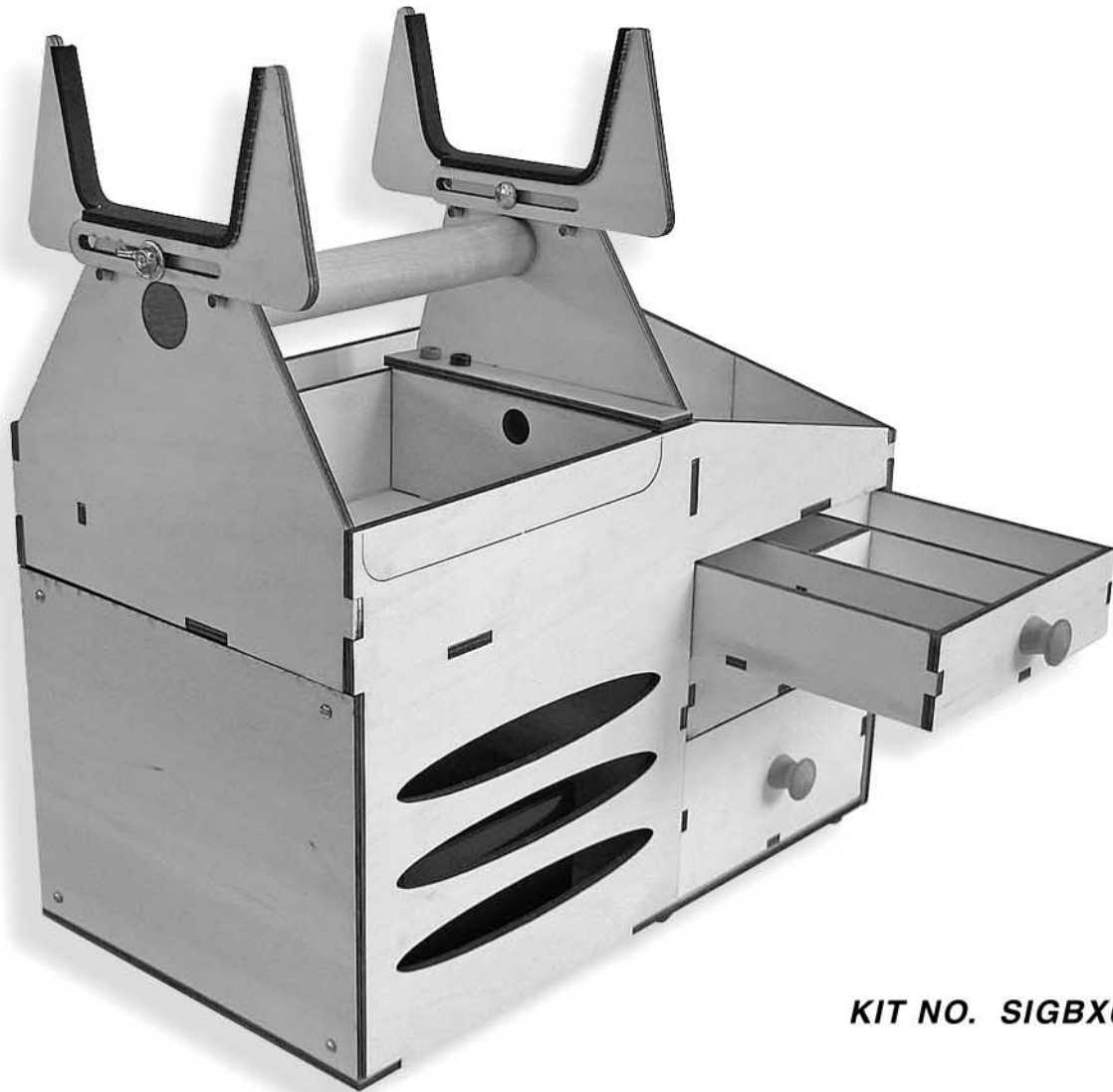


ASSEMBLY MANUAL



E-Pro Fieldbox

DESIGNED FOR ELECTRIC POWERED MODELS



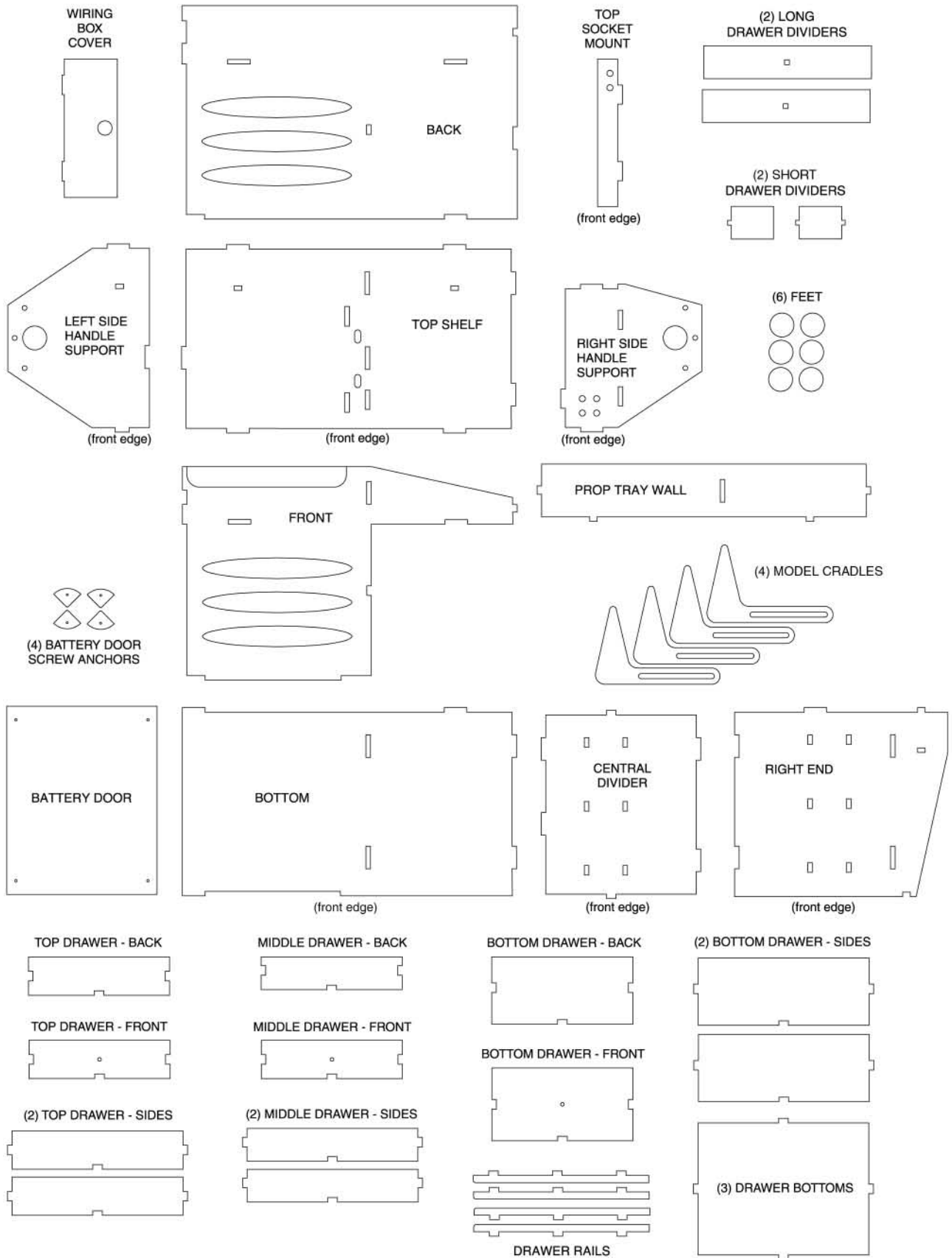
KIT NO. SIGBX004

SIG MFG. CO., INC.

PO Box 520 Montezuma, IA 50171-0520
www.sigmfg.com

KEY TO LASER-CUT PARTS

Identify each laser cut part according to this diagram and mark the name on each part with a pencil.



SIG E-PRO FIELDBOX ASSEMBLY MANUAL

The SIG E-PRO FIELDBOX has been specially designed for the hobbyist who operates electric powered models. The E-PRO box features an extra large enclosed compartment for carrying one or two high capacity lead-acid or gell-type charging batteries; electrical banana plugs for quick connecting your field chargers to the 12volt power supply; three drawers to hold the all your small tools and extra parts; three large open top compartments for your extra props and flight batteries; and adjustable cushioned "cradles" on top of the box to hold your airplane off the ground while you work on it or change the battery pack.

Virtually every part of the E-PRO FIELDBOX has been precisely cad drawn and laser cut, assuring incredible accuracy and fit, and making assembly quick and easy.

