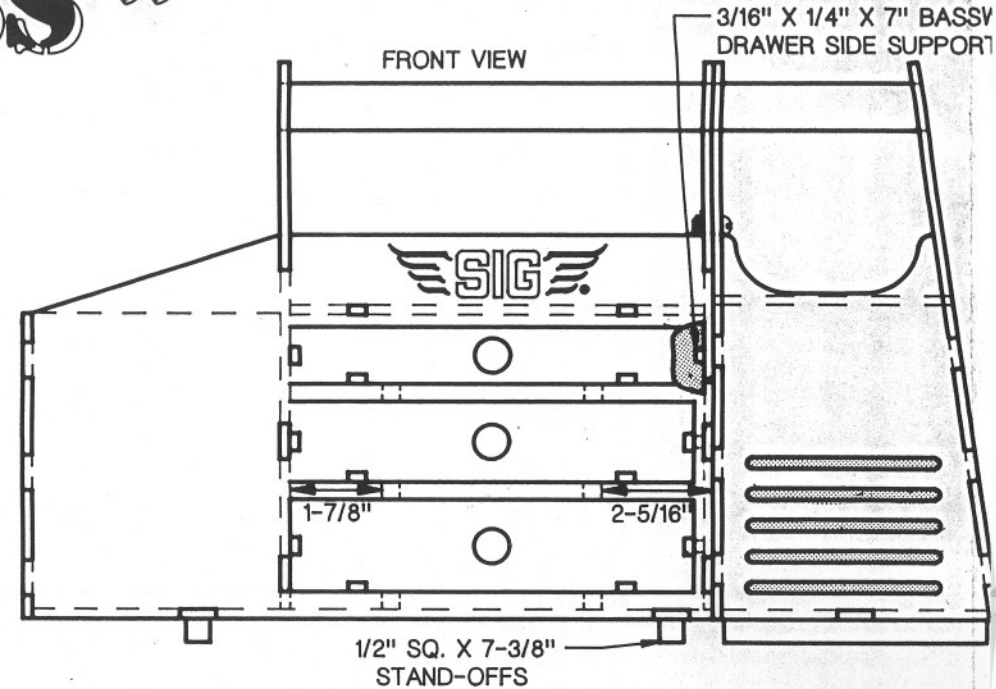
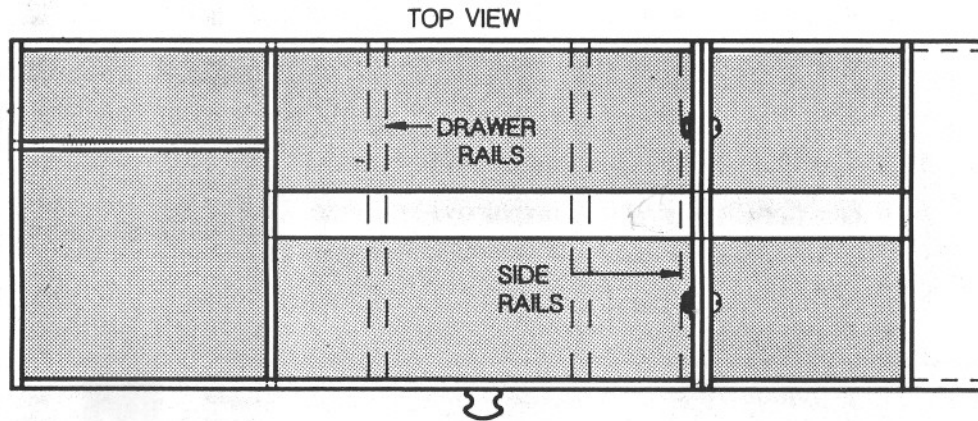


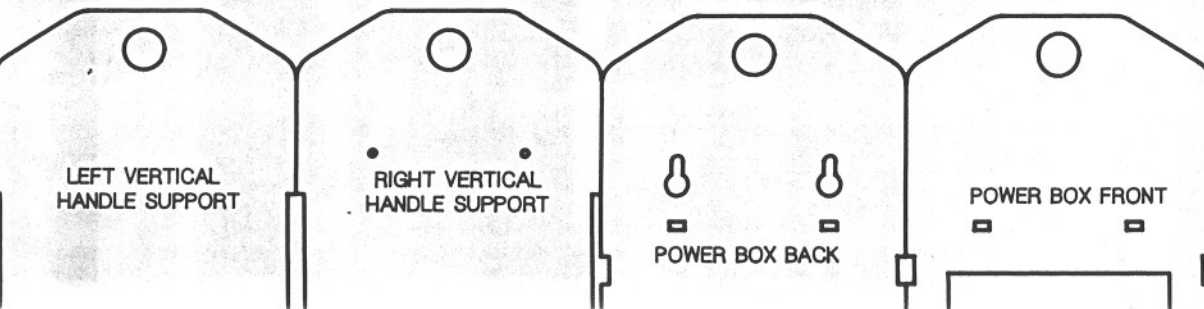
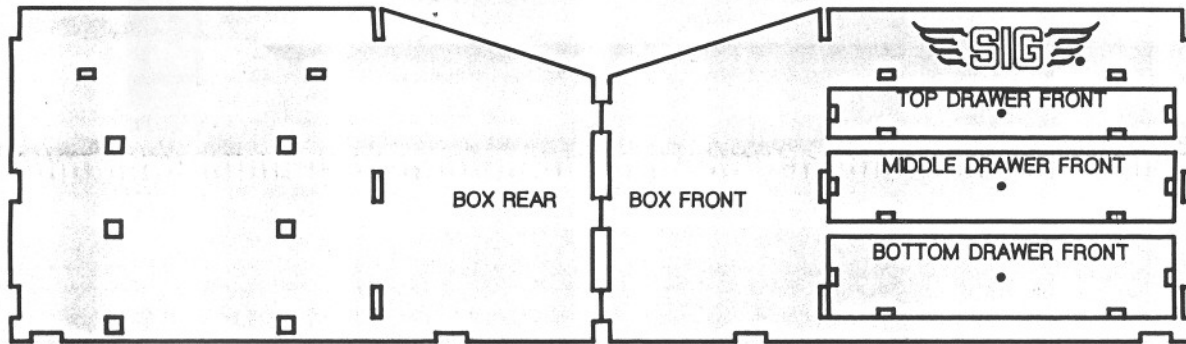


“MINIBOSS”

ASSEMBLY DRAWINGS



KEY TO LASER-CUT PARTS



SIG "MINIBOSS" (KIT #BX002)

