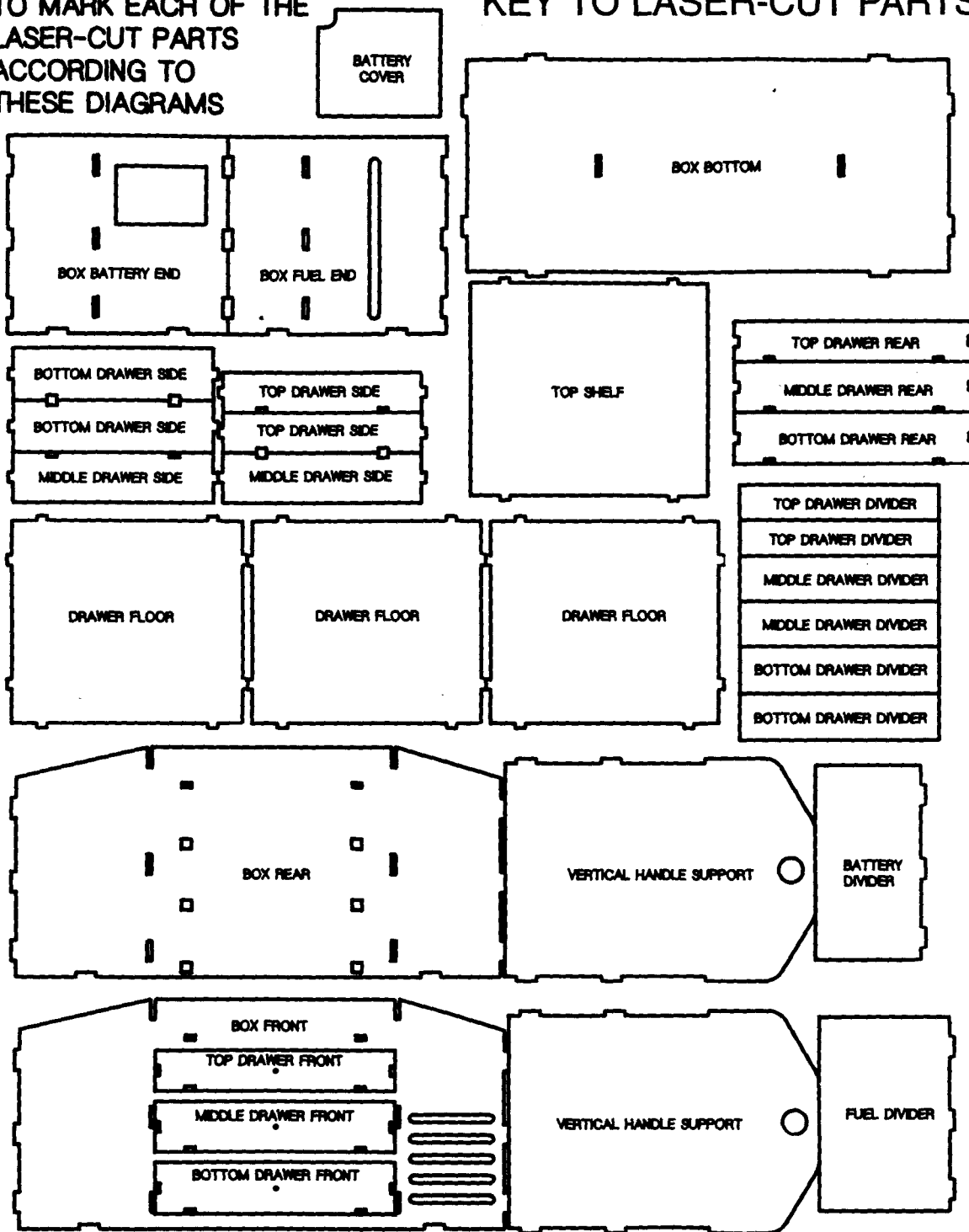
