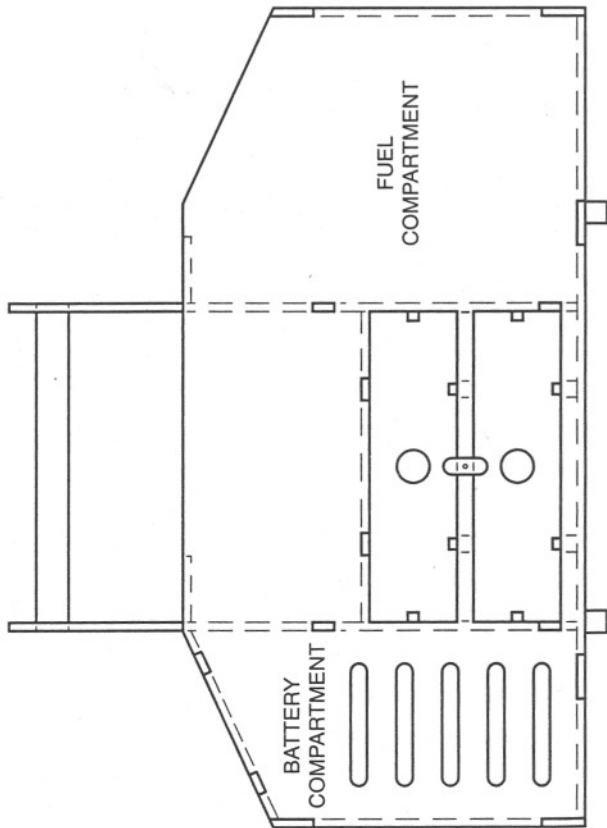
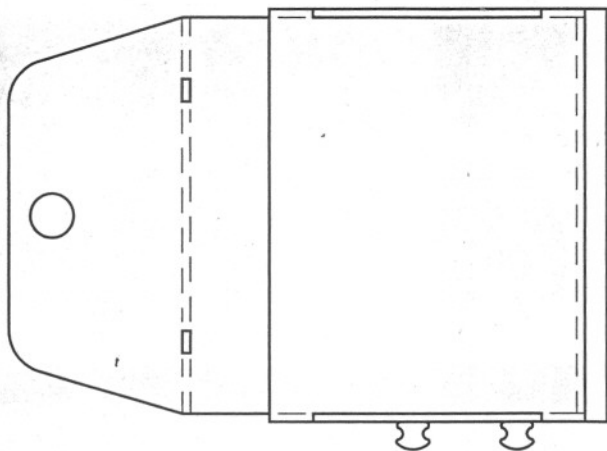


FRONT VIEW



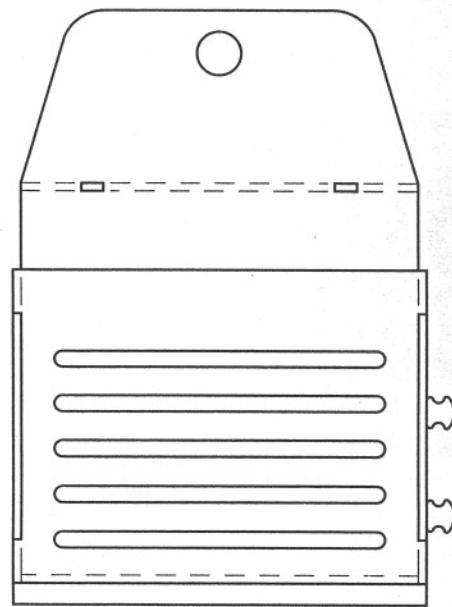
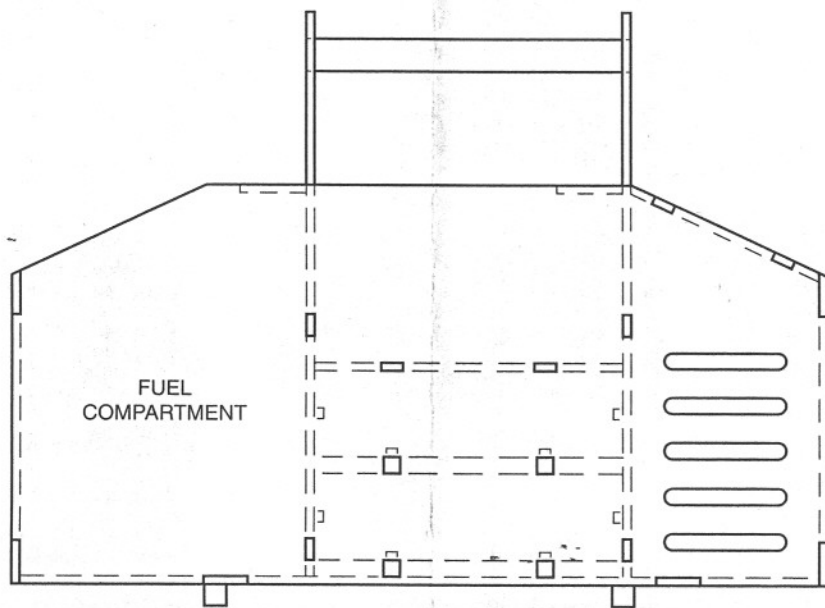
RIGHT END VIEW