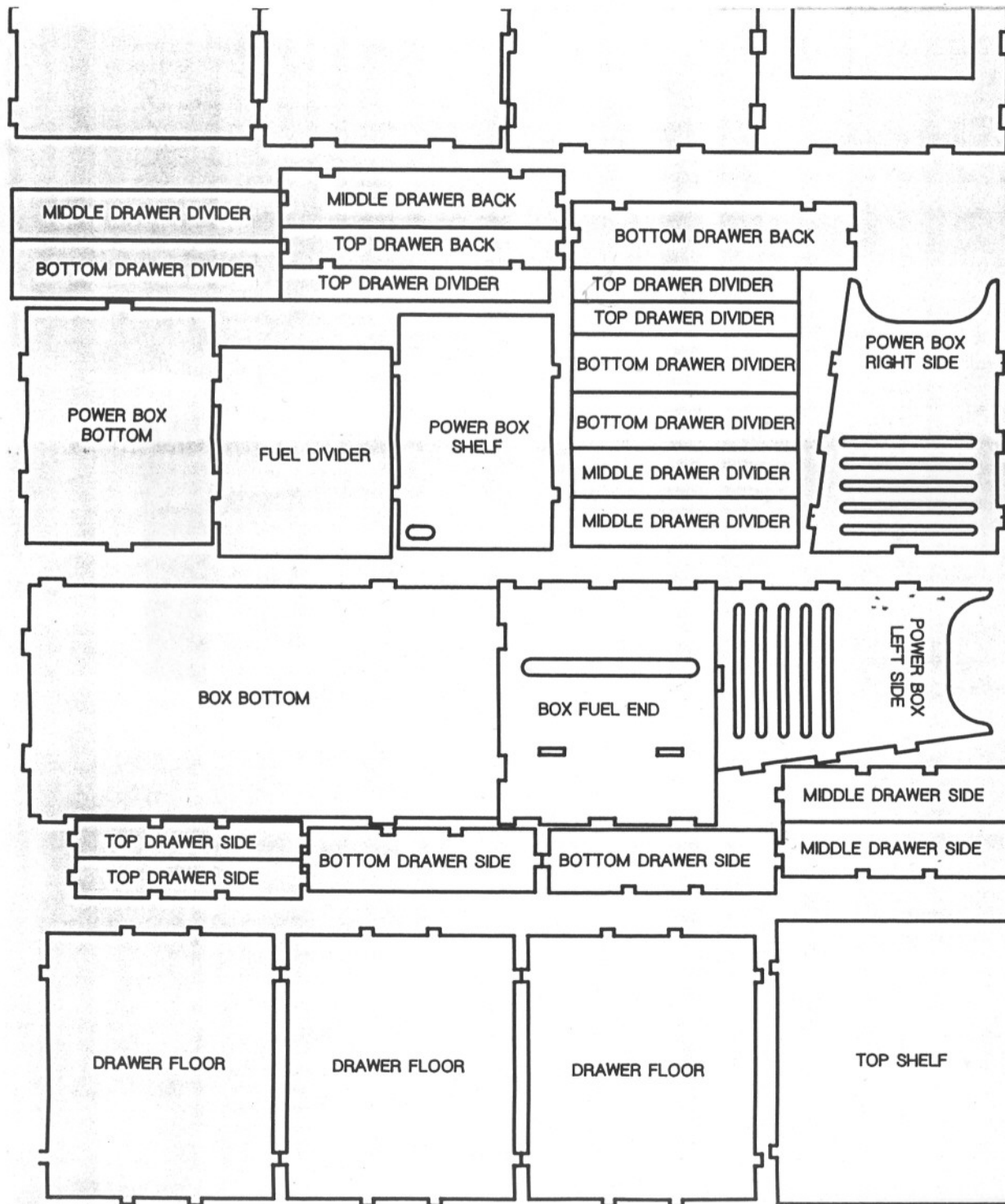
The SIG "MINIBOSS" flight box is a smaller, more compact version of the popular "FIELDBOSS". For flightline convenience, the MINIBOSS provides you with an integrated, removable power box. The design has been specifically engineered to offer the most amount of useable storage space of any kit-built flightbox on the market. Virtually every part of your MINIBOSS has been precisely laser-cut, assuring incredible accuracy and fit. Assembly is quick and easy. It is important to understand the assembly sequence and we therefore suggest you follow these simple construction steps.

REQUIRED TOOLS AND MATERIALS FOR ASSEMBLY:

- SCREWDRIVERS - SLOTTED AND PHILLIPS
- ADJUSTABLE WRENCH
- 1/4-20 TAP
- CARPENTERS TRIANGLE
- 80 AND 220 GRIT SANDPAPER
- SANDING BLOCK OR VIBRATING PALM SANDER
- MASKING TAPE
- PENCIL
- ADHESIVE - SUCH AS SIG THICK CA GLUE AND ACCELERATOR

(NOTE - Carpenters glue or aliphatic resin type glues may be used to build this product. However, be aware that these adhesives are slower setting, may possibly require clamps and some of them are not waterproof.)

These instructions will provide you with the basic MINIBOSS flight box. We suggest you study the assembly of the MINIBOSS and plan for using your own equipment installations ahead of time. It is easiest to do this before assembly. Because the laser-cut parts fit so accurately, it is possible to assemble (dry fit) the entire MINIBOSS.



without using glue. Doing this may give you some idea as to where you might want to locate your own equipment and also demonstrates assembly.

If you plan to mount an electric fuel pump, you will need 20" of 16-gauge electrical hook-up wire. Solder one end of the wires to the power panel and attach the clips that come with the power panel to opposite ends, making the required battery connections. This allows the wires to be easily disconnected and reattached for carrying purposes.

IMPORTANT NOTE: Always be sure that the battery clips are shielded to prevent shorting out the wires and that they are firmly connected to the battery to prevent arcing.

Before starting actual assembly, we suggest sanding the face surfaces of each of the laser-cut parts with a large sanding block or an electric palm sander, using 80-grit sandpaper. This removes the laser flash marks and makes each part clean, smooth, and just about ready for finish. Also, check the fit of the handle dowel through each of the four vertical handle supports. If the fit is too tight, sand the dowel until it will fit into place. If the fit is still too tight, use sandpaper to sand the hole opening as smooth as possible until the dowel fits. The fit should be smooth but not loose.

Last, the names of the various parts used in these instructions will be the same as those shown on the "Key To Laser-Cut Parts" drawings on the left. The 5-view Assembly Drawings above will also be helpful in identifying various smaller parts used for building the MINIBOSS.

BASIC ASSEMBLY

1) Prepare the Right Vertical Handle Support for assembly. Using a 1/4-20 tap and handle, tap the two laser-cut holes with 1/4-20 threads. The threads can be hardened by applying a few drops of thin CA glue and then re-tapping them, when the glue has set.

As shown and called out in the Front and Back views, the Right Vertical Handle Support has three 3/16" X 1/4" X 7" basswood Drawer Side Rails in place to keep the drawers from shifting. These are installed now. Measuring from the bottom of the Right Vertical Handle Support, make a pencil mark at 1-1/2", 3-3/4", and 5-5/8". Turn the part on its side and use a triangle to make a light line across these three marks. Glue the three basswood rails in place, centering them on the lines just drawn.

2) Place the Box Bottom on a flat work surface, with its front edge facing you. Fit the Box Rear panel into the tabs at the rear of the Box Bottom. Holding the Box Rear panel in place, use a pencil to strike a line along its length onto the Box Bottom. Remove the Box Rear panel and apply a bead of thick CA glue along the joint line, inside of the pencil line. Carefully reposition the Box Rear panel back in place at 90° upright. Hold both pieces together firmly and spray the joint with accelerator.

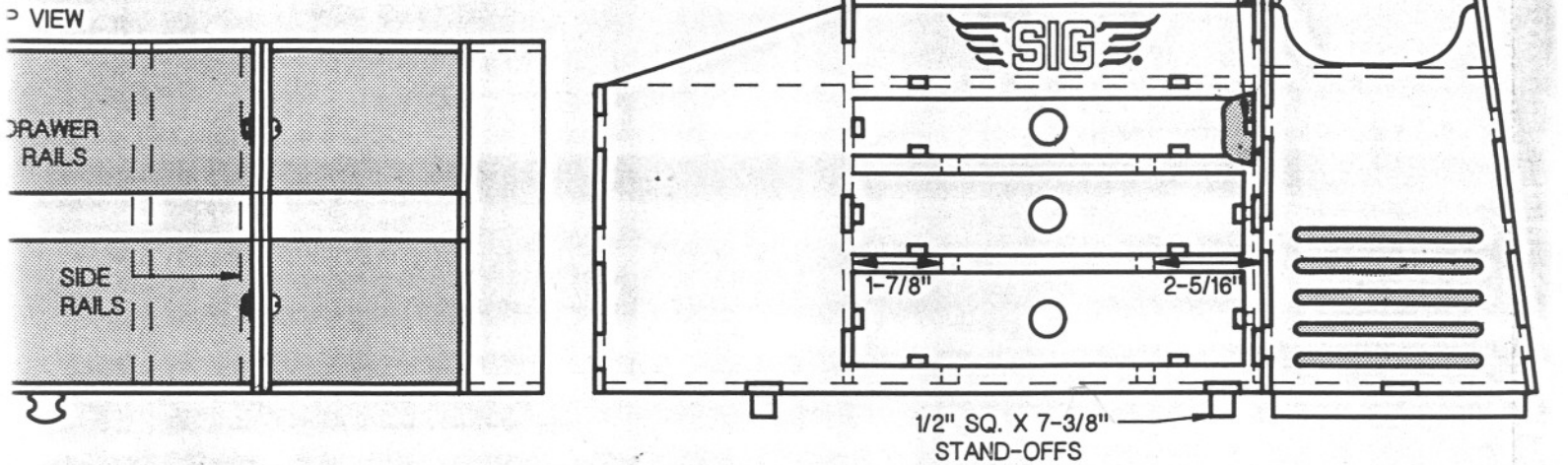
3) The two Right and Left Vertical Handle Supports are now glued in place to the Box Rear and Box Bottom panels. Note that the tabs and slots in these respective parts will serve to align them properly to each other. Make sure that the Right Vertical Handle Support has the Drawer Side Rails facing into the box.

