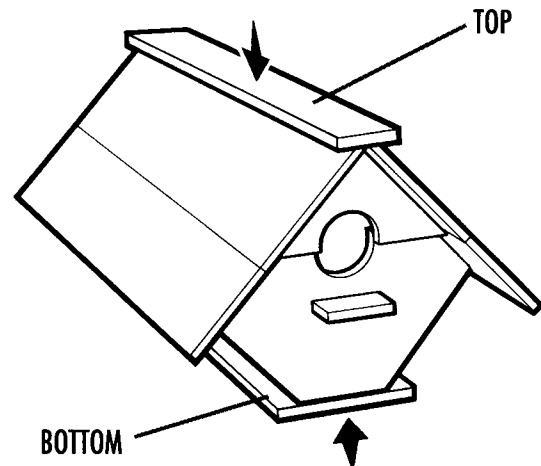
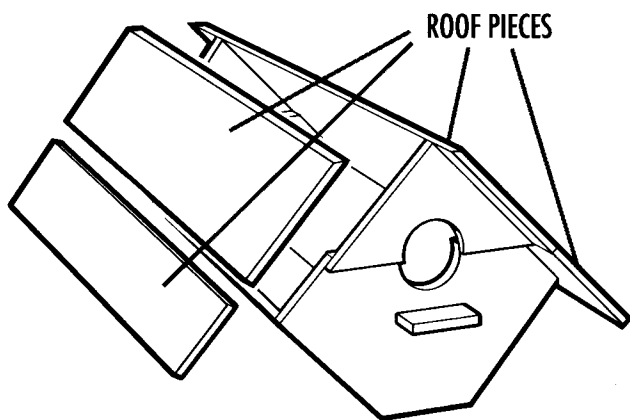


Cut out shapes on the following pages, trace onto wood, and use the jigsaw to cut out the pieces. Draw the dotted lines on wood as indicated.



1. **TO MAKE THE BIRDHOUSE HOLE:** Take the two pieces of the birdhouse FRONT, line them up as they will be assembled, and trace an outline of the bird hole with  $\frac{1}{2}$  of the hole on the top piece and  $\frac{1}{2}$  on the bottom piece. Cut out the bird hole with the jigsaw, then use **ELMER'S WOOD GLUE** (not included) to glue the two pieces of the birdhouse FRONT together. Place PERCH  $\frac{1}{2}$ " below hole in birdhouse front.

2. Glue the two BACK pieces together as shown. Glue SIDE pieces even with FRONT, then glue the BACK piece even with the SIDES as shown.

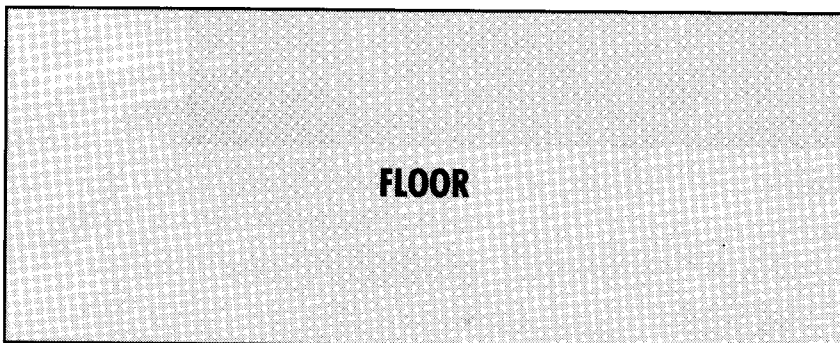
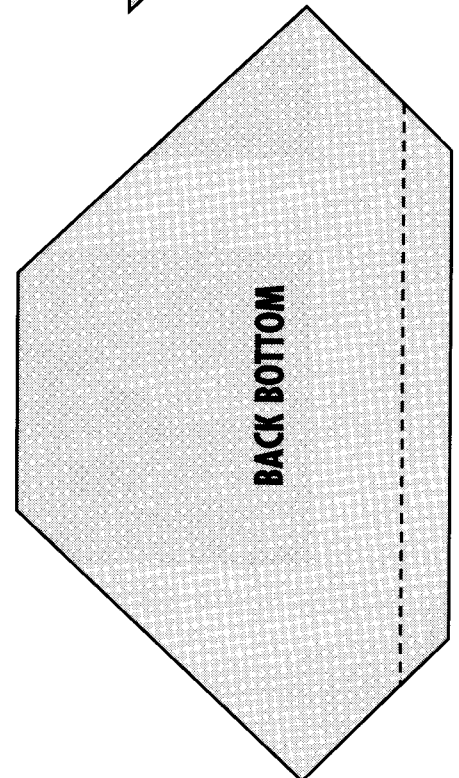
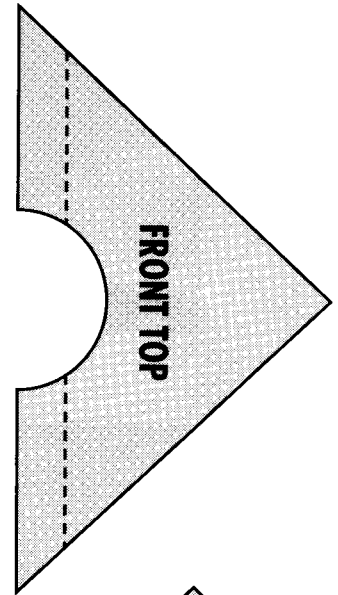
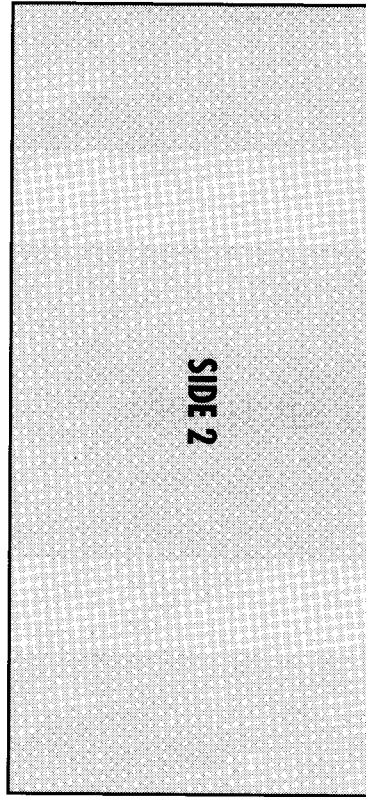
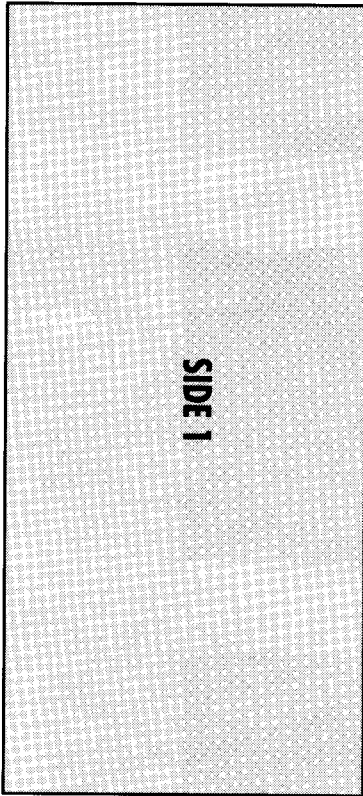
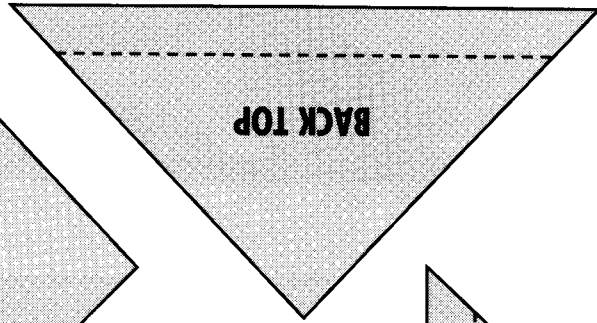
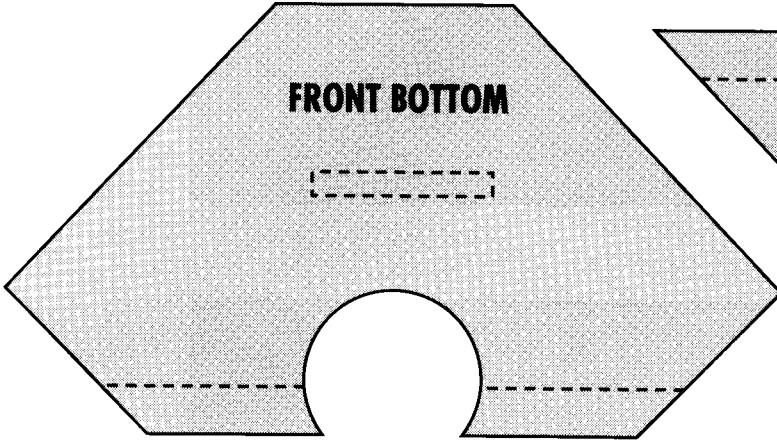
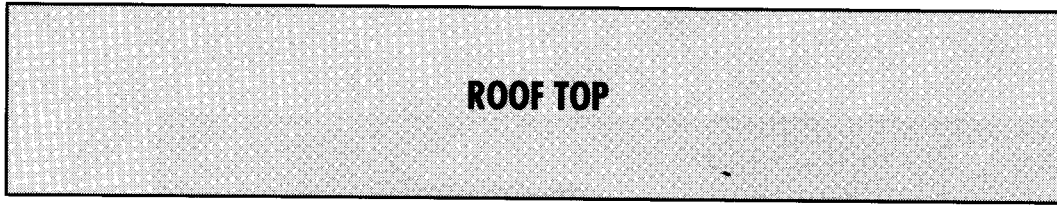