Tools & Supplies Required For Assembly:

- Basic Hand Tools: Screwdriver, Pliers, 90° Square
- Sandpaper (various grits)
- Sanding Block or Vibrating Electric Sander
- Masking Tape
- Pencil
- Paint or Varnish Finish
- Glue*

*Note: Carpenter's wood glue, epoxy glue, or CA adhesives can all be used to build this kit. However be aware that slow drying adhesives will require clamps to hold the parts in proper position while the glue dries.

We suggest that you study this assembly manual carefully to understand the assembly sequence and final layout of the flightbox. Plan ahead for the installation of your own specific charging equipment and how it will mate up with the materials supplied. In most cases, you should not need to make any significant modifications to the layout of the box, but it is always best to look and plan ahead.

It is also a good idea during assembly to trial fit each part "dry" before applying any glue. That way you will know that the part will slip cleanly into place after the glue is applied. Occasionally, you may need to trim a sliver of wood off an edge or corner.

Notes Before Beginning:

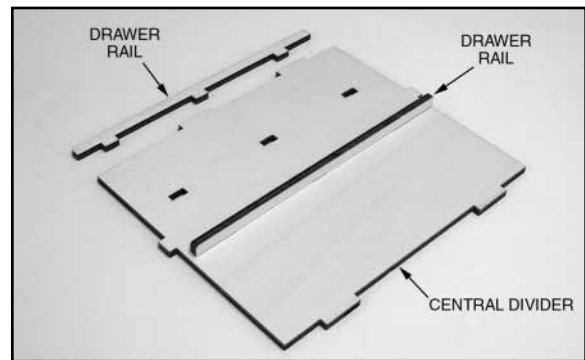
Please note that references to "right" and "left" refer to your right or left when you are looking directly at the front (drawer) side of the box - with the battery on the left and the drawers on the right.

The construction of this flight box is based on an interlocking tab-and-notch system. If all parts are put together in correct sequence, and installed squarely in correct position on a flat surface, the box should go together smoothly. Some plywood pieces may be slightly warped when you take them out of the box, but they will normally straighten out when installed in position.

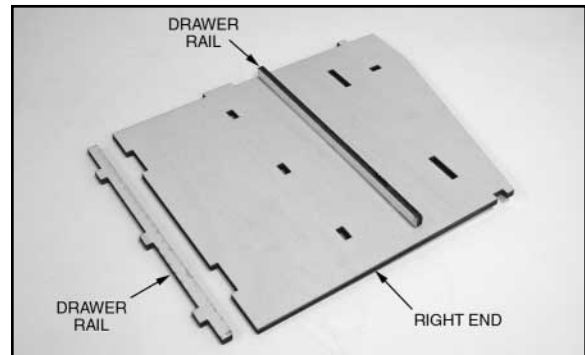
You can save some time by building different parts of the box at the same time. For instance, you can work on the drawers at the same time parts of the main box are drying.

BEGIN ASSEMBLY

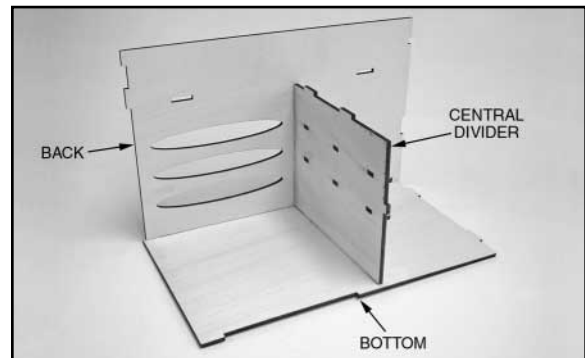
1) Glue two Drawer Rails, for the middle and top drawers, to the right hand side of the Central Divider. Be careful to correctly identify the bottom and top edges of the divider, as the tabs on top are not symmetrical. Study the picture carefully.



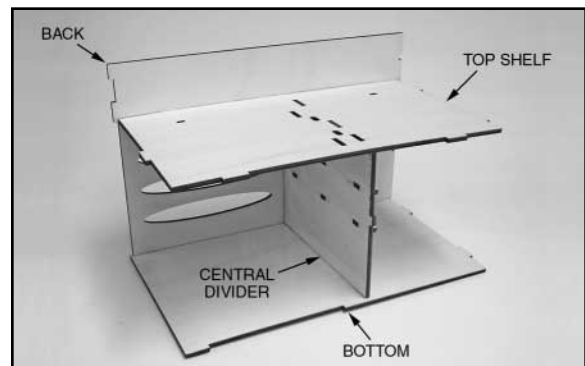
2) Glue two corresponding Drawer Rails to the inner side of the Right End part. You can identify the top front clearly, because the top edge is sloping towards the front.