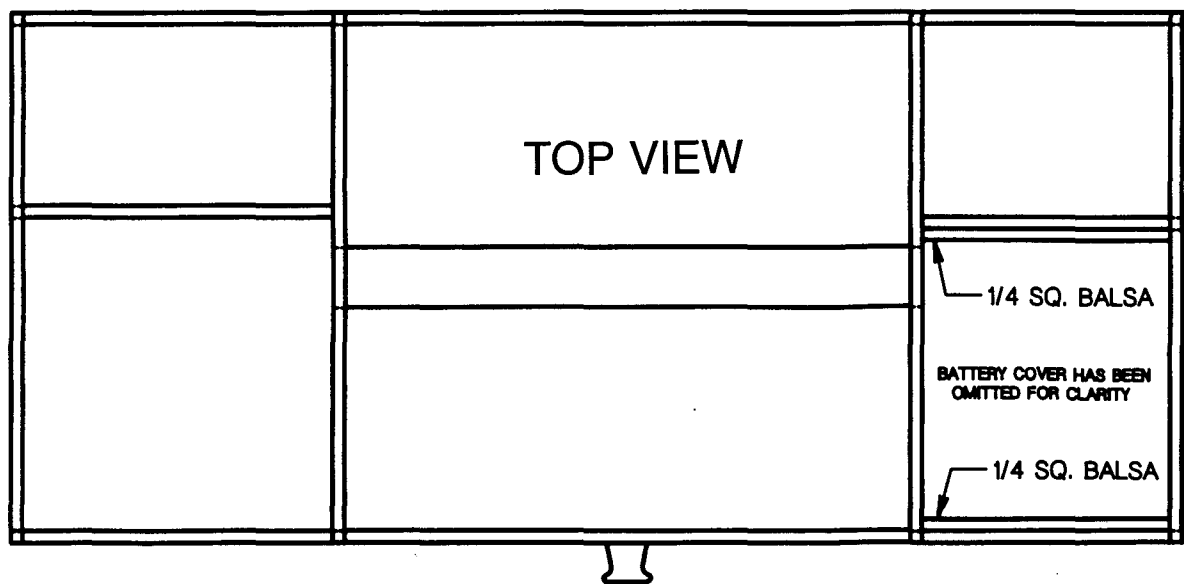