W

BACK VIEW

LEFT END VIEW



GAS PASSER

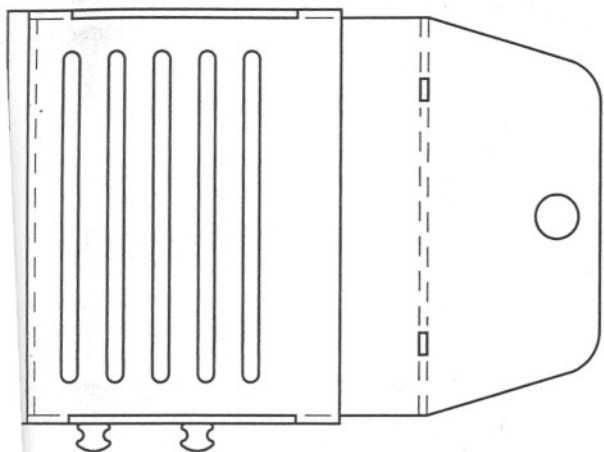
ASSEMBLY INSTRUCTIONS

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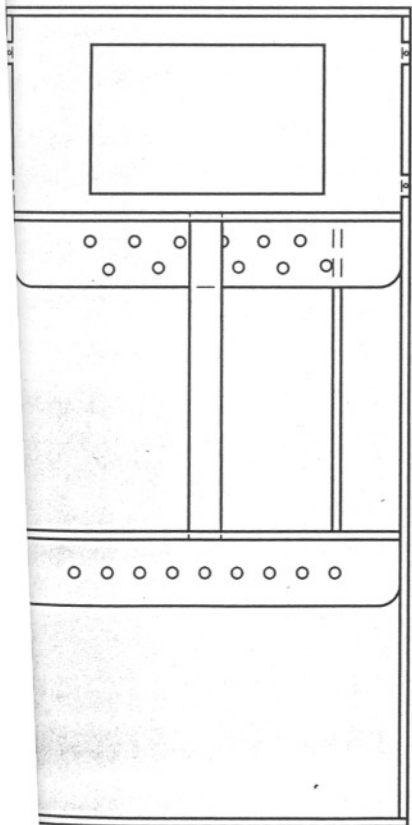
8) The individual drawers a following instructions apply to