3. Glue 4 ROOF pieces onto assembly so that they hang over the FRONT and BACK as in drawing at top of page. The two top pieces should meet at the TOP as shown.

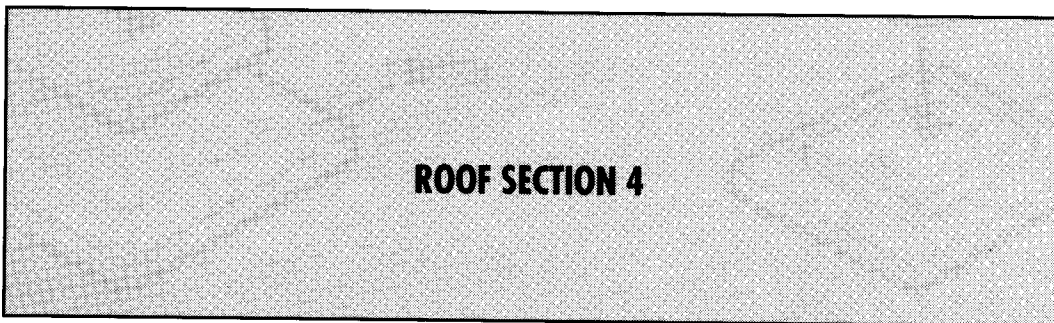
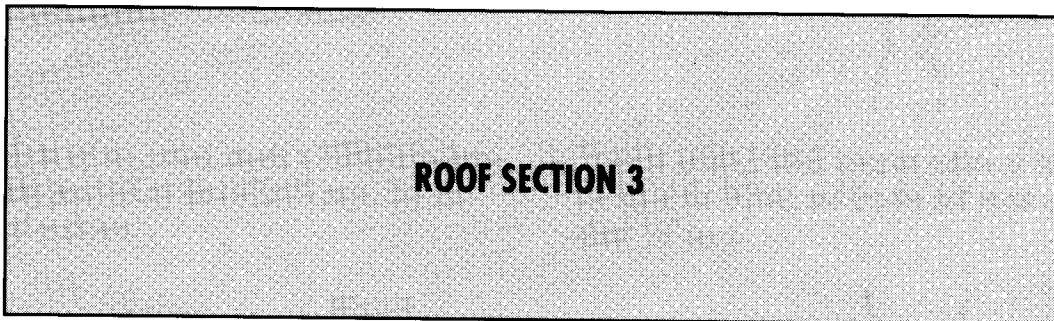
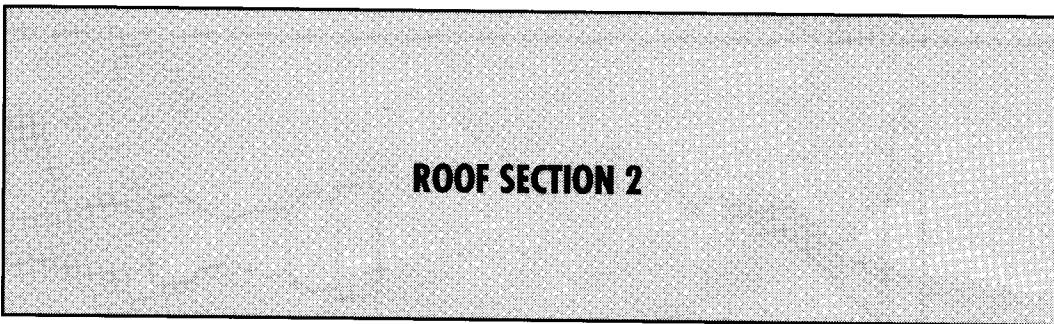
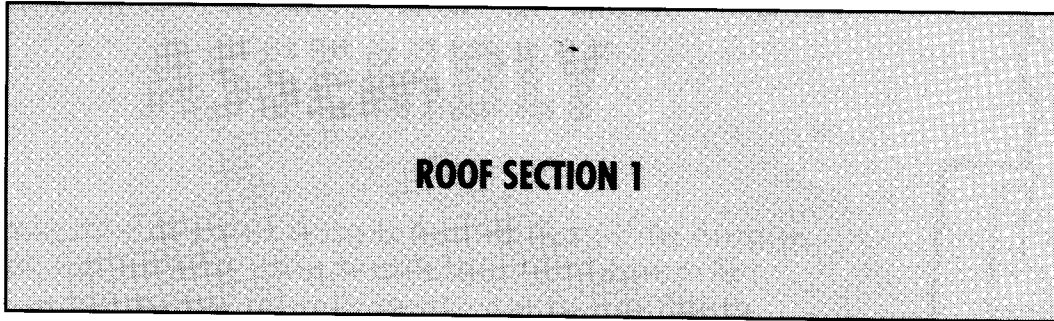
4. Glue BOTTOM piece onto assembly, placing it as illustrated, even with the BACK and FRONT. Finally, glue TOP piece on top of house as shown.

The finished house should look like the drawing at the top of the page. If it does, great job!  
If you decide to paint your finished birdhouse, be sure to use no-lead, nontoxic paint.