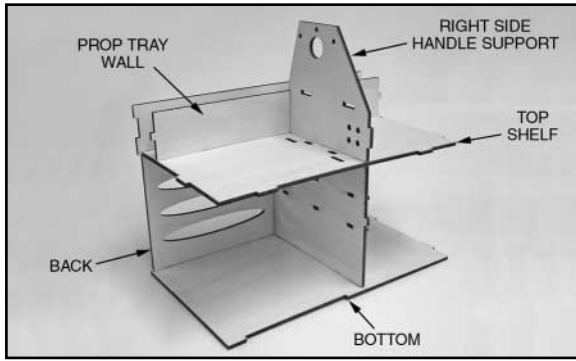
3) Glue the Central Divider and the Back in correct position on the box Bottom, all at the same time. Be careful that the Bottom rests on a flat surface and that there are no gaps between the parts to assure that the box assembly stays square.



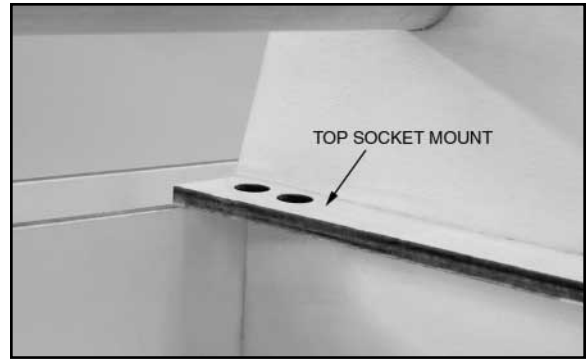
4) Glue the Top Shelf in position on the Central Divider and to the Back. Again, avoid gaps between the components and make sure everything remains square.



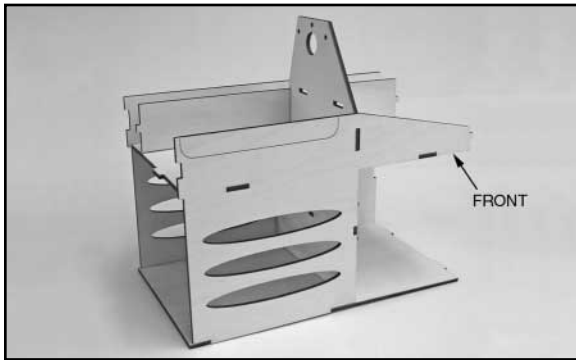
5) Glue the Right Side Handle Support and the Prop Tray Wall in place. Keep everything square!



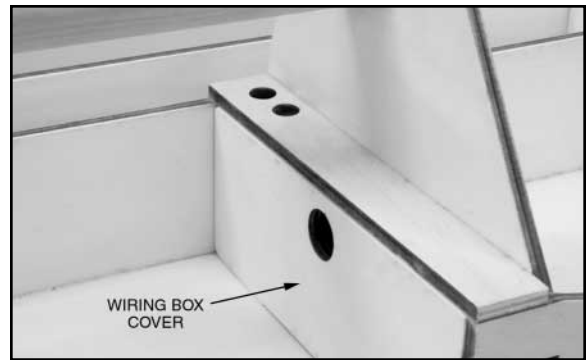
Right Side Handle Support and to the top of the box Front and the Prop Tray Wall. The two holes should be towards the rear.



6) Glue the Front in position, applying glue everywhere it contacts another piece.



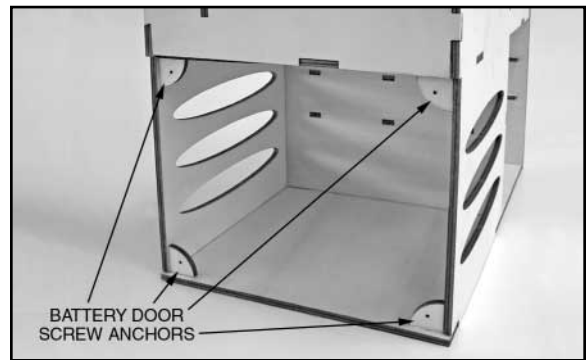
10) Fit the Wiring Box Cover into the space under the Top Socket Mount. The Wiring Box Cover will not be glued in place! It should be removable for wiring purposes. When you first try to slide the cover in place, it will be tight. Slightly round the top and bottom edges of the cover and bottom tabs until you get a nice tight fit.