4) Lay the box assembly on its back, with the Box Rear panel flat on your work surface. Locate the Top Shelf panel (the top panel directly over the three drawers). Apply glue to only its rear edge, where it contacts the Box Rear panel, and glue it in place at 90° to the Box Rear panel. Use a triangle to hold it in position and accelerator to set the glue.

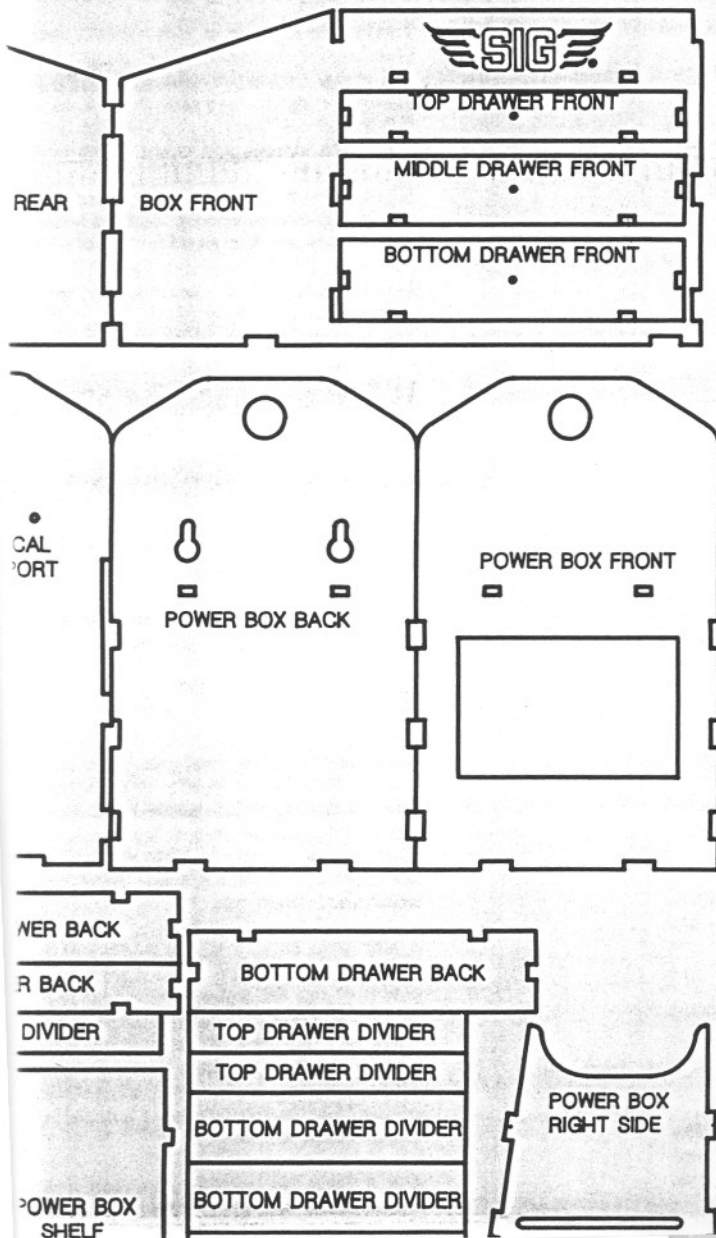
5) Trial fit the Box Front panel in place to the thus completed assembly. All tabs and slots should line up and fit, allowing the Box Front panel to slip easily in place. Once satisfied with the fit, remove the Box Front panel and apply glue to the edges of each mating surface. Reposition the Box Front panel back in place. Use weights to hold it firmly in contact with the other parts and spray accelerator on the glue joints to set the adhesive.

MINIBOSS™

ASSEMBLY DRAWINGS



LASER-CUT PARTS



SIG "MINIBOSS" (KIT #BX002)

The SIG "MINIBOSS" flight box is a smaller, more compact version of the popular "FIELDBOSS". For flightline convenience, the MINIBOSS provides you with an integrated, removable power box. The design has been specifically engineered to offer the most amount of useable storage space of any kit-built flightbox on the market. Virtually every part of your MINIBOSS has been precisely laser-cut, assuring incredible accuracy and fit. Assembly is quick and easy. It is important to understand the assembly sequence and we therefore suggest you follow these simple construction steps.

REQUIRED TOOLS AND MATERIALS FOR ASSEMBLY:

- SCREWDRIVERS - SLOTTED AND PHILLIPS
- ADJUSTABLE WRENCH
- 1/4-20 TAP
- CARPENTERS TRIANGLE
- 80 AND 220 GRIT SANDPAPER
- SANDING BLOCK OR VIBRATING PALM SANDER
- MASKING TAPE
- PENCIL
- ADHESIVE - SUCH AS SIG THICK CA GLUE AND ACCELERATOR

(NOTE - Carpenters glue or aliphatic resin type glues may be used to build this product. However, be aware that these adhesives are slower setting, may possibly require clamps and some of them are not waterproof.)

These instructions will provide you with the basic MINIBOSS flight box. We suggest you study the assembly of the MINIBOSS and plan for using your own equipment installations ahead of time. It is easiest to do this before assembly. Because the laser-cut parts fit so accurately, it is possible to assemble (dry-fit) the entire MINIBOSS first, without using glue. Doing this may give you some idea as to where you might want to locate your own equipment and also demonstrates assembly.

If you plan to mount an electric fuel pump, you will need 20" of 16-gauge electrical hook-up wire. Solder one end of the wires to the power panel and attach the clips that come with the power panel to opposite ends, making the required battery connections. This allows the wires to be easily disconnected and reattached for carrying purposes.

IMPORTANT NOTE: Always be sure that the battery clips are shielded to prevent shorting out the wires and that they are firmly connected to the battery to prevent arcing.

Before starting actual assembly, we suggest sanding the face surfaces of each of the laser-cut parts with a large sanding block or an electric palm sander, using 80-grit sandpaper. This removes the laser flash marks and makes each part clean, smooth, and just about ready for finish. Also, check the fit of the handle dowel through each of the four vertical handle supports. If the fit is too tight, sand the dowel until it will fit into place. If the fit is still too tight, use sandpaper to sand the hole opening as smooth as possible until the dowel fits. The fit should be smooth but not loose.

Last, the names of the various parts used in these instructions will be the same as those shown on the "Key To Laser-Cut Parts" drawings on the left. The 5-view Assembly Drawings above will also be helpful in identifying various smaller parts used