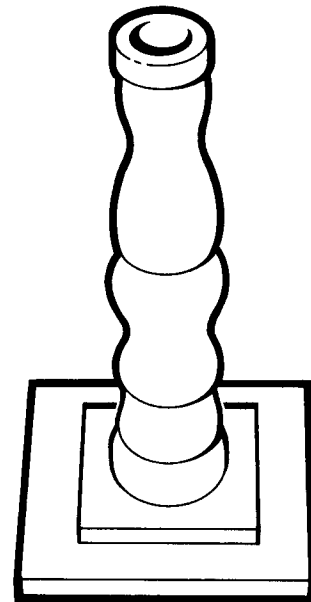
# BIRDHOUSE CUTOUTS (Page 1 of 2)



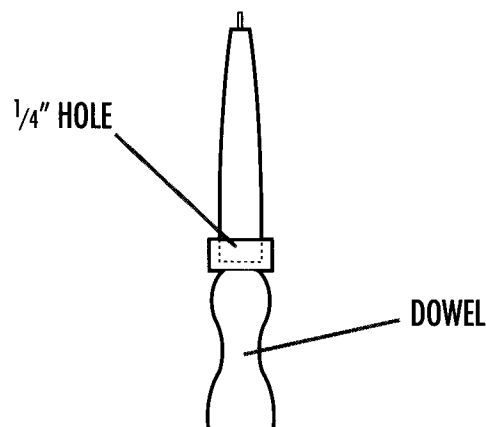
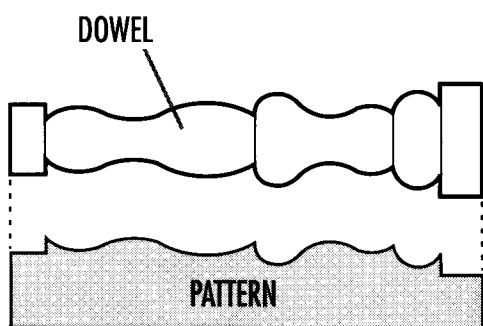
# **BIRDHOUSE CUTOUTS (Page 2 of 2)**



# CANDLE HOLDER ASSEMBLY

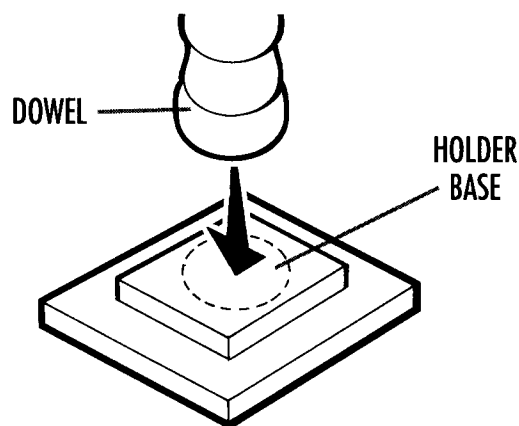
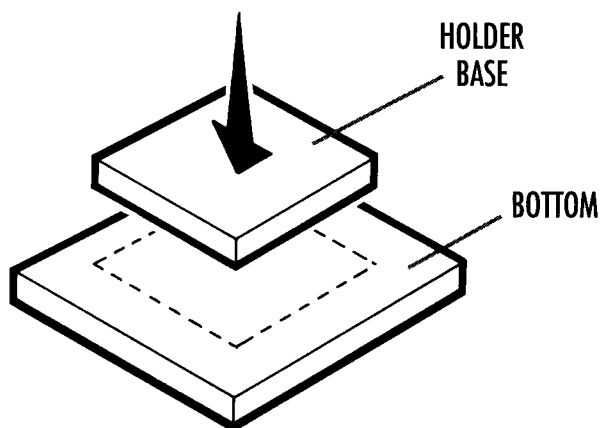


The challenging part of this project is carving the dowel with the wood lathe. Practice on the lathe with scrap wood before making the candle holder. Cut out shapes on the following page, trace onto wood, and use the jigsaw to cut out the pieces. Draw the dotted lines on wood as indicated.



1. When you are ready to try this project, create a **PATTERN** for lathe cutting or use the one provided on the **CUTOUTS** page. Use the lathe to carve dowel as shown.

2. **TO MAKE CANDLE HOLE:** Trace an outline of the candle **HOLE** onto the top of the **DOWEL** and use the drill to cut out a recess about  $\frac{1}{4}$ " deep.



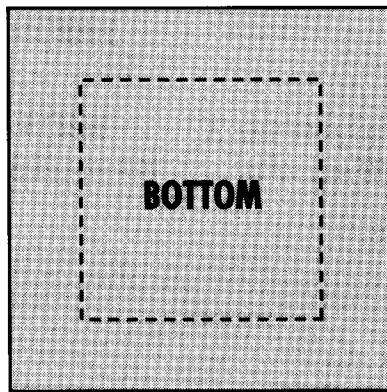
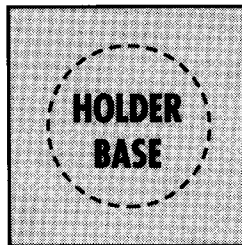
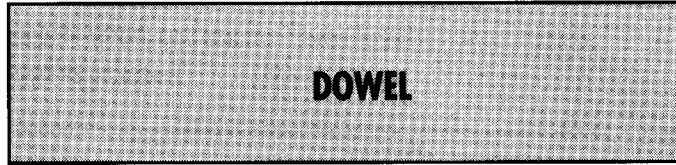
3. Use **ELMER'S WOOD GLUE** (not included) to center and glue the **HOLDER BASE** onto the **BOTTOM** piece as shown.

4. Center and glue the carved **DOWEL** onto the **HOLDER BASE**.

The finished candle holder should look like the drawing at the top of the page. If it does, great job!  
You may paint or glaze your finished holder as desired. (Paint and glaze not included)

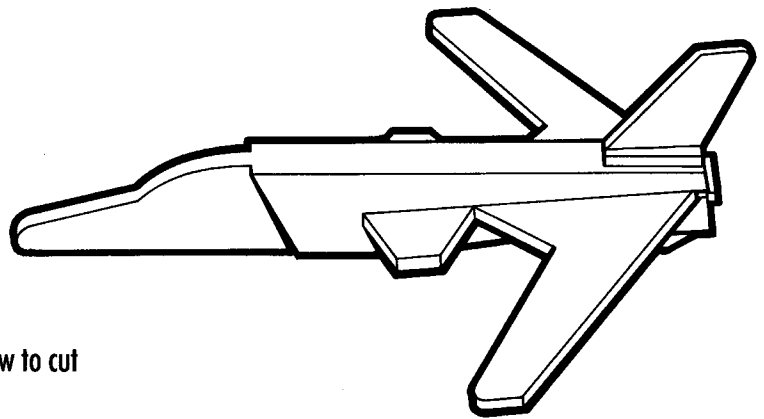


# CANDLE HOLDER CUTOUTS

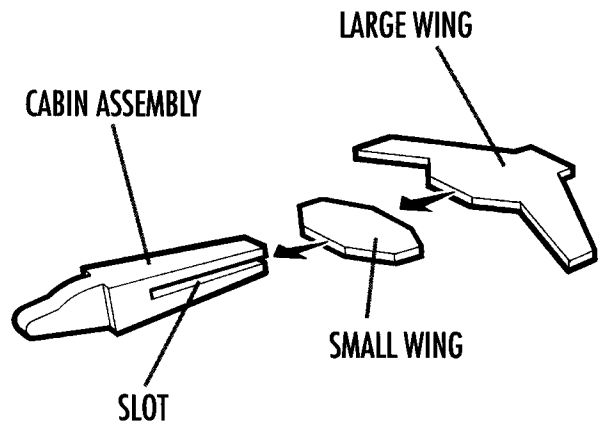
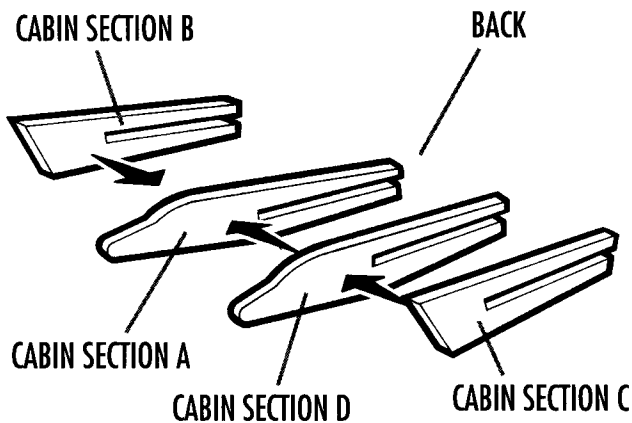


You may use this pattern for  
lathe cutting, or create your own.