7) Glue the Left Side Handle Support in position, applying glue everywhere it contacts another piece. When dry, trial fit the Battery Door in place and adjust the edges if necessary.



11) Glue the four quarter-round Battery Door Screw Anchors in the corners of the battery compartment opening. Be sure to install them flush with the front and back sidewalls so that the Battery Door will fit properly.



8) Glue the Right End in place. Make sure the Drawer Rails (installed back in Step 2) are on the inside.

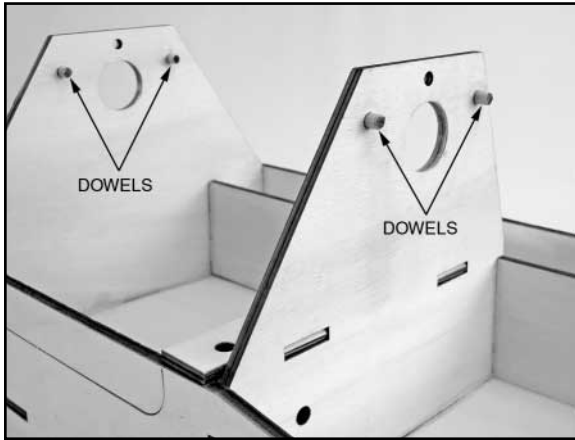


12) Turn the box over and glue the six round Feet to the bottom of the box, in approximately the locations shown here.

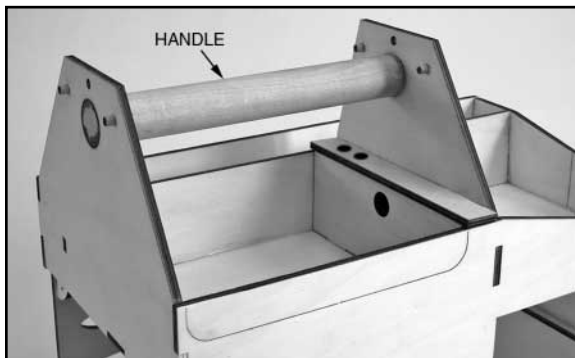


9) The Top Socket Mount is now glued to the left side of the

13) Glue the four 1/4 dia. x 3/4" hardwood Dowels in place, which will support the adjustable Model Cradle Arms. The dowels should protrude equally from each side of the handle supports.



14) The hardwood dowel Handle is now fitted through the two round holes in the Handle Supports and glued in place.

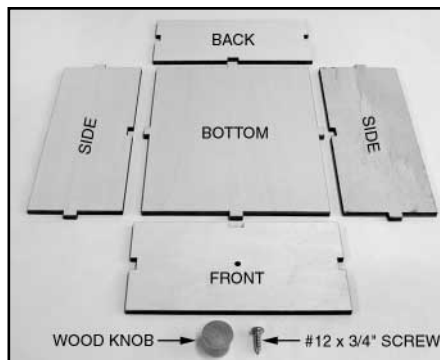


15) Trial-fit the Battery Door in place on the left hand side of the box. Four #4x1/2" Screws are provided to attach it to the box.



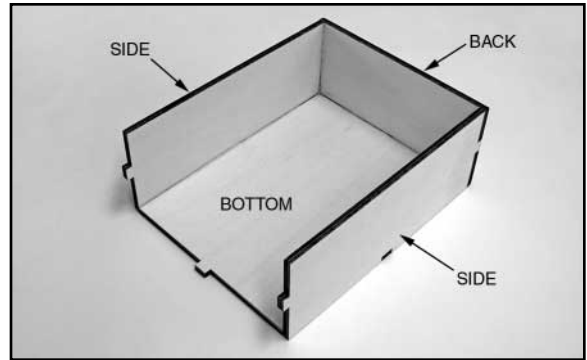
DRAWER ASSEMBLY

NOTE: Each of the drawers is different in height, therefore most of the parts are not interchangeable. However the front panels of the two upper drawers are identical, as are all three drawer bottoms.

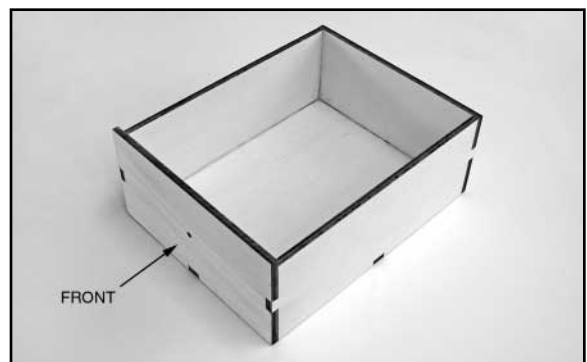


All three drawers are assembled in the same way and the following instructions apply to all of them.