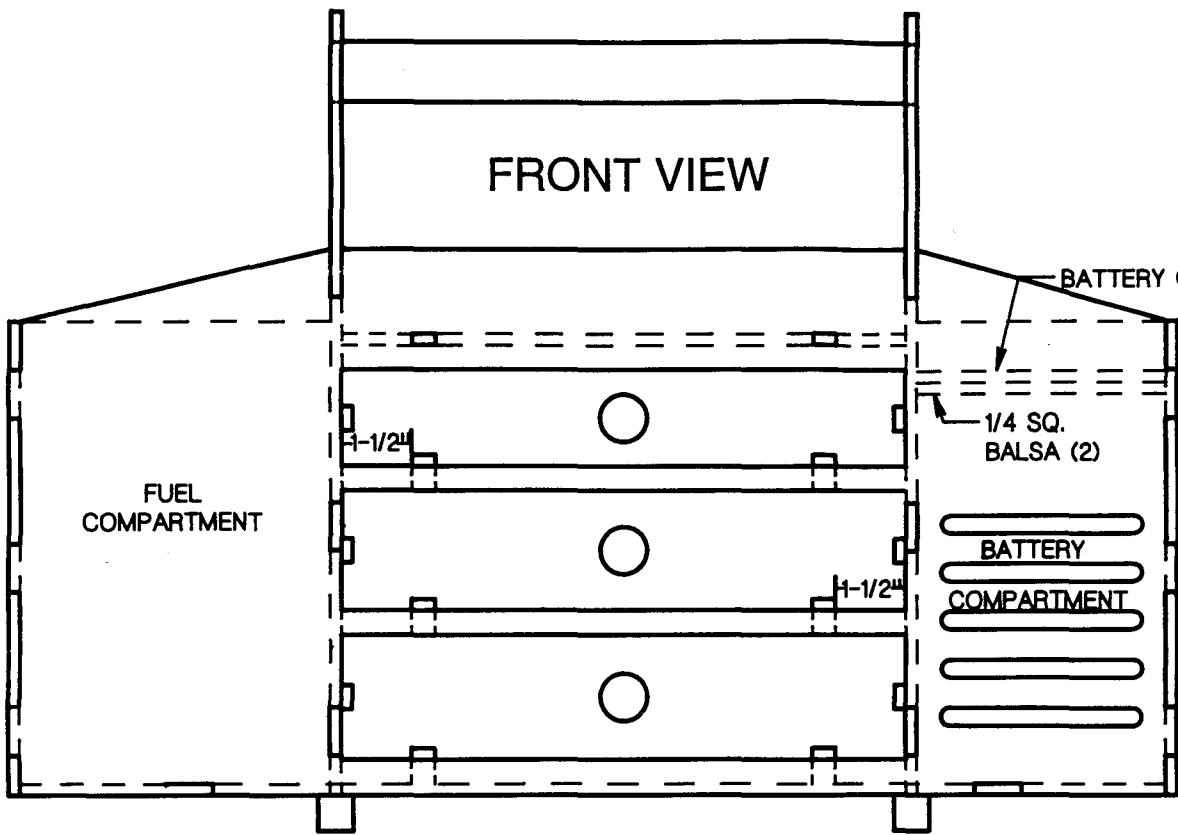