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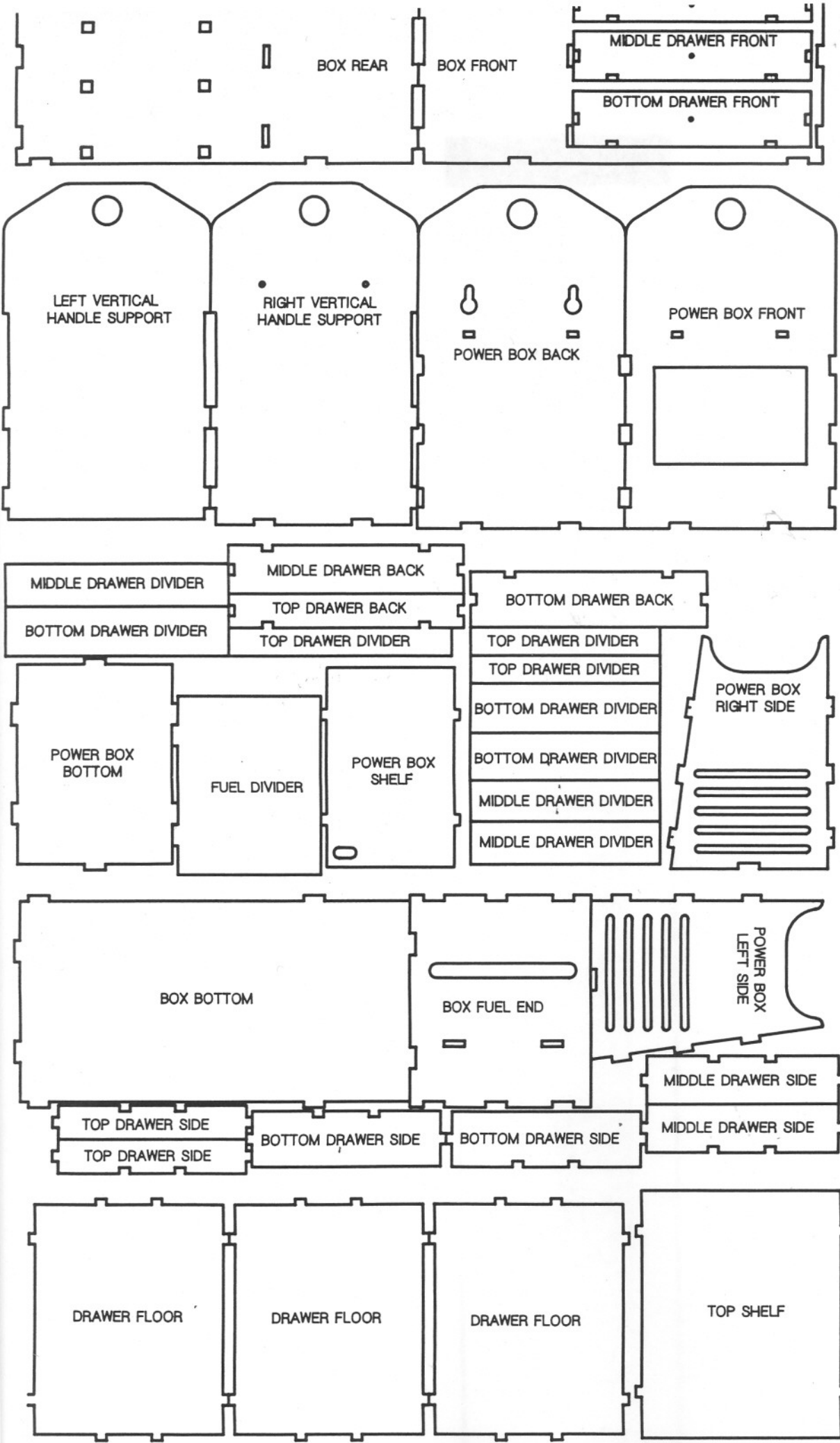
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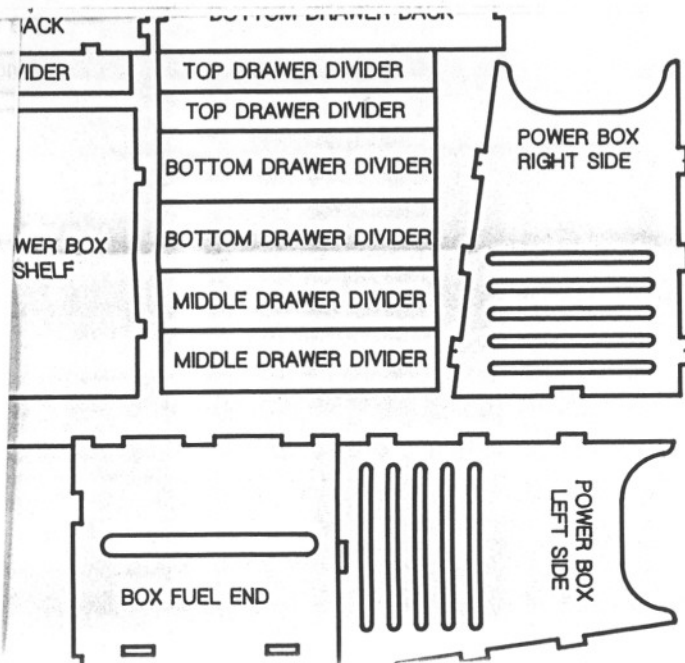
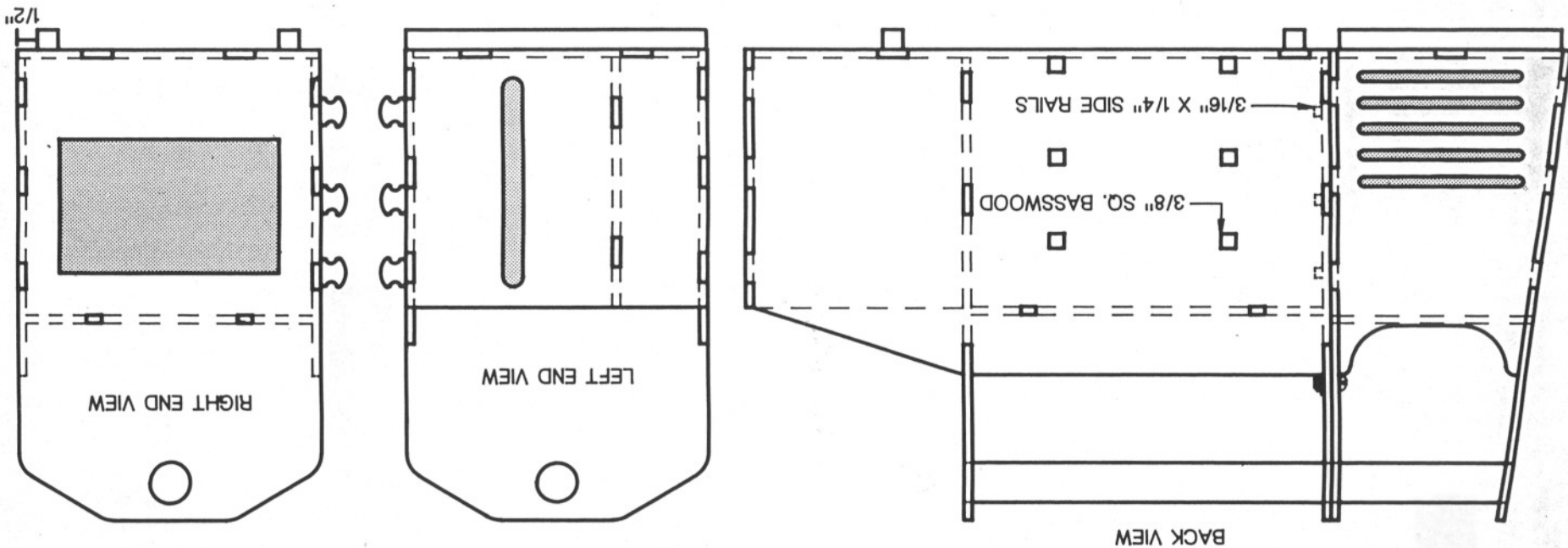
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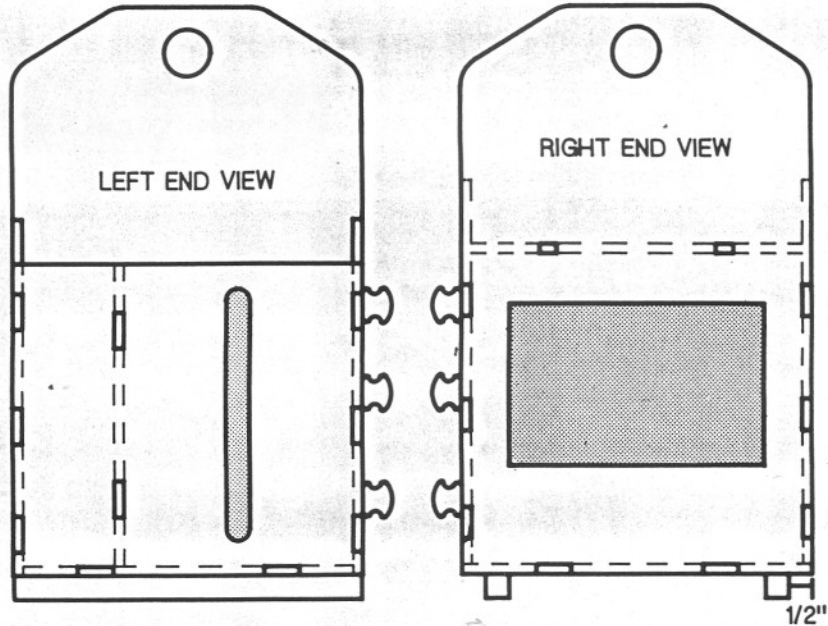
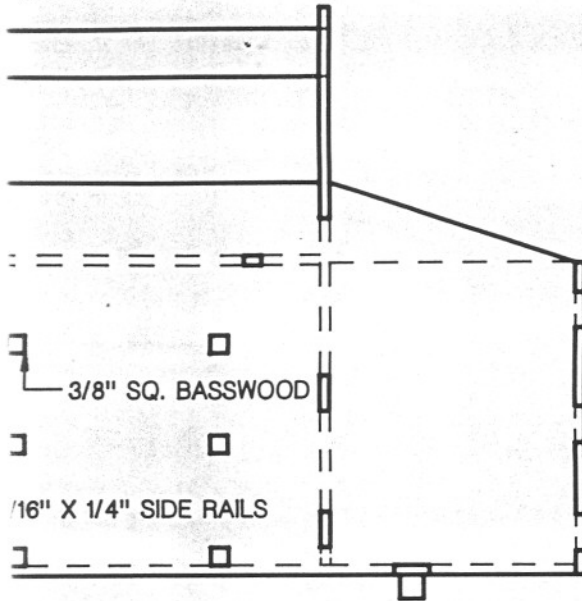
BASIC ASSEMBLY