1) Place a Drawer Bottom on your flat work surface. Glue the Sides and the Back to the Bottom, each at 90°.



2) Last, glue the Drawer Front in place.



3) Each finished drawer should be sanded smooth and test fitted into its appropriate opening in the front of the E-Pro box. Make any adjustments required to achieve a smooth, flush fit. Do not install the Drawer Knobs or Dividers at this time. Proceed to next step.

FINISHING THE E-PRO FIELDBOX

Sand all surfaces of the box and drawers smooth in preparation for applying a protective finish. You can paint your box with any weatherproof varnish or paint that is suitable for use on wood. We used water-based clear polyurethane varnish and have been very happy with the results. It's tough and waterproof when dry. Once the box is thoroughly dry you can proceed with the final assembly.

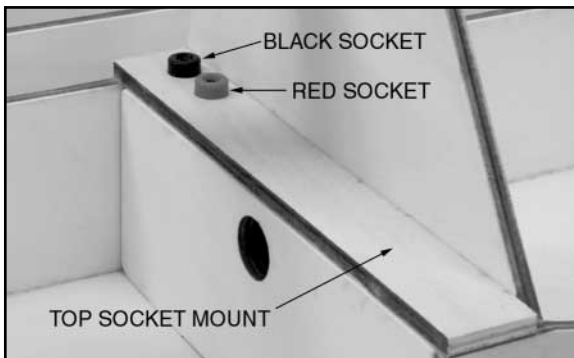
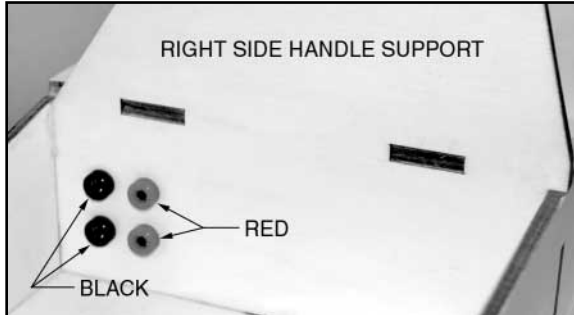
1) Install the Drawer Pull Knobs on the front of each drawer with the #12x3/4" Screws provided.

2) A set of two Long Dividers and two Short Dividers are provided for use in the top drawer, if you desire. They are optional and can be installed as you see fit. You can use just one, or all four, in different arrangements. You can see in the photo on the front of this manual how we installed 3 of the dividers (2 long and 1 short) in the top drawer.

3) Cut the 3" long "hook and loop" (Velcro®) tape provided into 3 equal 1" long pieces. Remove the paper backing and stick the "loop" (fuzzy) piece in the center on the back of each drawer. Then remove the backing from the mating "hook" piece and attach it to the piece already on the back of the drawer - with the adhesive side exposed. Slide the drawer into it's proper slot and push it all the way to the rear with enough force so that the velcro strip sticks to the back of the box when you pull the drawer out.

WIRING THE E-PRO FIELDBOX

1) Install the six Banana Plug Sockets that are provided. Install 4 of them (2 red, 2 black) in the 4 round holes in the bottom of the Right Side Handle Support. Install the other 2 sockets (1 red, 1 black) in the 2 holes in the Top Socket Mount. Note: These sockets provide you with three 12volt charging stations for powering your 12volt field equipment. Install the Banana Plugs themselves on your field charger(s) or other 12volt accessories.



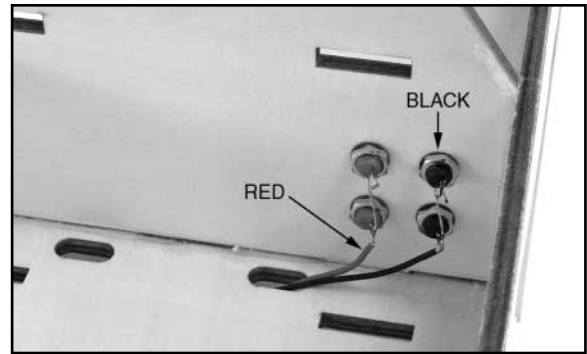
2) Cut the supplied 36" long piece of Red Electrical Wire in half, giving you two 18" long pieces. Do the same for the Black Electrical Wire provided, making two 18" long pieces.