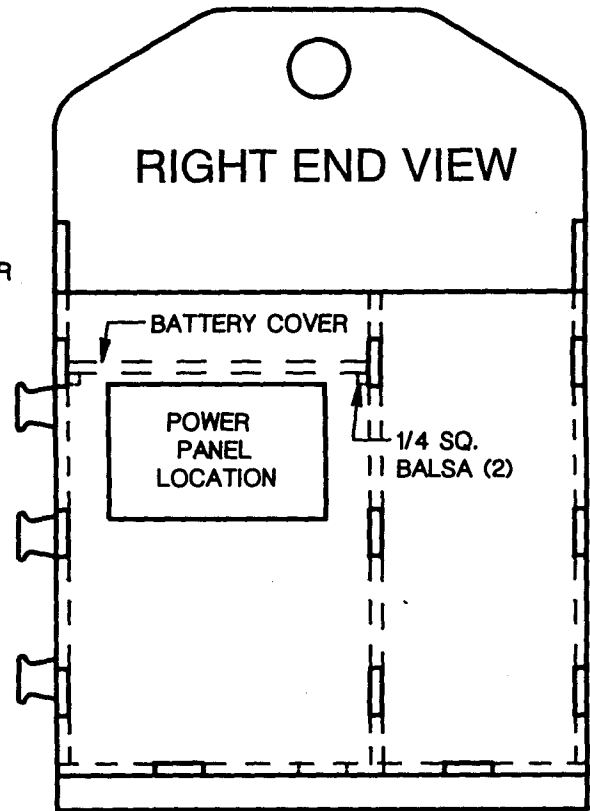
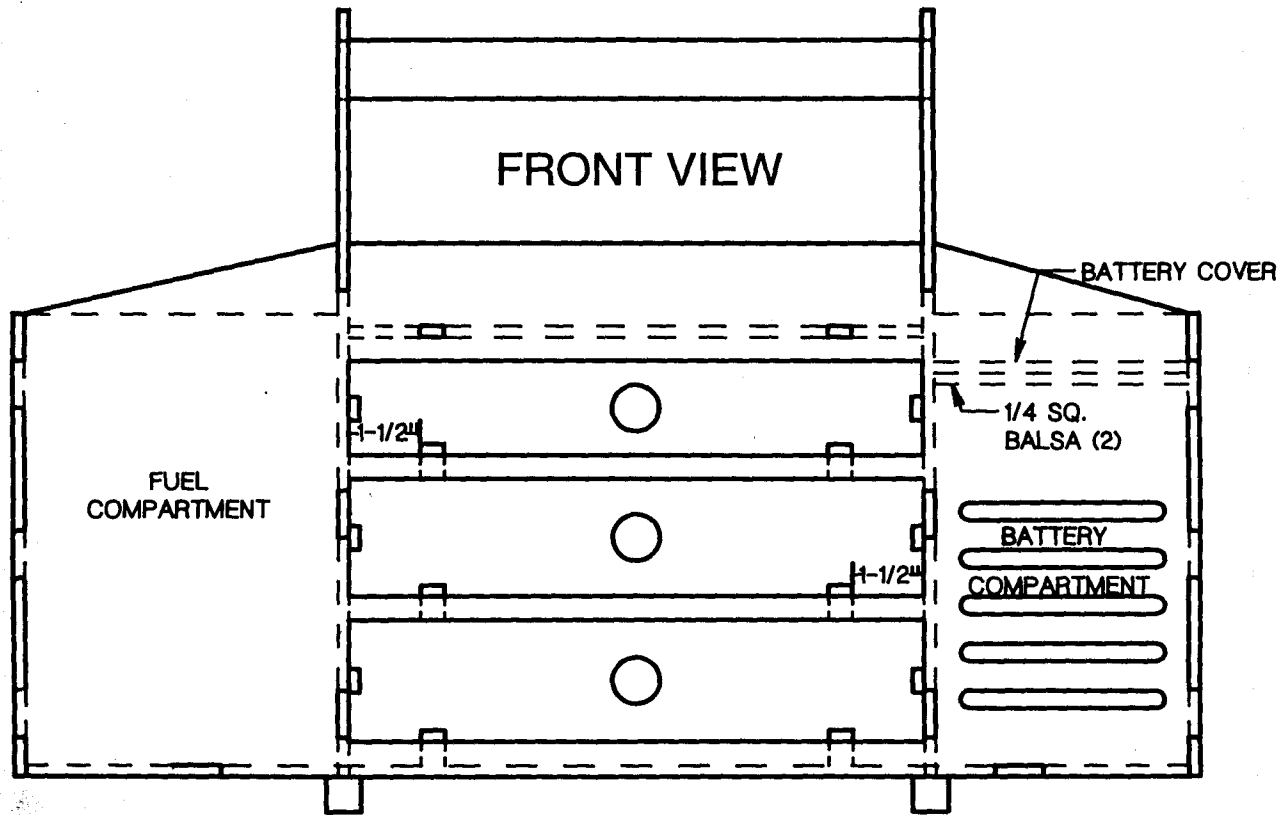
USE A PENCIL AND MASKING TAPE
TO MARK EACH OF THE
LASER-CUT PARTS
ACCORDING TO
THESE DIAGRAMS