# AIRPLANE ASSEMBLY

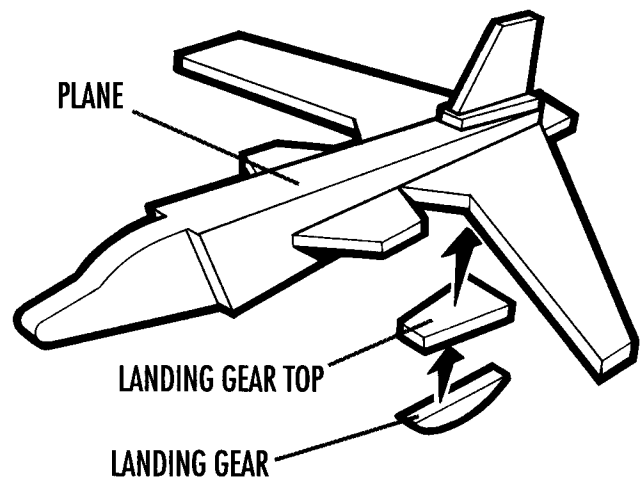
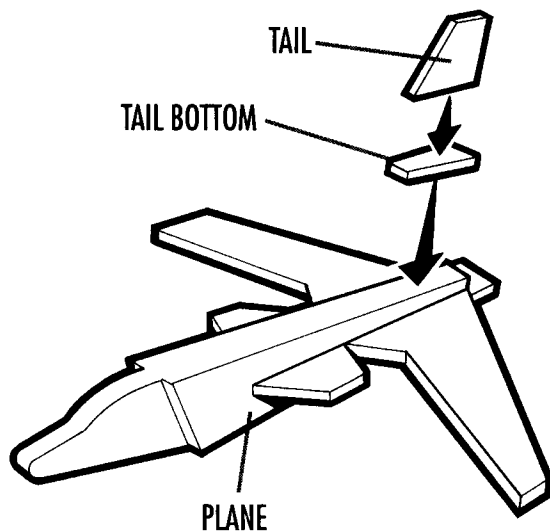


Cut out shapes on the following page, trace onto wood, and use the jigsaw to cut out the pieces. Draw the dotted lines on wood as indicated.



1. Use ELMER'S WOOD GLUE (not included) to glue the 4 CABIN SECTIONS (A), (B), (C) and (D) together as shown. Make sure that (B) and (C) are on outside as indicated.

2. Slide and glue the SMALL WING section and then the LARGE WING section into the slot in the CABIN ASSEMBLY as shown.

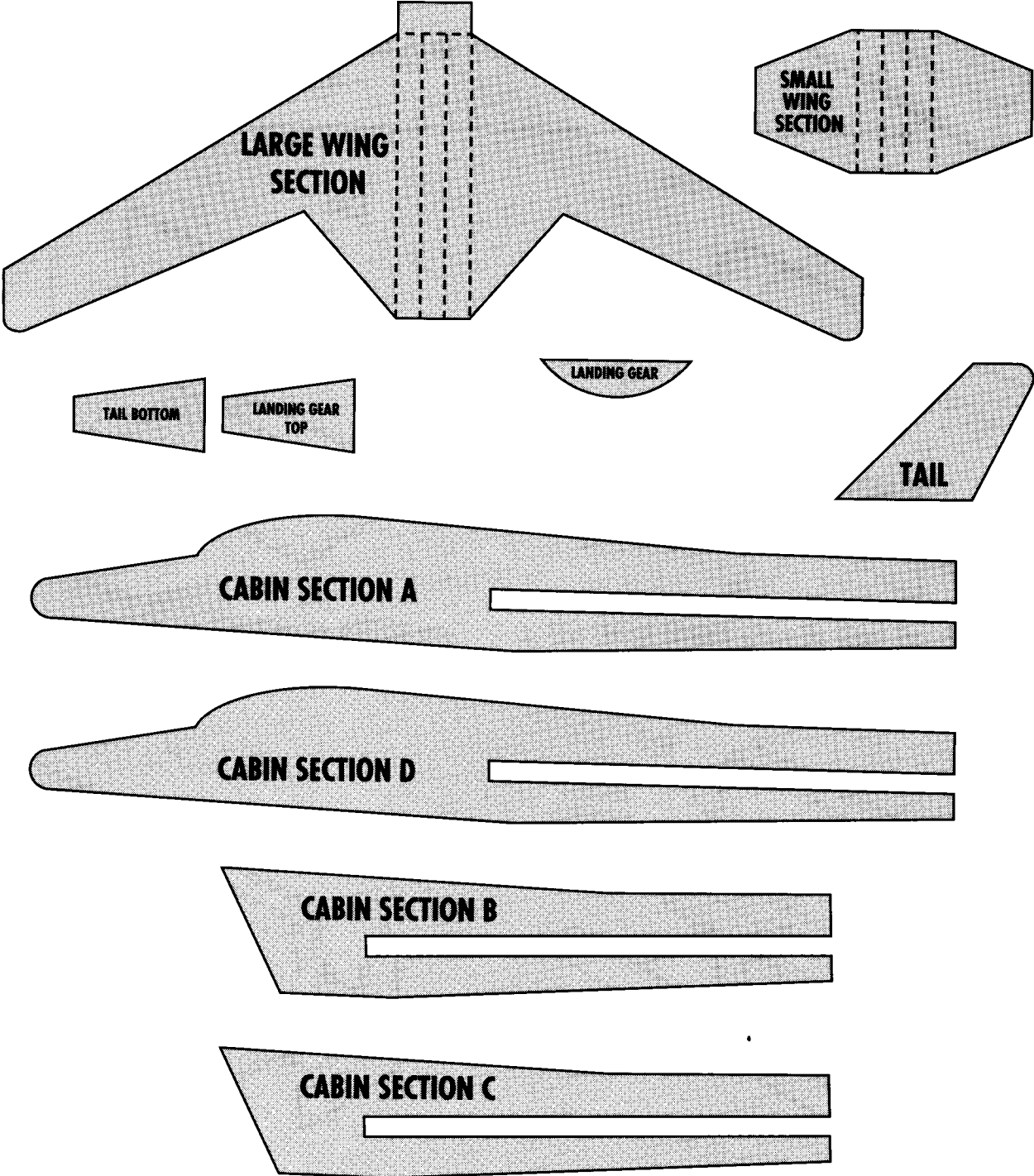


3. Glue TAIL and TAIL BOTTOM together, then glue TAIL ASSEMBLY to top of plane as shown.

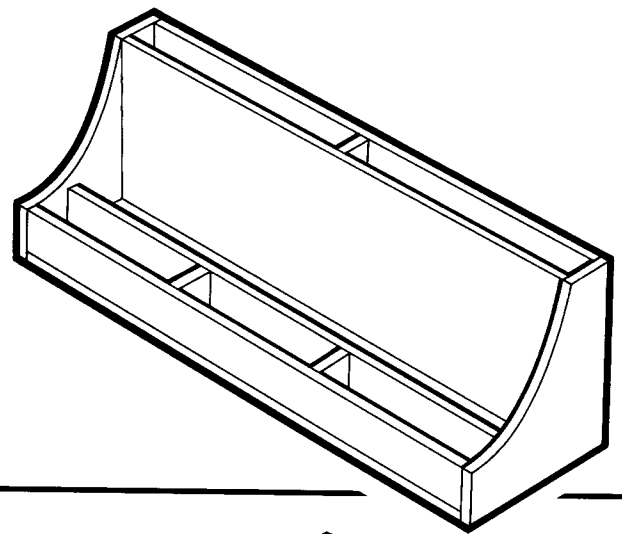
4. Glue LANDING GEAR and LANDING GEAR TOP together, then glue LANDING GEAR ASSEMBLY to bottom of plane as shown.

The finished airplane should look like the drawing at the top of the page. If it does, great job!  
You may paint or glaze your finished airplane as desired. (Paint and glaze not included.)