1) Prepare the Right Vertical Handle Support for assembly. Using a 1/4-20 tap and handle, tap the two laser-cut holes with 1/4-20 threads. The threads can be hardened by applying a few drops of thin CA glue and then re-tapping them, when the glue has set.

As shown and called out in the Front and Back views, the Right Vertical Handle Support has three 3/16" X 1/4" X 7" basswood Drawer Side Rails in place to keep the drawers from shifting. These are installed now. Measuring from the bottom of the Right Vertical Handle Support, make a pencil mark at 1-1/2", 3-3/4", and 5-5/8". Turn the part on its side and use a triangle to make a light line across these three marks. Glue the three basswood rails in place, centering them on the lines just drawn.

2) Place the Box Bottom on a flat work surface, with its front edge facing you. Fit the

BACK VIEW



down on your work surface. You should be able to see where the Left and Right Vertical Handle Supports. Carefully apply a bead of glue to the joints and set the glue with accelerator.

Facing you on your work surface. Locate the six (6) 3/8" sq. Basswood Supports. Use a sanding block to lightly smooth each side so the Drawer Supports fit into the 3/8" sq. holes in the Box Rear panel. On the back face of the Box Front panel, between the drawer cut-outs, the supports are positioned. Make these two measurements at the base of the Box Front panel to lightly mark these measurements onto the front box panel. (Note that these supports are cut just a little longer than the drawer openings must also be unobstructed by the drawer supports. Repeat this procedure with the remaining bottom drawer

and top Drawer Supports are installed in the same manner, place into their respective square cut-out holes in the Box Front, between the drawer cut-outs. Again, the supports are to be aligned with the previously made pencil marks. It is important to make sure of the fit before gluing. Each Drawer Support is visually parallel with each other and the inner sides of the panels. The drawer openings must also be unobstructed by the drawer supports.

and Fuel Divider panels. With the Box Fuel End panel flat on the work surface, place the Fuel Divider panel in place, engaging the slots and tabs, and set the glue. The Box Fuel End/Fuel Divider assembly is placed on the left side of the flight box and the Left Vertical Handle Support is placed into its respective slot, making sure of full contact to each

Power Box that mounts onto the right side of the MINIBOSS is placed on the Power Box Front and Rear panels, the Power Box Right and Left Vertical Handle Support panels. Place the Power Box Bottom and Shelf panels. Place the Power Box Bottom panel in place to the bottom and use a triangle to keep it at 90° to the bottom. Use accelerator to set the glue. Remove the Back panel and apply a bead of glue to the joint. Fit the Power Box Back vertical panel in place to the back and use a triangle to keep it at 90° to the bottom. Use accelerator to set the glue. Fit the Power Box Shelf panel with slots in the Power Box Back and Bottom panels. Use a triangle for alignment.

Right and Left side panels are almost identical. The nail holes laser-cut into its top and bottom tabs. These are secured with the #2 X 3/8" screws that are used to make the panel secure.

Fit Power Box Side onto the Bottom, Back, and Shelf edges. Use a triangle to keep it at 90° to the bottom. Use accelerator to set the glue. Trial fit and then

Sand all tab and slot joints carefully to smooth them to the surface of the box surface. Likewise, the drawers need to be sanded smooth, allowing them to slip easily into and out of their respective openings. When you get the box sanded uniformly, switch to 220-grit sandpaper and sand these surfaces once again. When you're finished the box should look and feel extremely smooth and uniform. Use compressed air and/or a good tack rag to remove all dust and debris from the box assemblies.

13) Glue the two 1/2" sq. X 7-3/8" hardwood stand-offs to the bottom of the main flight box (see drawings above). Cut the two remaining 1/2" sq. X 7-3/8" pieces to 5-3/4" long. These are then glued to the bottom of the Power Box, as shown above.

14) After applying the final finish to your MINIBOSS, use the supplied three #10 X 3/4" screws to secure the wood knobs to each drawer. We have included a simple drawer retention system that works very well. Cut the 3/4" X 3" Velcro® strip into three 1" lengths. One side of the tape is applied to the back, center of the drawer. Remove the paper strip from adhesive side of the opposite side of the Velcro® strip and insert the drawer into its appropriate opening in the box, all the way back to the back of the flight box. Now pull the drawer back out, thus leaving the mating Velcro® piece in place in the flight box. Reach into the box and firmly press the tape to the box. Repeat this procedure for the remaining two drawers. This system holds the drawers nicely in place and yet easily releases when you need to open the drawer.

15) Locate the two 1/4-20 X 5/8" round head machine bolts, washers and hex nuts. Thread the bolts through the pre-threaded holes on the outside face of the Right Vertical Handle Support, just far enough to easily (not tight, not loose) accept and hang the Power Box unit. Use the washers and nuts to secure the bolts firmly in place on the inside face of the Vertical panel.

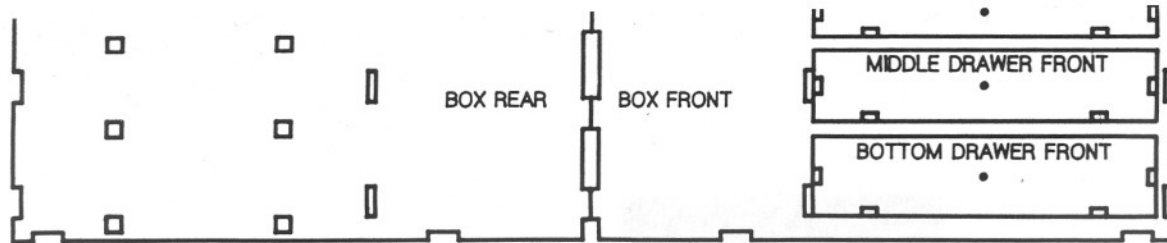
FINISHING SUGGESTIONS

The high quality interior grade plywood used in your MINIBOSS flight box kit lends itself to a variety of finishing methods. Here at SIG, we really enjoy the look of the wood itself and decided to use a quality clear finish to enhance and retain it. If you also like this look, the procedure is included in the following finishing suggestions. Of course there are several practical ways to finish your MINIBOSS and we've included a few of these ideas as well. Whatever method you choose, take your time and enjoy the process. Always be sure to work in a well-ventilated area and to use proper eye protection when working with chemicals.