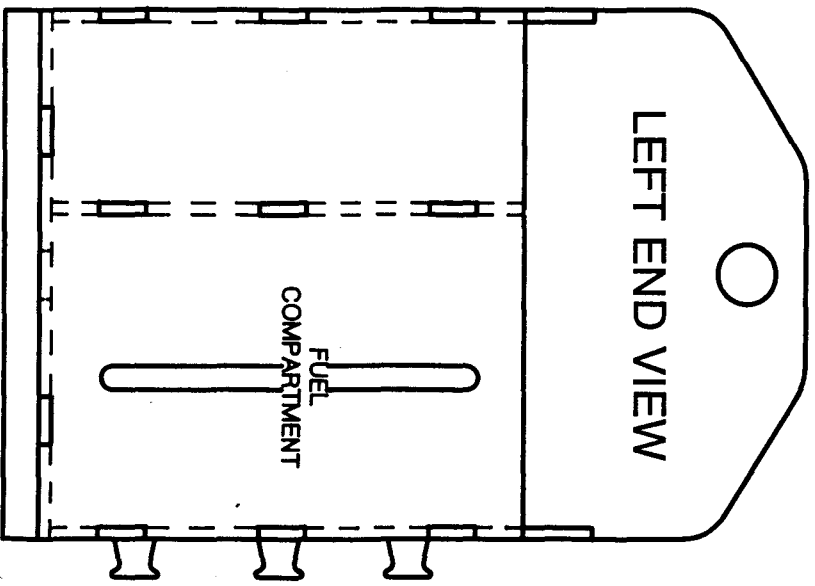
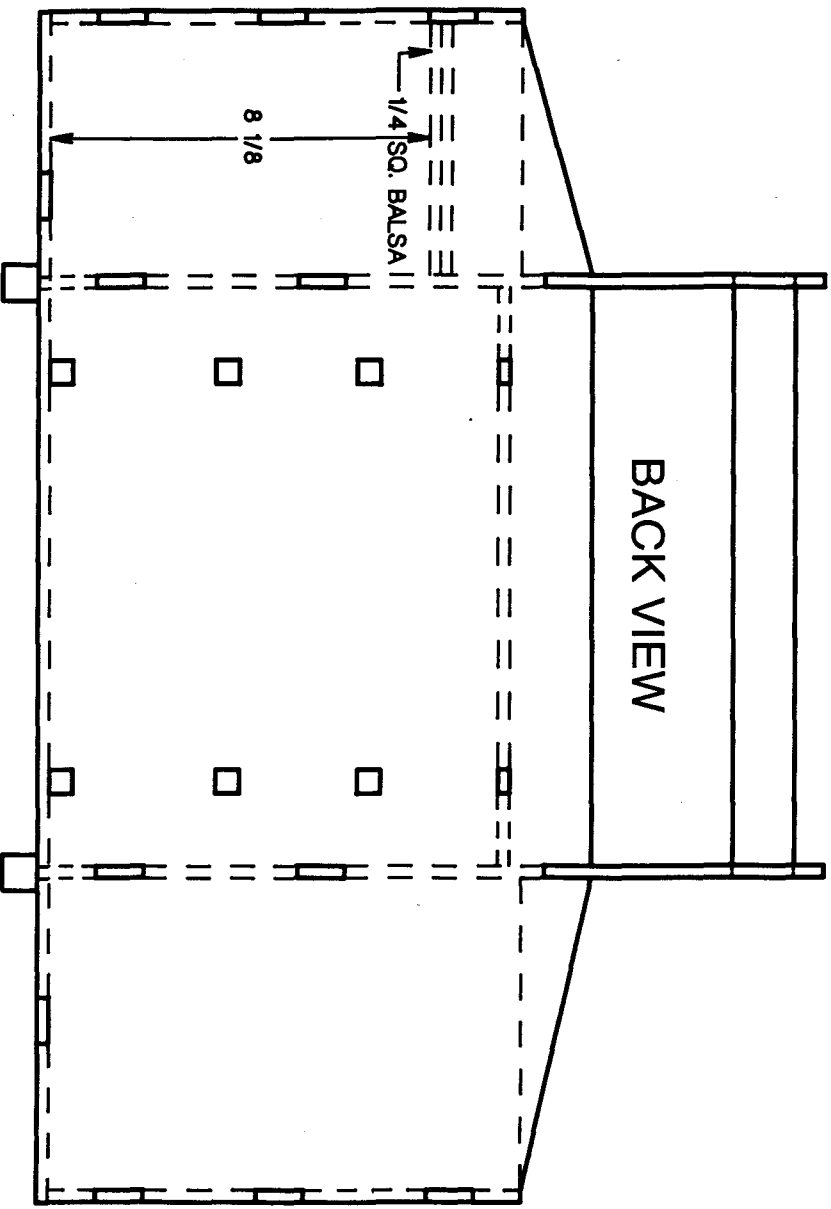
KEY TO LASER-CUT PARTS