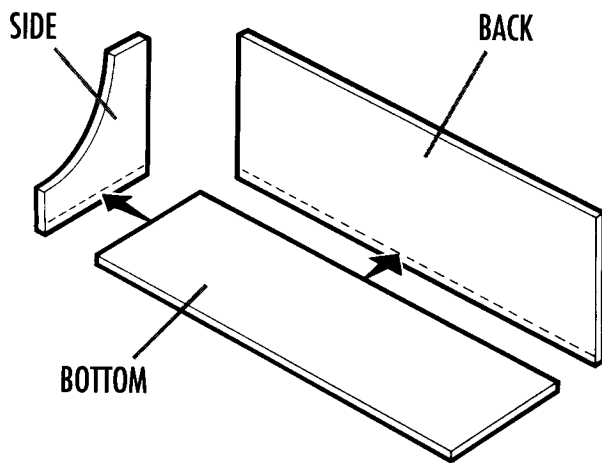
# AIRPLANE CUTOUTS



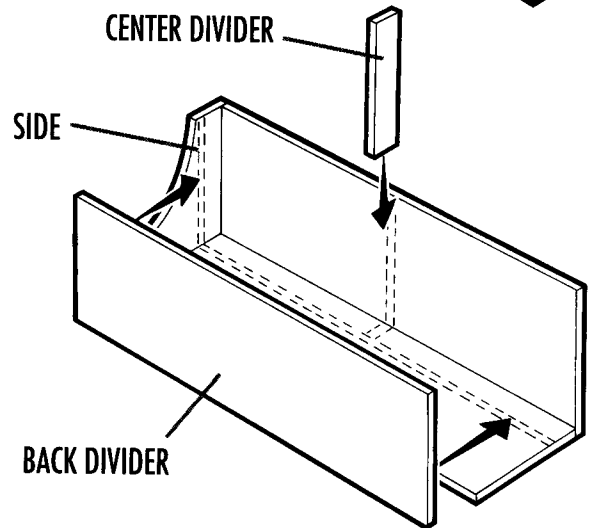
# DESK TRAY ASSEMBLY



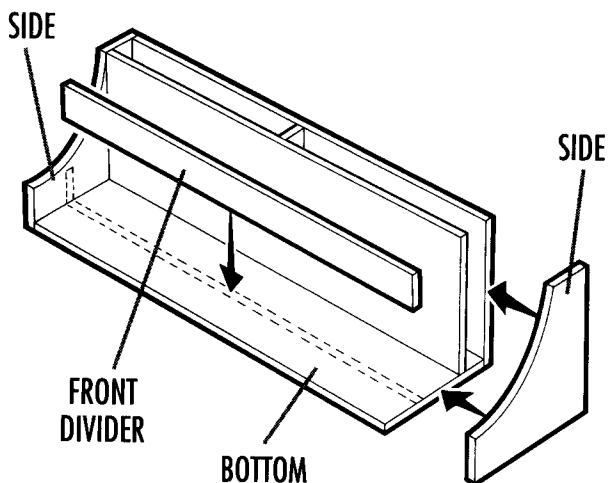
Cut out shapes on the following page, trace onto wood, and use the jigsaw to cut out the pieces. Draw the dotted lines on wood as indicated.



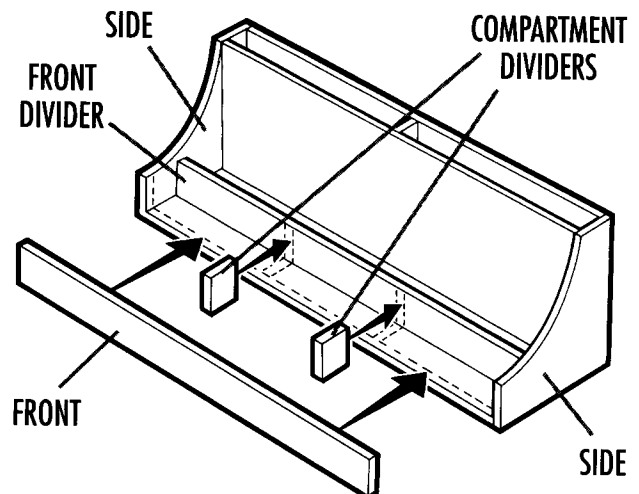
1. Use ELMER'S WOOD GLUE (not included) to glue **BOTTOM** onto **BACK** as shown. Then glue the first **SIDE** onto the edges of the **BOTTOM** and **BACK** pieces.



2. Glue **CENTER DIVIDER** where the dotted lines of **BACK** and **BOTTOM** pieces meet. Glue **BACK DIVIDER** to the **BOTTOM**, the **SIDE**, and the **CENTER DIVIDER** as shown.



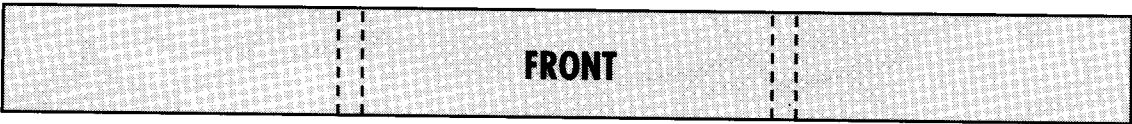
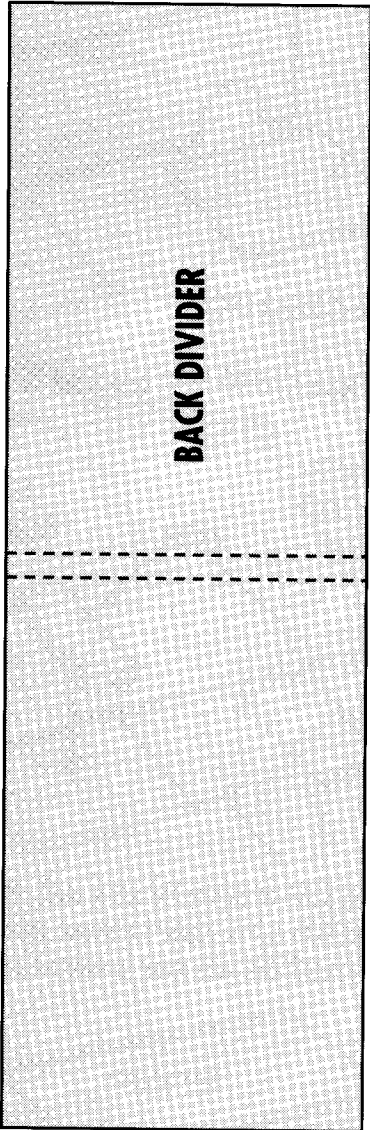
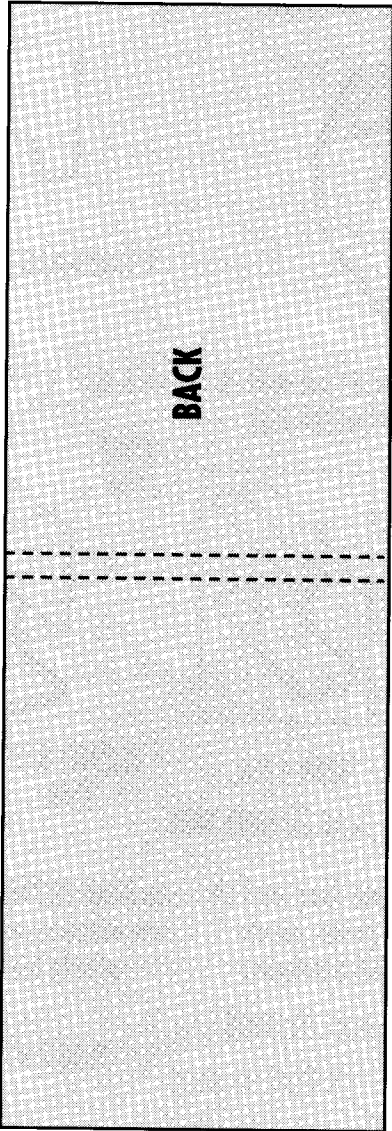
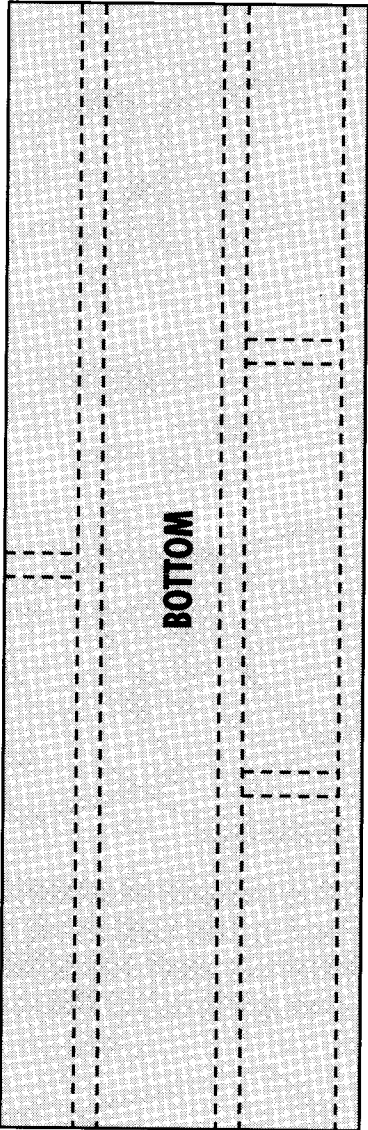
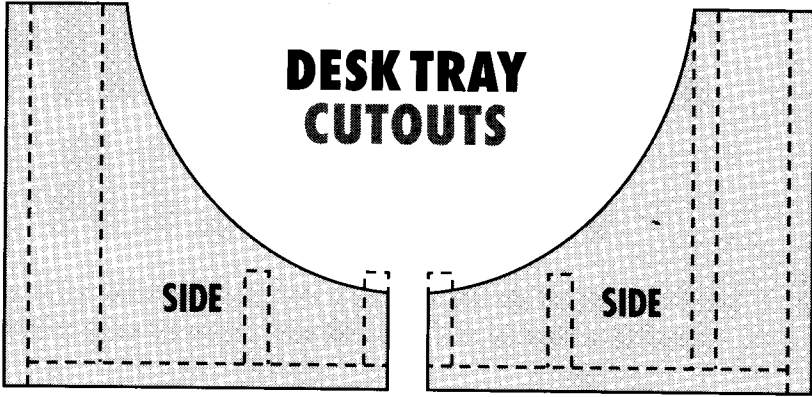
3. Glue **FRONT DIVIDER** to **BOTTOM** and **SIDE**, along dotted lines. Glue the second **SIDE** to open side of tray in the same position as the first **SIDE**.