3) Strip both ends of each wire. Then "tin" the bare ends of each wire with solder to make them stiff and keep them from unraveling (i.e. "tinning" means to melt solder into the bare end of each wire).

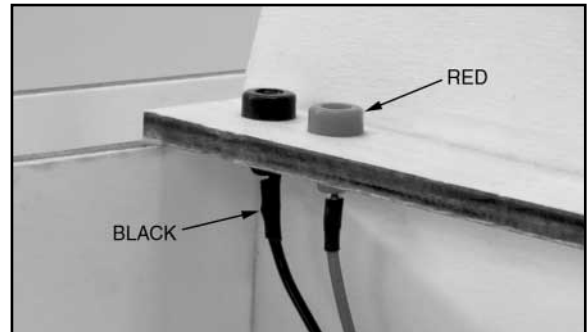
4) Twist one end of both Red Wires together and solder on a Battery Connector (not supplied) that will fit your charging battery. Do the same to both Black Wires - joining one end of each Black Wire together and soldering on a suitable Battery Connector.



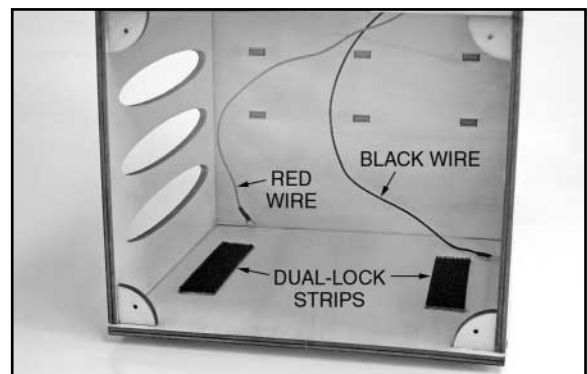
5) Poke one Black and one Red Wire up from the battery compartment through the oblong hole nearest the back side of the four Banana Plug Sockets in the Right Handle Support. Solder the Black Wire to both Black Sockets, and the Red Wire to both Red Sockets. Note: You will need to strip a bit more plastic off the ends of the wires to allow you to connect both same colored sockets to one wire, as shown.



6) Thread the second set of Red and Black Wires up through the oblong hole nearest the two Banana Plug Sockets in the Top Socket Mount. Solder each wire to its corresponding socket.



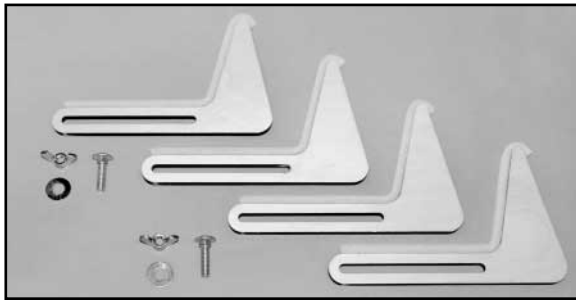
7) A strip of 1" wide X 19-1/2" long "dual-lock" plastic tape is provided for holding your charging battery in place. Cut the strip into four equal length pieces, and apply two of the pieces to the bottom of your battery and the other two to the floor of the battery compartment. This material makes a very strong connection and will keep your heavy charging battery from shifting.