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SIG "FIELDBOSS" (Kit #BX001)

The SIG "FIELDBOSS" flight box will likely be the last field box you will ever need for your R/C activities. It has been designed to be rugged, versatile and provide you with the most amount of useable space available in any kit-built flight box. Virtually every part of your FIELDBOSS has been laser-cut, assuring incredible accuracy and fit. Assembly is fast, easy and enjoyable. However, it is important to understand the assembly sequence and we therefore suggest you follow these simple construction steps.

These instructions will provide you with the basic FIELDBOSS flight box. This flight box lends itself to all kinds of personalized custom equipment installations, such as fuel pumps, charging systems, etc. We suggest you study the assembly of the FIELDBOSS and plan your own equipment installations ahead of time. For example, you may wish to pre-drill certain parts to allow the passage of electrical wiring between your fuel pump and the power panel in order to conceal it. It is easiest to do this *before* assembly. Because the laser-cut parts are so accurate, it is possible to assemble (dry-fit) the entire fieldbox together first, *without* using any glue. Doing this may give you some ideas as to where you might want to locate your own equipment and also demonstrates assembly.

Last, before actual building we suggest sanding the face surfaces of each of the laser-cut parts, using either a large sanding block or a vibrating palm sander, with 80-grit sandpaper. This removes the laser flash marks and makes each part clean, smooth and almost ready for finish. Also, check the fit of the handle dowel through each of the two vertical handle supports. If the fit is too tight, sand the dowel itself as smooth as possible. If the fit is still tight, sand the inner edges of each hole until the dowel slips through - not loose, just a smooth fit is all that's needed.

TOOLS AND MATERIALS REQUIRED:

SCREWDRIVER - SLOTTED	FINE-TOOTHED HOBBY SAW
CARPENTER'S TRIANGLE	MASKING TAPE
PENCIL	SANDPAPER - 80 AND 220-GRIT
LARGE SANDING BLOCK or	ELECTRIC VIBRATING PALM SANDER
SIG THICK CA GLUE	SIG KWIK-SHOT ACCELERATOR

(NOTE: Carpenter's glue or aliphatic resin type glues may be used to construct this product. However, be aware that these adhesives are slower setting and may require the use of clamps.

BASIC ASSEMBLY

1) Using the five assembly drawings above and the Key To Laser-Cut Parts diagrams to the left, locate each laser-cut part and identify it by writing its name on a strip of masking tape and attaching the tape directly to the part. In this way, the parts can be easily located and used for each step. We also suggest that as you locate parts for the three drawers, you create a separate stack of parts for the bottom, middle and top drawers. These each have a different depth but their bases are identical.

2) Begin assembly by placing the Box Base on a flat work surface with its front facing you. Note that the "front" of this piece will have the right vertical upright locating slot to your right - this slot is closer to the right edge than the one on the left (see front view). Now place the upright Box Rear panel in place to the back edge of the Box Base, engaging the tabs and slots. Note that the Box Rear panel has a left and right side as well. As viewed from the front, the vertical slots in the Box Rear panel are closer to the right edge than they are to the left edge - see front view. Holding the Box Rear panel in place at right angles to the Box Base, use your pencil to strike a line along the joint line. Remove the Box Rear panel, apply glue to its bottom edge, inside the pencil line and reposition it back in place against the Box Base, at 90° upright. Holding both pieces securely, spray the glue joint with accelerator.

3) The two Vertical Handle Supports (identical parts) are now glued in place to the Box Rear and the Box Base. NOTE: The tabs and slots provided will automatically align these parts properly to each other.