4. Glue the **COMPARTMENT DIVIDERS** along the dotted lines on the **BOTTOM** and **FRONT DIVIDER**. Finally, glue the **FRONT** piece to the **BOTTOM** and both **SIDES**, and you're finished!

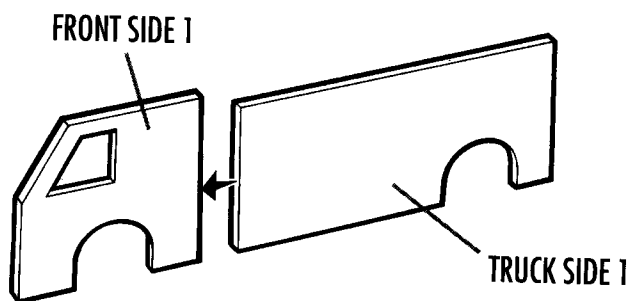
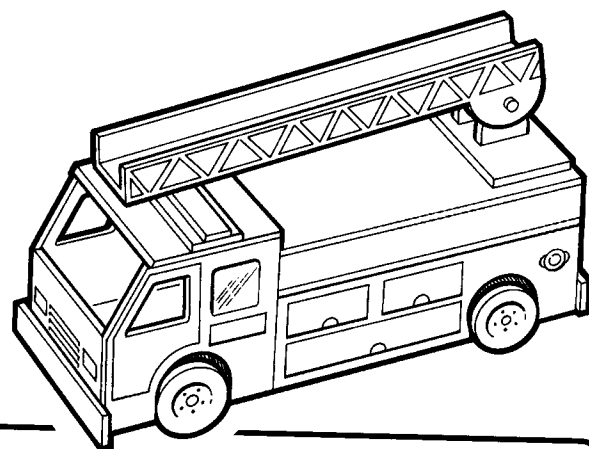
In all, the desk tray has 6 compartments for storing pencils, markers, note paper and other supplies. The finished tray should look like the drawing at the top of the page. If it does, great job! You may paint or glaze your finished tray as desired. (Paint and glaze not included.)

# DESK TRAY CUTOUPS

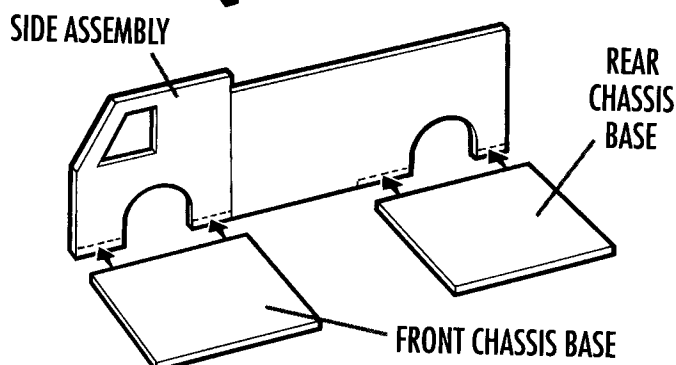


# FIRETRUCK ASSEMBLY

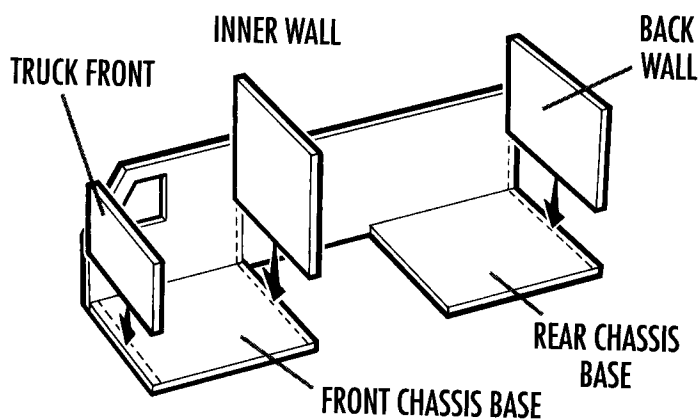
Cut out shapes on the following pages, trace onto wood, and use the jigsaw, drill and sander as needed to make the pieces. Draw the dotted lines on wood as indicated.



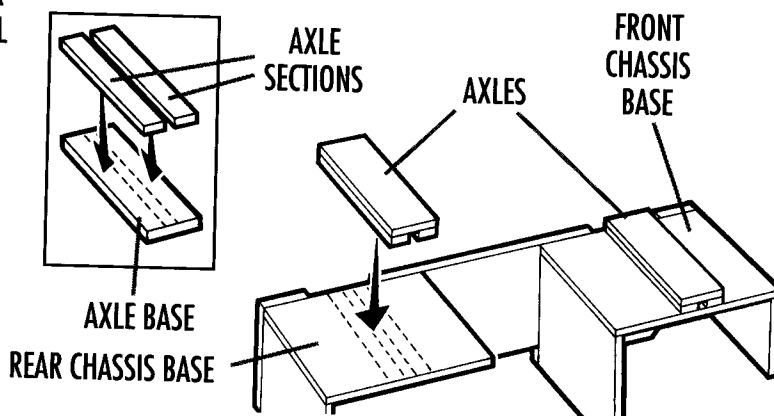
1. Use **ELMER'S WOOD GLUE** (not included) to glue **TRUCK SIDE 1** to **FRONT SIDE 1**.



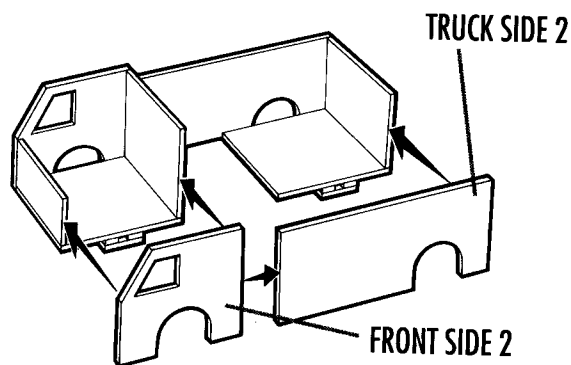
2. Glue the **FRONT CHASSIS BASE** and **REAR CHASSIS BASE** to the **SIDE ASSEMBLY** as shown.