1) NATURAL WOOD, HIGH GLOSS OR MATTE FINISH:

After thoroughly cleaning the flight box, drawers, etc. with compressed air and/or a good tack rag, we applied a thin coat of clear Interior/Exterior Urethane Acrylic. This material is used for a variety of wood finishing requirements, including gymnasium floors, etc. It is tough! It also has the side benefit of being highly UV (sunlight) resistant. It is most widely used for finishing wood floors and is typically available in either gloss or matte formulas. It is sold under a variety of brand names. The material we used has the trade name of MAXTECH™, produced by Premier Coatings, Inc., Elk Grove Village, Illinois.

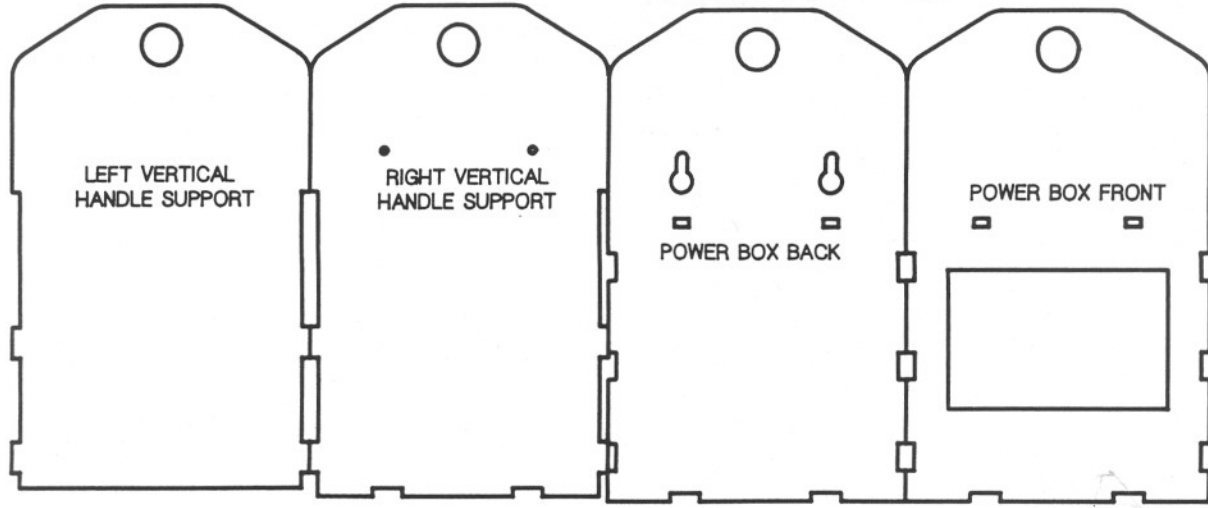
After the first thin coat has dried (best if left overnight), we sanded all coated surfaces with #220 sandpaper. This leaves a very smooth surface, which is then ready for the second, final coat. Again, clean all surfaces with a tack rag, removing all dust and debris. Apply the second coat. We used a 2" foam brush and were careful to avoid



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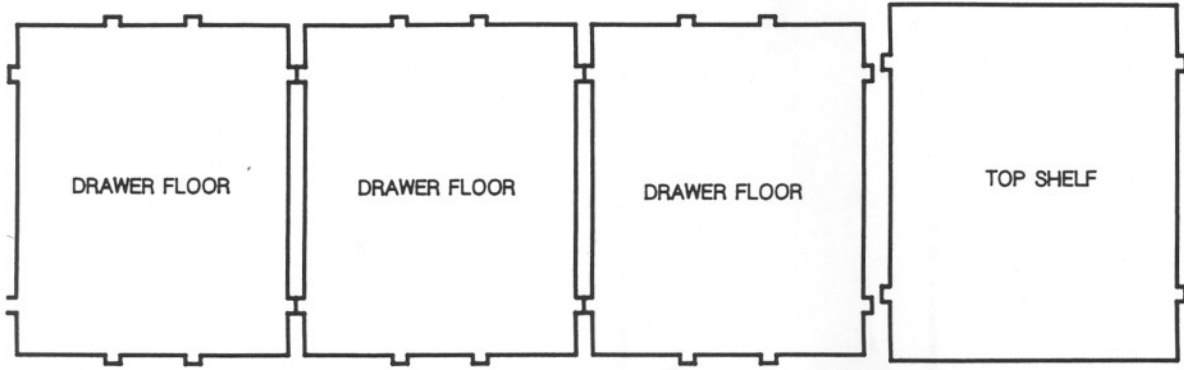
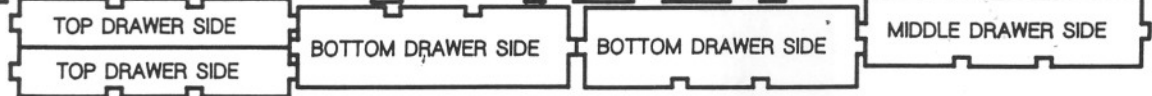
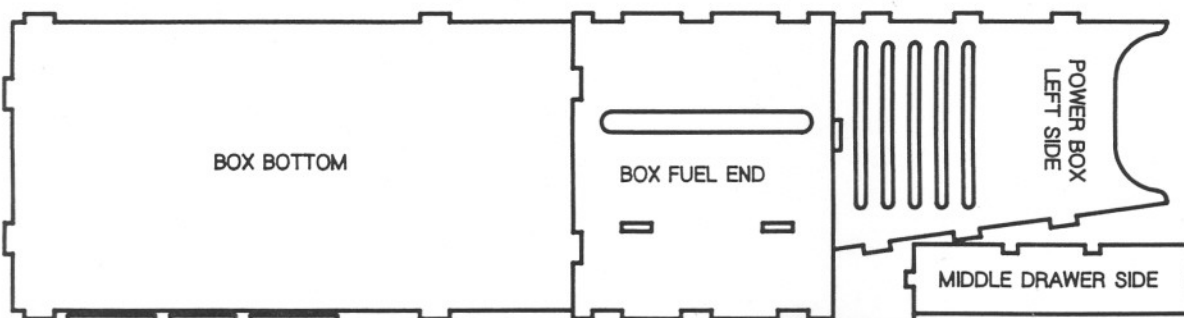
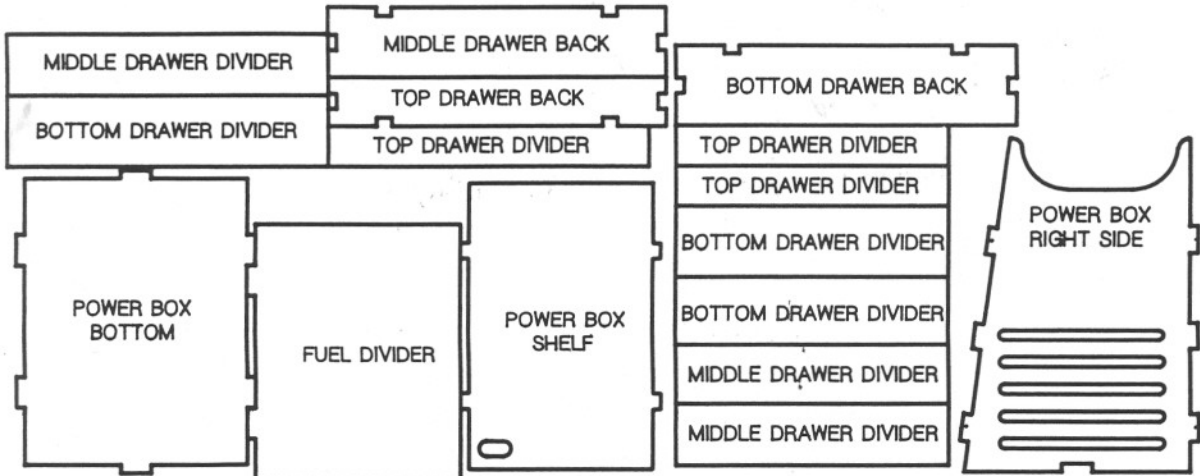
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X 7-1/4" basswood Drawer Supports. Use a sanding block to lightly smooth each side of these six parts. The Drawer Supports fit into the 3/8" sq. holes in the Box Rear panel and are glued in place to the back face of the Box Front panel, between the drawer openings. As shown in the Front View Drawing above, the supports are positioned 1-7/8" in from the Left Vertical Handle Support panel and 2-5/16" in from the Right Vertical Support Handle. Make these two measurements at the base of the Box Front and use a triangle and pencil to lightly mark these measurements onto the front box panel. Slide one of the Drawer Supports in place into the bottom of the box. It should fit into the square hole, resting on the bottom of the box with the front end up against the back face of the Box Front. (Note that these supports are cut just a little longer than necessary in order to be able to sand them flush with the Box Rear panel.) Remove the Drawer Support and apply glue to one of its sides and to the end that will fit against the Box Front. Re-install the support, lining up its front end with the pencil mark, and spray with accelerator. Repeat this procedure with the remaining bottom drawer support.