Place the Drawer Floor on y
Drawer Side in place, oppo

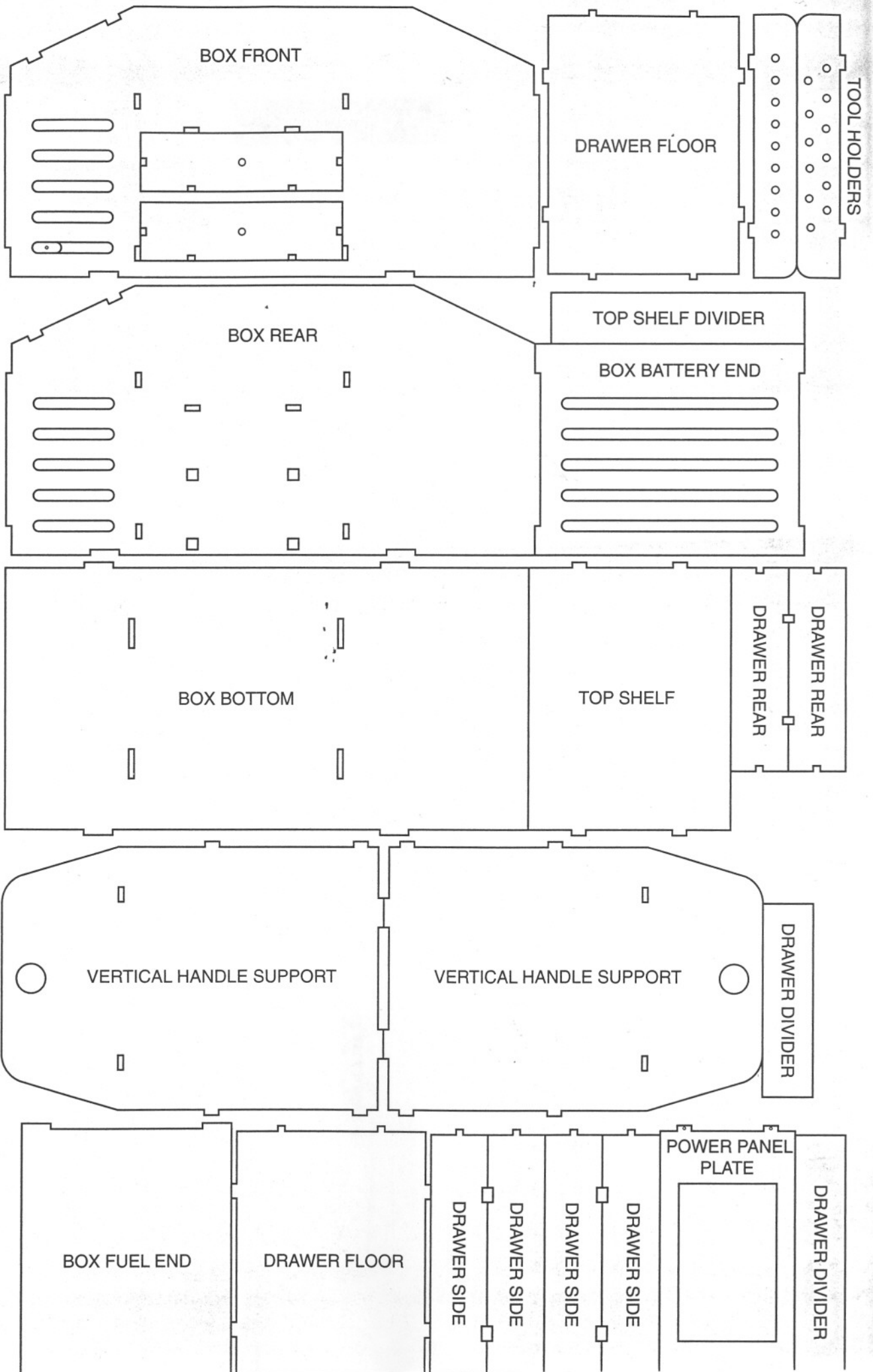
LEFT END VIEW



TOP VIEW



KEY TO LASER CUT PARTS





GAS PASSER

ASSEMBLY INSTRUCTIONS

SIG "GAS PASSER" (KIT #BX003)

The SIG "GAS PASSER" 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 GAS PASSER 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, CARPENTERS TRIANGLE, MASKING TAPE, PENCIL
SANDING BLOCK OR VIBRATING PALM SANDER, PLUS 80 AND 220 GRIT SANDPAPER
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 GAS PASSER flight box. We suggest you study the assembly of the GAS PASSER 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 GAS PASSER 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.

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 GAS PASSER.

BASIC ASSEMBLY

1) Place the Box Rear on a flat work surface, with it's inside face facing you and the Battery Compartment at your right. Fit the two

BASIC ASSEMBLY

1) Place the Box Rear on a flat work surface, with it's inside face facing you and the Battery Compartment at your right. Fit the two Vertical Handle Supports into the vertical tabs in the Box Rear. Holding the Handle Supports in place, use a pencil to strike a line along its length onto the Box Rear. Remove the Handle Supports and apply a bead of thick CA glue along the joint line, inside of the pencil line. Carefully reposition the Handle Supports in place at 90° upright. Hold both pieces together firmly and spray the joint with accelerator.