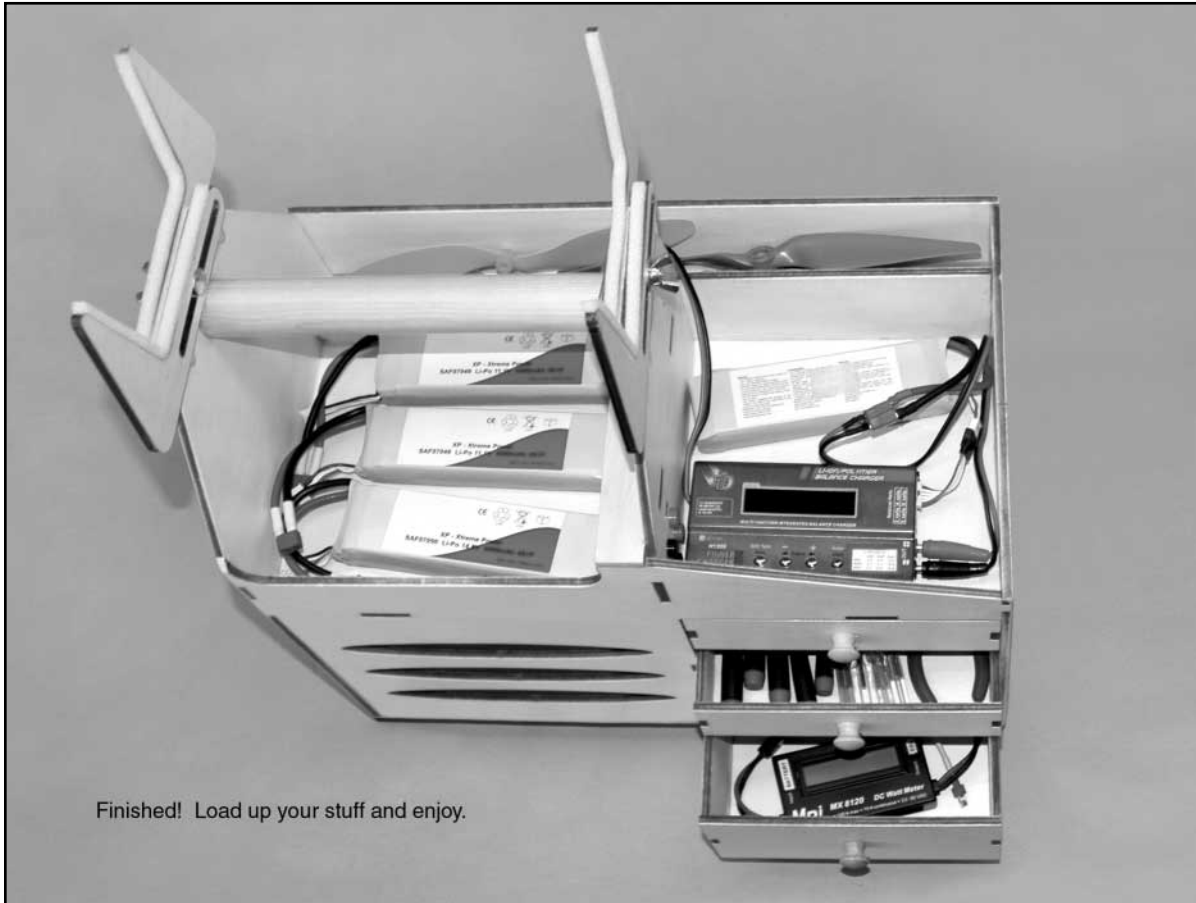
8) Install your 12 volt charging battery and connect the red and black wires. **IMPORTANT:** Always make sure the battery clips are shielded to prevent shorting out, and that they are firmly connected to the battery to prevent arcing.



9) Prepare the four adjustable Model Cradle Arms by applying the soft self-adhesive Cushion Tape on the top surfaces.



10) Install the Model Cradle Arms on top of the box with the 1/4-20 x 1" Carriage Bolts, Washers, and Wing Nuts provided.



CUSTOMER SERVICE

SIG MFG. CO., INC. is committed to your success in both assembling and using the E-PRO FIELDBOX kit. Should you have any questions about building this kit or discover any missing or damaged parts, please feel free to contact us.

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LIMIT OF LIABILITY

The craftsmanship, attention to detail, and actions of the builder of this kit will ultimately determine the its final appearance and usefulness. SIG MFG. CO.'s 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.

ADD WHEELS TO YOUR E-PRO FIELDBOX!

with the



FIELDBOX WHEEL KIT

OPTIONAL

Order No. SIGBX004B



*DON'T CARRY IT!
ROLL IT!*

Universal Design - Now You Can Add Wheels And A Handle To Practically Any Wood Field Box!

With a large 12volt battery on board, (sometimes two, if you fly electrics) and a full compliment of tools, a field box can get really heavy in a hurry! If you want to make it a lot easier to get your field box from the car to the flight line and back, take a look at this SIG FIELDBOX WHEEL KIT. This

kit provides everything you need to make your field box more mobile. You get: (2) sturdy 3-1/2" diameter Wheels, a long pre-formed Aluminum Handle, Plastic Hand Grip, Axle, Axle Mounts, Handle Mount, and complete Hardware. Installation is easy and fast. The light weight aluminum handle is quickly removeable by loosening two wingbolts, to make it easier to fit in your vehicle.



Grooved Hardwood Axle Mount Blocks epoxy permanently onto the bottom of your field box. Wheels and Axle are easily removable.



Hardwood Handle Mount is epoxied permanently to the side of your field box. The Aluminum Handle can be quickly removed for transport.