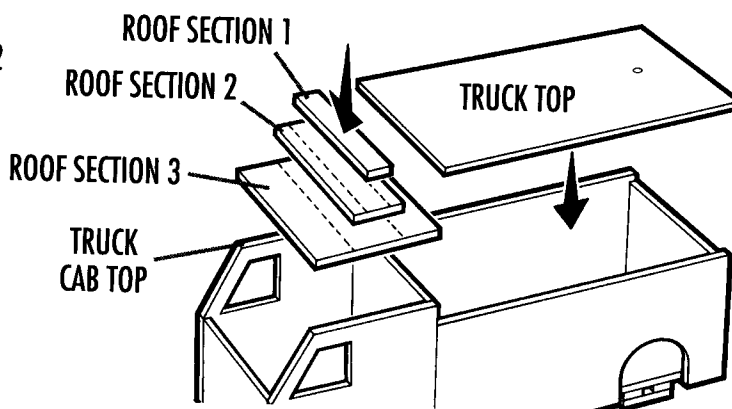
3. Glue **TRUCK FRONT** to the dotted lines on **FRONT CHASSIS BASE** as shown. Then glue the **INNER WALL** to dotted lines on opposite end of **FRONT CHASSIS BASE**. Finally, take **BACK WALL** and glue to dotted lines on **REAR CHASSIS BASE** as shown.



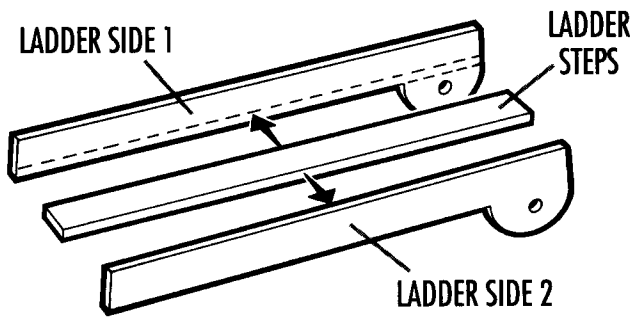
4. Turn truck upside down. Glue **AXLE SECTIONS** to **AXLE BASE** as shown, along dotted lines, leaving a space in the middle. Glue the completed **AXLES** to the bottom of each **CHASSIS BASE** as shown.



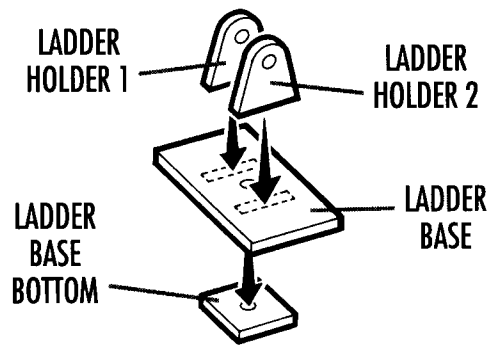
5. Turn truck right side up. Glue **TRUCK SIDE 2** and **FRONT SIDE 2** to the open side of firetruck assembly as shown.



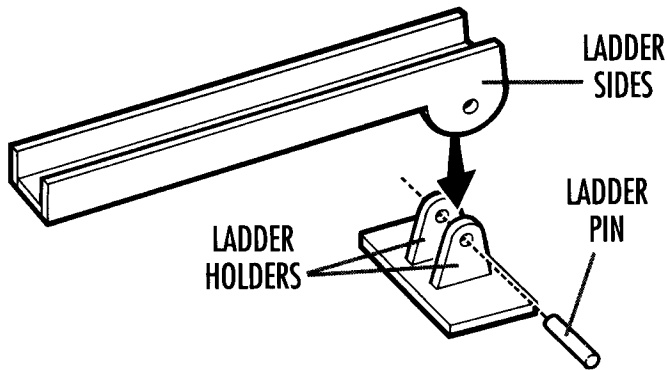
6. Glue **ROOF SECTIONS 1, 2, and 3** together, then attach to **TRUCK CAB TOP** as shown. Glue **TRUCK TOP** to top of fire truck assembly.



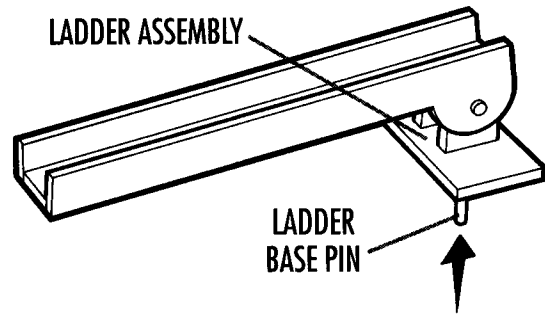
7. To assemble ladder, glue LADDER SIDE 1 to LADDER STEPS, then glue LADDER SIDE 2 to other side as shown.



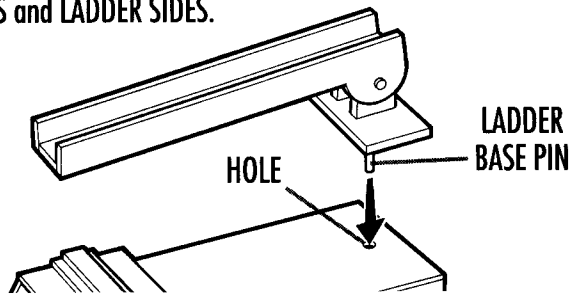
8. Glue LADDER HOLDER 1 and LADDER HOLDER 2 to LADDER BASE along dotted lines. Then glue the LADDER BASE BOTTOM underneath as shown.



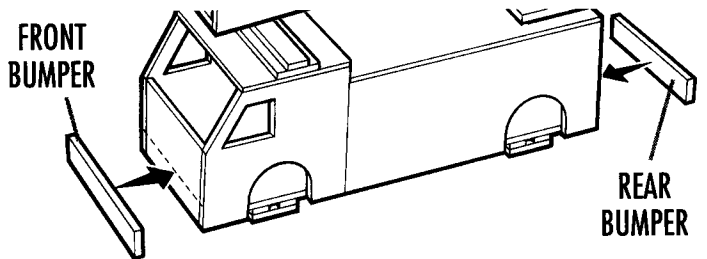
9. Take the piece for the LADDER PIN and use the sander to make round. Insert LADDER PIN through the holes in the LADDER HOLDERS and LADDER SIDES.



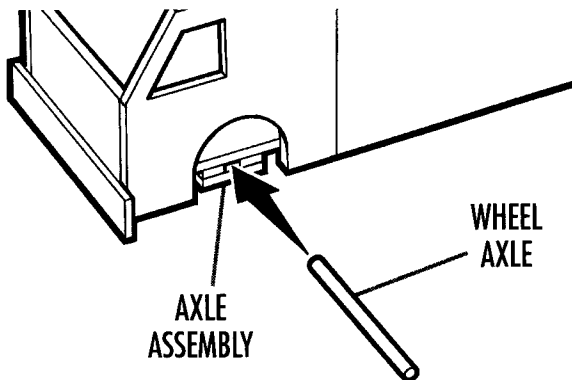
10. Take the piece for the LADDER BASE PIN and use the sander to make round. Insert and glue LADDER BASE PIN through the hole in the LADDER ASSEMBLY.



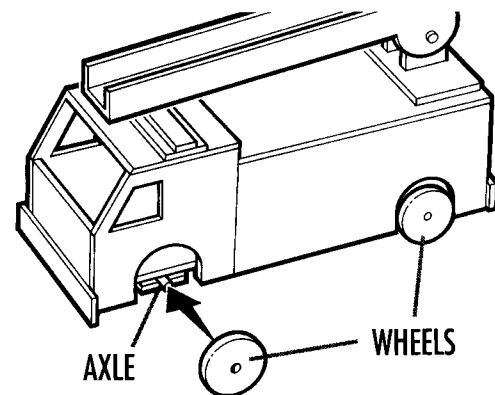
11. Place LADDER BASE PIN in the corresponding HOLE in the top of the firetruck. This should hold the ladder in place on the truck.