7) The remaining middle and top Drawer Supports are installed in the same manner, except they will be glued in place into their respective square cut-out holes in the Box Rear and to the inside face of the Box Front, between the drawer cut-outs. Again, the front ends of the supports are to be aligned with the previously made pencil marks. It helps to pre-fit each piece, making sure of the fit before gluing. Each Drawer Support should be glued in place, visually parallel with each other and the inner sides of the Vertical Handle Support panels. The drawer openings must also be unobstructed by the supports to assure proper drawer clearance and operation.

8) Locate the Box Fuel End and Fuel Divider panels. With the Box Fuel End panel flat on your work surface, glue the Fuel Divider panel in place, engaging the slots and tabs, at 90°. Use accelerator to set the glue. The Box Fuel End/Fuel Divider assembly is now glued in place to the left side of the flight box and the Left Vertical Handle Support panel. Engage each tab into its respective slot, making sure of full contact to each gluing surface.

9) The basic removable Power Box that mounts onto the right side of the MINIBOSS is now assembled. Locate Power Box Front and Rear panels, the Power Box Right and Left Sides and the Power Box Bottom and Shelf panels. Place the Power Box Bottom on your flat work surface. Fit the Power Box Back panel in place to the bottom and use a pencil to strike a light line at the joint. Remove the Back panel and apply a bead of glue to the bottom, staying outside of the pencil line. Fit the Power Box Back vertical panel back in place, using a triangle to keep it at 90° to the bottom. Use accelerator to set the glue. Align the Power Box Shelf panel with slots in the Power Box Back and glue in place at 90°, using a triangle for alignment.

Note that the Power Box Right and Left side panels are almost identical. The Right side has four (4) small holes laser-cut into its top and bottom tabs. These holes are guide holes for the #2 X 3/8" screws that are used to make the panel removable for battery access.

Trial-fit and then glue the Left Power Box Side onto the Bottom, Back, and Shelf edges. Use weights to hold it firmly in place and accelerator to set the glue. Trial-fit and then glue the Power Box Front panel in place to the thus completed assembly. Use weights to hold it firmly to the gluing edges and accelerator to set the glue.

The Right Power Box Side (with the four holes in the tabs) is now positioned in place. Use sandpaper to make sure that the fit is good without binding - this will be a removable panel. Once satisfied, use a 1/16" dia. drill bit to drill through the four holes in the panels tabs, to a depth of about 1/8". Use a screwdriver to now attach the Right Power Box Side panel in place with the supplied #2 X 3/8" screws - **do not glue this panel in place.**

10) The individual drawers are now assembled. Carefully note that each of the drawers is a different depth and therefore each drawer - in depth - has its own front, back and side pieces. The only common drawer parts are the three drawer bottoms. Also note that we have also provided three (3) drawer dividers for each drawer. These too are of three different depths to fit into the three different drawers. Each drawer is assembled in the same way and the following instructions apply to all three.

Place the Drawer Floor on your flat work surface. Glue one of the Drawer Sides to the side of the Floor, at 90°. Glue the remaining Drawer Side in place, opposite of the first one, at 90°. Glue the Drawer Back in place to the Floor, and two Sides. Last, glue the Drawer Front (single knob screw hole in the center) in place to the Floor and two Sides. Each finished drawer should be sanded smooth and test-fitted into its appropriate opening in the front of the flight box. Make any adjustments required to achieve a smooth, flush fit. The drawer dividers and drawer knobs are not installed until after the completed flight box has been sanded and painted.

11) The 1" dia. X 9" Handle Dowel for the main box and the 1" dia. X 4-1/2" Handle Dowel for the Power Box are now fitted into place through the two holes in the top of the Vertical Handle Supports for each unit. There should be little, if any, excess dowel protruding from either side of the Handle Support panels. However, if there is a little too much to sand, mark the excess with pencil and use a saw to remove it. Glue the two handle pieces in place into their respective locations.

12) Your MINIBOSS flight box is essentially complete, requiring only drawer knobs, the 1/2" sq. X 7-3/8" bottom stand-offs and the finish of your choice. Before doing any of this however, the box itself and the drawers need to be final sanded for finishing. As mentioned earlier, the quickest and easiest way to do this is with an electric palm sander and 80-grit sandpaper. Always wear a sanding mask and ear protection if you are using a power sander.

should look and feel extremely smooth and tack rag to remove all dust and debris from

13) Glue the two 1/2" sq. X 7-3/8" hardwood box (see drawings above). Cut the two rear long. These are then glued to the bottom of

14) After applying the final finish to your MINIBOSS, secure the wood knobs to each drawer with a retention system that works very well. Cut lengths. One side of the tape is applied to the paper strip from adhesive side of the opposite drawer into its appropriate opening in the box. Now pull the drawer back out, thus leaving the flight box. Reach into the box and firmly pull the drawer back in. This procedure for the remaining two drawers. This system and yet easily releases when you need to open

15) Locate the two 1/4-20 X 5/8" round head screws. Thread the bolts through the pre-threaded Vertical Handle Support, just far enough to engage the Power Box unit. Use the washers and nuts to secure the inside face of the Vertical panel.

FINISHING SUGGESTIONS

The high quality interior grade plywood used in the MINIBOSS is suitable to a variety of finishing methods. Here at SIG we decided to use a quality clear finish to emulate the look of a real wood finish. The procedure is included in the following pages. There are several practical ways to finish your MINIBOSS. Whatever method you choose, Always be sure to work in a well-ventilated area when working with chemicals.

1) NATURAL WOOD, HIGH GLOSS OR MATTE FINISH
After thoroughly cleaning the flight box, dry with a good tack rag, we applied a thin coat of clear finish. This material is used for a variety of wood finishes on floors, etc. It is tough! It also has the same resistance to water as the real wood. It is most widely used for finishing either gloss or matte formulas. It is sold under the name of MAXTECH™, Grove Village, Illinois.

After the first thin coat has dried (best if left overnight), sand with #220 sandpaper. This leaves a very smooth surface. Apply a second, final coat. Again, clean all surfaces of debris. Apply the second coat. We used a 24" brush. Finish each part separately and place them back in the box. The box is finished and ready to use.

2) FULL COLOR WITH TRIM ACCENTS
To do it right, a fully painted box requires primers also compatible with the type of paint that you are using. The primers on the market and your local paint store are not that easy to use. We have used and enjoyed the use of Nelson Hobby Specialties. This premium primer is compatible with virtually any paint.

Nelson Hobby Sp
2900 SW Corneli
Unit 763
Hillsboro, OR 97
Telephone: (503)
Web Site: www.ne

Once the flight box is primed, you can use paint. We use a spray paint called Spray Butyrate Dope. SIG Supercoat Spray is another product that gives you a lot of choices! Supercoat Spray is available in many colors and accents, if desired. Give it a try - you'll like it!

To add a color pattern, tape off your color scheme. We are not using canned spray paints, we always use a brush to apply one color at a time. This is a great product called Reducible Polyurethane paints. When chosen, they are formulated to withstand UV exposure.