2) Locate the Box Bottom and check the fit of the tabs in the bottom of the Vertical Handle Supports, to the slots in the Box Bottom, again use a pencil to mark where the glue will be applied. Remove, and apply the CA, and carefully reposition the assembly onto the Box Bottom. Hold firmly and spray the joints with accelerator.

3) Lay the box assembly on its back, with the Box Rear panel flat on your work surface. Locate the Box Front panel. Take out the small laser cut piece that is in the lower right hand slot, this will be used as a drawer stop in step 14. Check the fit with the tabs in the Handle Supports and the Box Bottom, apply glue to the edge of the Vertical Handle Supports and the Box Bottom, where it contacts the Box Front 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.

4) Trial fit the Top Shelf into the Box Rear, between the two Vertical Handle Supports, and the Box Front. The four tabs should line up with the two slots in the Box Front and Box Rear. Once satisfied with the fit, remove the Top Shelf and apply glue to the edges of each mating surface. Use weights to hold it firmly in contact with the other parts and spray accelerator on the glue joints to set the adhesive.

5) Turn the box upright and facing you on your work surface. Locate the four (4) 3/8" sq. x 9-1/4" basswood Drawer Supports. Use a sanding block to lightly smooth each side of these four 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 1-9/16" in from the Left Vertical Handle Support panel and 1-9/16" 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.

6) The remaining 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 using. 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.

7) Locate the Box Fuel End. The Box Fuel is now glued in place to the right end of the flight box. Engage each tab into its respective slot, making sure of full contact to each gluing surface. Locate the Box Battery End and glue it in place on the left end

The high quality interior grade SIG, we really enjoy the look and feel, the procedure is included in the Passer and we've included a Passer. Always be sure to work in a well

1) NATURAL WOOD, HIGH GLOSS
After thoroughly cleaning the interior/exterior urethane acrylic, etc. It is tough! It also has a high gloss and is typically available in either trade name of MAXTECH™, p

After the first thin coat has dried to a smooth surface, which is then free of debris. Apply the second coat in a dust-free area to dry

2) FULL COLOR WITH TRIM
To do it right, a fully painted box is what you intend to use. There are several products that's easy to use. We have used a primer covers very well, sands

Nelson Hobby Specialties
2900 SW Cornelius Pass Road
Unit 763
Hillsboro, OR 97123
Telephone: (503) 259-8899
Web Site: www.nelsonhobby.com

Once the flight box is primed, you can use Dope is available in 29 great colors and accents, if desired. Give it

To add a color pattern, tape off the areas you always suggest using an airbrush. Reducible Polyurethane paints.

The craftsmanship, attention to detail, and long term performance. No defective or missing parts. The user assumes all risk and liability in connection with the use of the product.

NOTE: there is a top and bottom to this end, the larger solid area goes to the top of the box, that way the laser cut slots line up with the ones in the box front.

8) The individual drawers are now assembled. Both drawers are the same. 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 the 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.

9) The 1" dia. x 7-7/16" Dowel is 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.

10) Your Gas Passer flight box is essentially complete, requiring only drawer knobs, the 1/2" sq. x 9-3/8" 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.

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.

11) Glue the two 1/2" sq. x 9-3/8" hardwood stand-offs to the bottom of the main flight box (see drawings above).

12) After applying the final finish to your Gas Passer, use the supplied two #10 x 3/4" screws to secure the wood knobs to each drawer. Locate the drawer retainer and one of the #2 x 1/2" sheet metal screws. Drill a 1/16" hole in the center of the piece between the two drawers. (see drawing above). Then screw the retainer to the box using the #2 screw. This is a simple drawer retention system that works very well.

13) You can now glue in the tool holders in your box. Keep in mind that the holder that you glue on the power panel end has to be glued to the inside of the box. The other one can be glued on either side of the Vertical Handle Support.

14) Locate the Power Panel Plate and lay it in place on the box. You will need to sand an angle on the edge that butt's up against the Handle Support. After you get a good fit on the plate, using the laser cut holes in the plate as a guide drill the four holes in the Box Front and Box Rear with a 1/16" drill and put the remaining four #2 sheet metal screws in place to hold the plate in place.

FINISHING SUGGESTIONS

FINISHING SUGGESTIONS

The high quality interior grade plywood used in your Gas Passer 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 Gas Passer 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
2900 SW Cornelius Pass Road
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.