12. Glue the FRONT BUMPER to the front of the truck and the BACK BUMPER to the back of the truck.



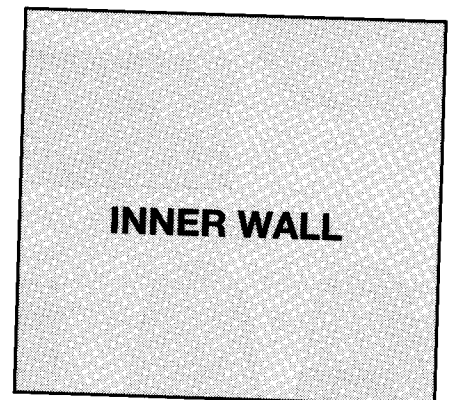
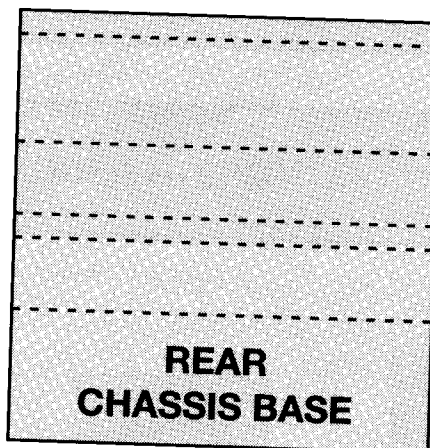
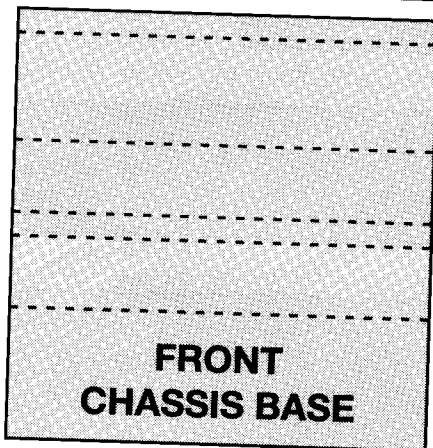
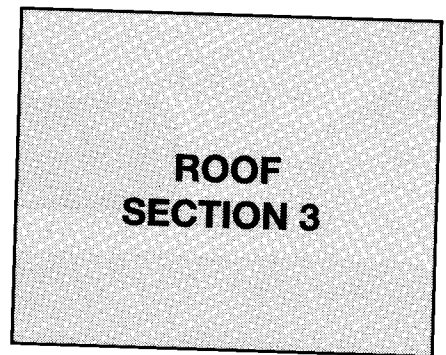
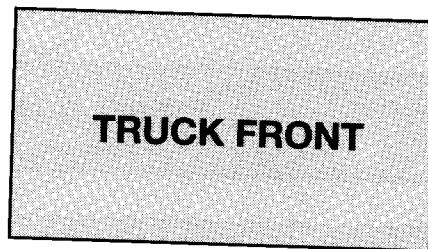
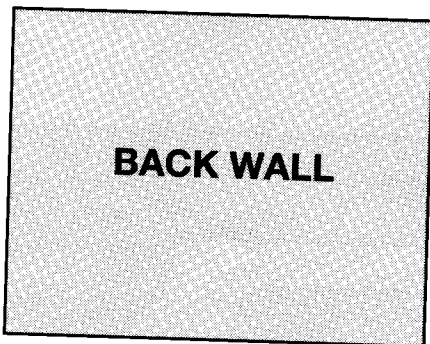
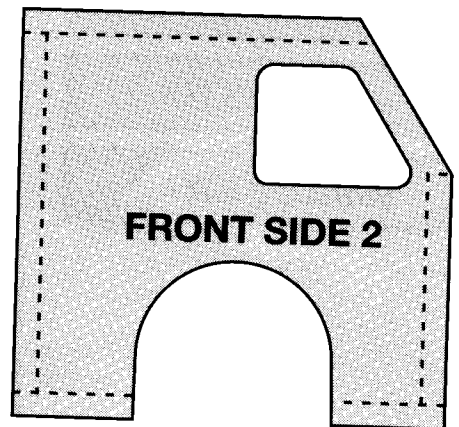
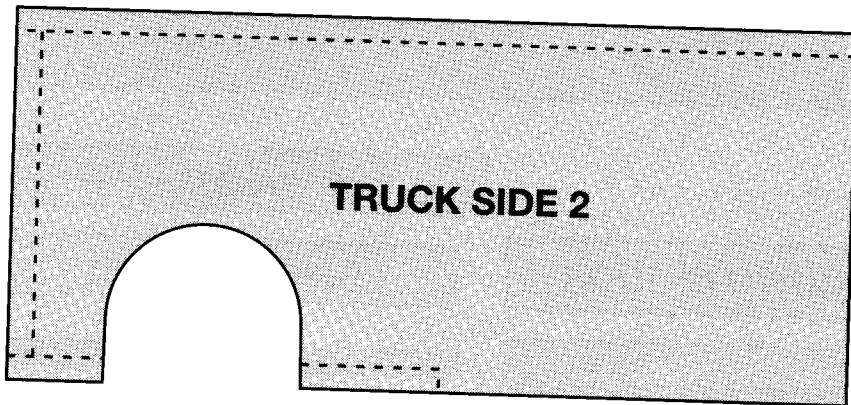
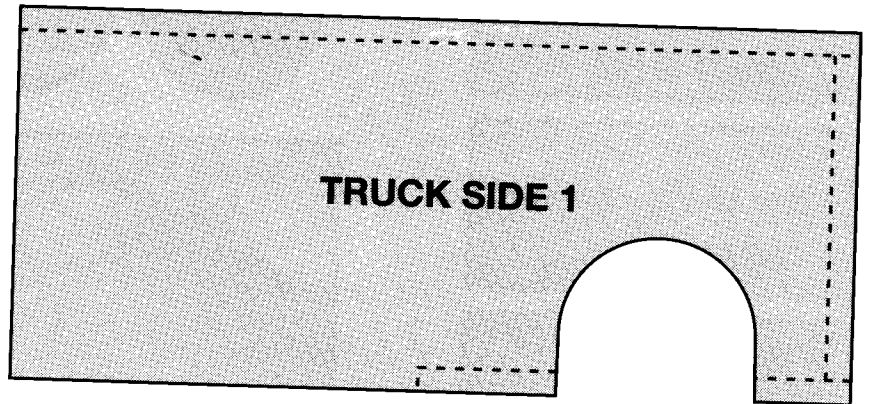
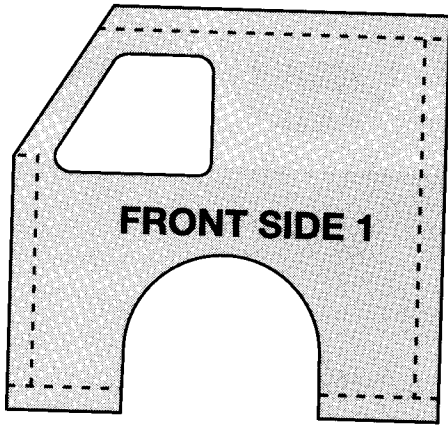
13. Take the 2 pieces for the WHEEL AXLES and use the sander to make round. Insert 1 WHEEL AXLE through each of the 2 AXLE ASSEMBLIES underneath the truck.



14. Attach the 4 truck WHEELS to the truck AXLES as shown, and you're done!

The finished fire truck should look like the drawing at the top of this section. If it does, great job!  
You may paint or glaze your finished truck as desired. (Paint and glaze not included.)

# FIRETRUCK CUTOUTS (Page 1 of 2)





# FIRETRUCK CUTOUTS (Page 2 of 2)