LIMIT OF LIABILITY

The craftsmanship, attention to detail and a kit will ultimately determine its durability and life span. The user's only obligation shall be to replace defective or missing parts. The user shall determine his or her intended use and shall assume all liability therewith.

tack rag to remove all dust and debris from the box assemblies.

Use a sanding block to lightly smooth each side of the front and rear panels. The drawer supports fit into the 3/8" sq. holes in the Box Rear panel and the front face of the Box Front panel, between the drawer cut-outs. View Drawing above, the supports are positioned between the Middle Support panel and 2-5/16" in from the Right Side. Take two measurements at the base of the Box Front panel. Lightly mark these measurements onto the front box panel. Push the drawer supports in place into the bottom of the box. It should fit snugly at the bottom of the box with the front end up against the floor. Note that these supports are cut just a little longer than the drawer cut-outs and them flush with the Box Rear panel.) Remove the drawer support from one of its sides and to the end that will fit against the floor, lining up its front end with the pencil mark, and repeat this procedure with the remaining bottom drawer support.

Drawer Supports are installed in the same manner, between the front and rear panels, into their respective square cut-out holes in the Box Front and Box Rear, between the drawer cut-outs. Again, the supports should be aligned with the previously made pencil marks. It is important to be sure of the fit before gluing. Each Drawer Support should be installed parallel with each other and the inner sides of the box. The drawer openings must also be unobstructed by the drawer supports for clearance and operation.

Divide the Box Fuel End panel flat with the Box Fuel End Divider panel in place, engaging the slots and tabs, and glue. The Box Fuel End/Fuel Divider assembly is the front face of the flight box and the Left Vertical Handle Support panel is the side face, making sure of full contact to each other.

Mount the Power Box Bottom panel onto the right side of the MINIBOSS is between the Front and Rear panels, the Power Box Right and Left Side panels and Shelf panels. Place the Power Box Bottom panel in place to the bottom and use a pencil to mark the bottom edge of the pencil line. Fit the Power Box Back vertical panel to keep it at 90° to the bottom. Use accelerator to set the glue. Fit the Shelf panel with slots in the Power Box Back and use a pencil to mark the alignment.

Left side panels are almost identical. The panels are laser-cut into its top and bottom tabs. These panels use the supplied #2 X 3/8" screws that are used to make the panel

Attach the Box Side onto the Bottom, Back, and Shelf edges. Use a pencil to mark the alignment and accelerator to set the glue. Trial-fit and then attach the thus completed assembly. Use weights and accelerator to set the glue.

The four holes in the tabs) is now positioned in place. If the fit is good without binding - this will be a good fit. Use a 1/16" dia. drill bit to drill through the four holes at 1/8". Use a screwdriver to now attach the Right Side panels with the supplied #2 X 3/8" screws - **do not glue this**

Assembled. Carefully note that each of the drawers is a different drawer - in depth - has its own front, back and side panels. Also note that the drawer dividers for each drawer. These too are of different drawers. Each drawer is assembled according to the instructions apply to all three.

Work surface. Glue one of the Drawer Sides to the remaining Drawer Side in place, opposite of the first side. Place the Floor, and two Sides. Last, glue the Middle Support panel in place to the Floor and two Sides. Sand the floor and test-fitted into its appropriate location. Make any adjustments required to achieve a snug fit. Drawer knobs are not installed until after the floor and sides are painted.

Mount the main box and the 1" dia. X 4-1/2" Handle into place through the two holes in the top of the box. There should be little, if any, excess dowel between the Middle Support panels. However, if there is a little excess, use a pencil and use a saw to remove it. Glue the handle at the respective locations.

Finally complete, requiring only drawer knobs, the drawers and the finish of your choice. Before doing any of the drawers need to be final sanded for finishing. As the easiest way to do this is with an electric palm sander. Wear a sanding mask and ear protection if you

13) Glue the two 1/2" sq. X 7-3/8" hardwood stand-offs to the bottom of the main flight box (see drawings above). Cut the two remaining 1/2" sq. X 7-3/8" pieces to 5-3/4" long. These are then glued to the bottom of the Power Box, as shown above.

14) After applying the final finish to your MINIBOSS, use the supplied three #10 X 3/4" screws to secure the wood knobs to each drawer. We have included a simple drawer retention system that works very well. Cut the 3/4" X 3" Velcro® strip into three 1" lengths. One side of the tape is applied to the back, center of the drawer. Remove the paper strip from adhesive side of the opposite side of the Velcro® strip and insert the drawer into its appropriate opening in the box, all the way back to the back of the flight box. Now pull the drawer back out, thus leaving the mating Velcro® piece in place in the flight box. Reach into the box and firmly press the tape to the box. Repeat this procedure for the remaining two drawers. This system holds the drawers nicely in place and yet easily releases when you need to open the drawer.

15) Locate the two 1/4-20 X 5/8" round head machine bolts, washers and hex nuts. Thread the bolts through the pre-threaded holes on the outside face of the Right Vertical Handle Support, just far enough to easily (not tight, not loose) accept and hang the Power Box unit. Use the washers and nuts to secure the bolts firmly in place on the inside face of the Vertical panel.

FINISHING SUGGESTIONS

The high quality interior grade plywood used in your MINIBOSS flight box kit lends itself to a variety of finishing methods. Here at SIG, we really enjoy the look of the wood itself and decided to use a quality clear finish to enhance and retain it. If you also like this look, the procedure is included in the following finishing suggestions. Of course there are several practical ways to finish your MINIBOSS and we've included a few of these ideas as well. Whatever method you choose, take your time and enjoy the process. Always be sure to work in a well-ventilated area and to use proper eye protection when working with chemicals.

1) NATURAL WOOD, HIGH GLOSS OR MATTE FINISH:

After thoroughly cleaning the flight box, drawers, etc. with compressed air and/or a good tack rag, we applied a thin coat of clear Interior/Exterior Urethane Acrylic. This material is used for a variety of wood finishing requirements, including gymnasium floors, etc. It is tough! It also has the side benefit of being highly UV (sunlight) resistant. It is most widely used for finishing wood floors and is typically available in either gloss or matte formulas. It is sold under a variety of brand names. The material we used has the trade name of MAXTECH™, produced by Premier Coatings, Inc., Elk Grove Village, Illinois.

After the first thin coat has dried (best if left overnight), we sanded all coated surfaces with #220 sandpaper. This leaves a very smooth surface, which is then ready for the second, final coat. Again, clean all surfaces with a tack rag, removing all dust and debris. Apply the second coat. We used a 2" foam brush and were careful to avoid runs. Finish each part separately and place them in a dust-free area to dry completely. The box is finished and ready to use.

2) FULL COLOR WITH TRIM ACCENTS

To do it right, a fully painted box requires primer that not only fills the wood grain but is also compatible with the type of paint that you intend to use. There are several such primers on the market and your local paint store will likely be able to come up with one that's easy to use. We have used and enjoy working with the 2-part primer marketed by Nelson Hobby Specialties. This premium primer covers very well, sands easily and is compatible with virtually any paint.

Nelson Hobby Specialties
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Unit 763
Hillsboro, OR 97123
Telephone: (503) 259-8899
Web Site: www.nelsonhobby.com

Once the flight box is primed, you can use paints such as epoxies or SIG's Supercoat Spray Butyrate Dope. SIG Supercoat Spray Dope is available in 29 great colors and that gives you a lot of choices! Supercoat Spray Dope is also perfect for adding trim colors and accents, if desired. Give it a try - you'll like it!

To add a color pattern, tape off your color scheme using good quality vinyl tape. If you are not using canned spray paints, we always suggest using an airbrush or touch-up gun to apply one color at a time. This is a great method when using Nelson's Water Reducible Polyurethane paints. When choosing your paints, always be sure that they are formulated to withstand UV exposure.

LIMIT OF LIABILITY

The craftsmanship, attention to detail and actions of the builder of this flight box kit will ultimately determine its durability and long term performance. SIG MFG. CO.'s only obligation shall be to replace those parts of the kit proven to be defective or missing. The user shall determine the suitability of the product for his or her intended use and shall assume all risk and liability in connection therewith.