4) Place the thus completed assembly flat onto its back, with the Box Rear flat on your work surface. Locate the Top Shelf. Note that it fits in place between the two Vertical Handle Supports, at 90° to the Box Rear, with its two rear tabs engaging the slots in the Box Rear. Apply glue to *only* the *rear edge* of the Top Shelf part and fit in place into the tabs in the Box Rear. Use a triangle to position it properly and apply accelerator to the glue joint.

5) Locate and trial fit the Box Front panel into position onto the Box Bottom, Vertical Handle Supports and the Top Shelf. Take your time to make sure that all surfaces contact each other properly. Remove the Box Front and apply glue to the edges of each mating surface. Reposition Box Front in place. Use weights or clamps to hold it firmly in contact with the other parts and apply some accelerator to each of the

glue joints. Now turn the assembly upside down on your bench. You should be able to look inside to see where the Top Shelf meets the inner sides of the Vertical Handle Supports. Carefully apply a bead of glue to each of these joints.

6) Turn the box upright and facing you on your work surface. Locate the six (6) 1/2" sq. x 11" Drawer Supports. Use your sanding block to lightly smooth each side of these six parts. With your flight box facing you, use a triangle and pencil to lightly mark a vertical line 1-1/2" in from the right drawer opening on the Box Front. This line should be on the bottom, middle and top drawer openings (see drawing). Repeat this procedure on the left side, marking a vertical line 1-1/2" in from the left drawer openings. Before gluing them in place, check the fit by sliding one of the Drawer Supports in place through the bottom drawer opening and into the either the right or left bottom rear 1/2" square cut-outs in the Box Rear. The Drawer Support fits against the Box Bottom and against the back inside face of the Box Front, with its outer edge lined-up with the pencil mark just made. Remove and apply glue to one side (only) of the Drawer Support and glue it in place to the Box Bottom. Repeat this procedure for the other side.

The 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, with their outer edges aligned with the previously made pencil marks. It helps to pre-fit each piece, making sure of the fit **before** gluing them in place. 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 these supports to insure proper drawer clearance and operation.

7) Locate the **right** end panel - Box Battery End. This panel has a cut-out for your power panel (NOTE: We have left the filler piece in this cut-out in case you decide to place your panel in a different location. This filler piece can be simply glued in place, its edges filled and sanded for later painting, if you so desire. Also, you may find that your power panel needs a larger cut-out - now is the time to do this.). Also locate the Battery Divider panel and the 1/4" sq. x 12" length of balsa, used for the Battery Cover supports. First dry-fit these two panels together and then onto the **right** end of the flight box. Note that the Battery Divider panel fits correctly into the tabs in the Box Battery End panel in only one direction. If you have chosen to mount your power panel in the location provided, now is the time to install two (2) 5-1/4" lengths of 1/4" sq. balsa, just above the top of the power panel cut-out, exactly 8-1/8" above the Box Bottom floor. One support is glued onto the inner face of the Battery Divider panel and the other onto the inner face of the Box Front. Use your triangle and pencil to mark the locations for these supports, cut them to length and glue them in place.

Glue the Battery Divider panel in place to the inside face of the right Box Battery End panel, at 90°. The Box Battery End panel/Battery Divider assembly is now glued in place to the **right** end of the flight box, being sure to engage each tab, ensuring full contact. The Battery Cover should fit easily in place, directly over the power panel/battery compartment and onto the 1/4" sq. balsa supports.

8) The Fuel Divider panel is now be glued in place to the inside face of the Box Fuel End panel, at 90°. 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. Again, engage each tab, making sure of full contact to all gluing surfaces.

9) The individual drawers are now assembled - as mentioned above, be aware that each drawer is a different in depth which effects the fronts, backs and sides but *not* the bases. Also note that we have provided two (2) Drawer Dividers for each drawer. These allow you to customize each drawer for you own specific needs. Each drawer is built in the same way so these instructions apply to all three. Begin drawer assembly by first gluing one of the Drawer Sides to the Drawer Floor, at 90°. Glue the other Drawer Side in place on the opposite side. Glue the Drawer Rear in place to the Sides and Floor. Last, glue the Drawer Front (these have a single hole for the knob screw) in place to the Sides and Floor. This completes the basic drawers. You can cut, fit and install the extra dividers into each drawer after the field box is finished. Likewise, the drawer knobs can be attached after final finishing.

10) The 1-1/4" dia. x 12-1/2" Handle Dowel is now fitted into place through the two holes at the top of the Vertical Handle Support panels (see introduction above). You should have little, if any, excess dowel protruding from either side of the Handle Supports. However, if you do, mark and trim-off any excess **before** gluing the handle in place.

11) Your FIELDBOSS is essentially finished, requiring only drawer knobs, the 3/4" sq. x 11" bottom stand-offs and the finish of your choice. Before you do any these however, the box itself and the individual drawers require sanding. As mentioned earlier, the use of 80-grit sandpaper and an electric palm sander will make this job go quickly. It can also be done with a larger sanding block but will require more effort. **Always wear a sanding mask and ear protection if you use a power sander.** Sand all tab and slot joints carefully to smooth them to the surface of the box. The drawers should likewise be sanded smooth, allowing them to slip

easily into their respective openings. Once satisfied with the overall look and feel of the box, switch to 220-grit sandpaper and sand once again. You will find that the feel of the box and drawers gets extremely smooth and ready to finish.

12) After sanding, glue the two 11" lengths of 3/4" sq. hardwood stand-offs to the bottom of the flight box, directly beneath the Vertical Handle Support panels - see front view. Their ends should be sanded smooth to the front and rear faces of the box.

13) After applying the finish to your FIELDBOSS, use the three (3) #10 x 3/4" screws supplied to attach the three wood drawer knobs to each drawer. The provided drawer retention method is made from the 3/4" x 3" length of Velcro™ tape supplied in your kit. Simply cut the tape into three equal 1" lengths. One side of the tape is adhered to the back, center face of each drawer. Press the corresponding piece of Velcro™ to its mate, remove the protective paper from its adhesive side and slide the drawer in place, pressing it firmly against the back of the box. The drawer is now retained in place but can be easily removed by pulling slightly to release the grip of the Velcro™. Repeat this step for each drawer.

FINISHING SUGGESTIONS

The high quality interior grade plywood used in your FIELDBOSS flight box kit lends itself to a variety of finishing methods. We at SIG really enjoy the look of the wood itself. If you also liked this look, we have included the procedure we used to create it in these suggestions. Of course there are several practical ways to finish your own FIELDBOSS and we've included a few of these ideas as well. Whichever method you choose, take your time and enjoy the process. **Be sure to work in a well-ventilated area and to use eye-protection when working with any chemicals.**

1) NATURAL WOOD, HIGH GLOSS OR MATTE FINISH (gloss shown on the label):

After final sanding, we used compressed air and a tack cloth to remove all dust from the box, drawers and knobs. We then brushed on a thin coat of clear gloss 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 finish. 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 cloth to remove any dust particles and apply the second coat of urethane acrylic. We used a 3" sponge brush and were careful to avoid runs. Finish each component separately and place them in a dust-free location, allowing them to dry completely.

To add a color pattern, tape off your color scheme using good quality vinyl tape. We suggest using an airbrush to paint one color at a time, using K & B Ultrapoxy™ 2-part paint. We like 2-part epoxy paints because of their toughness and ability to withstand UV exposure without fading. Almost any other kind of paint can be used including spray cans. Just be sure that the paint you use will not fade with exposure to sunlight.

2) FULL COLOR BOX WITH TRIM ACCENTS

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

Once your flight box is primed, you can use paints such as epoxies or SIG's Supercoat Spray Butyrate Dope, to create a beautiful finish in a minimum amount of time. SIG Supercoat Spray Dope is available in 29 great colors which gives you a lot of choices. Supercoat Spray Dope is also perfect for adding trim colors if so desired. Give it a try - you'll like it.

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.