CALYPSO™ ARF
ALMOST READY-TO-FLY

Manual Supplement

Refer to this Instruction Manual Supplement for initial assembly of your Calypso ARF. After completing the assembly steps in this supplement, continue with the twenty-page RTF/Rx-R/Tx-R Calypso instruction manual booklet.

REQUIRED FOR COMPLETION

In addition to the items listed in the instruction manual for the Rx-R edition, the Calypso ARF also requires the following items:

❍ 18A **ESC** (Electronic Speed Controller) (FLZA6011)

❍ C28-30 1300kV **brushless motor** (FLZA6012)

❍ Spinner, folding **propeller set** (FLZA6006)

❍ (4) Calypso **micro servos** (FLZA6013), or any of the Futaba® micro servos that have the same case as the S3117 such as the following:

> ▶ S3117 (FUTM0417)
> ▶ S3157 (FUTM0657)
> ▶ S3156 (FUTM0656)

❍ (2) 18"–24" [460 mm – 610 mm] servo **wire extensions** for aileron servos (HCAM2200 for Futaba J)

❍ The ailerons may be mixed electronically through the mixing in your transmitter, or "hard-wired" together into the same channel with a **Y-harness** (FUTM4130).

❍ The Calypso may be assembled with just about any kind of **glue** including foam-safe or regular CA, but for gluing in the servos something thicker and flexible is preferred such as Zap Goo or similar (PAAR3200).

❍ A 1.5mm **Allen wrench** is required for tightening the set screws in the folding propeller hub (DTXR0288).

❍ Non-permanent **threadlocker** for all metal-to-metal screws (GPMR6060)
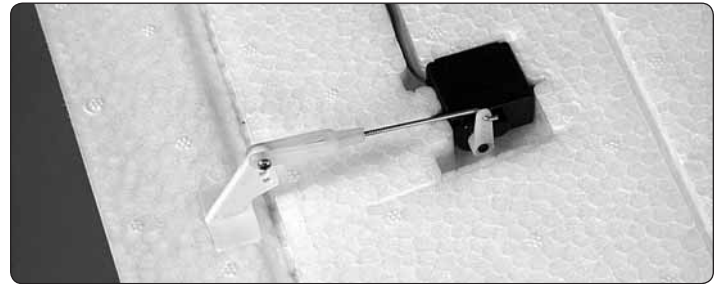
ASSEMBLY

Assemble the Wings

First, let's center the aileron servo arms before gluing the servos into the wing…

❏ 1. Temporarily connect the aileron servos and ESC to your receiver and turn on your transmitter. Making sure the trims on your transmitter are centered, connect the battery to the ESC. If necessary, remove and re-mount the servo arms so they will be perpendicular as shown. Be certain to replace the servo arm screws.

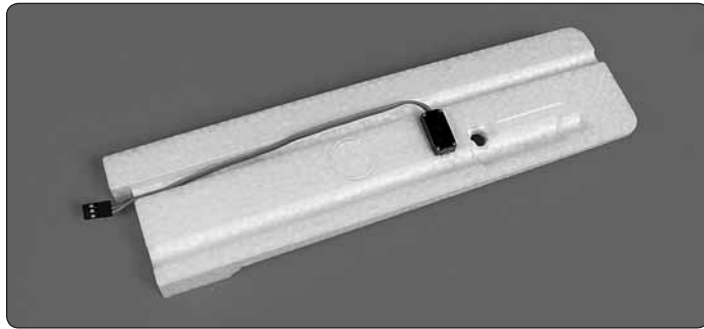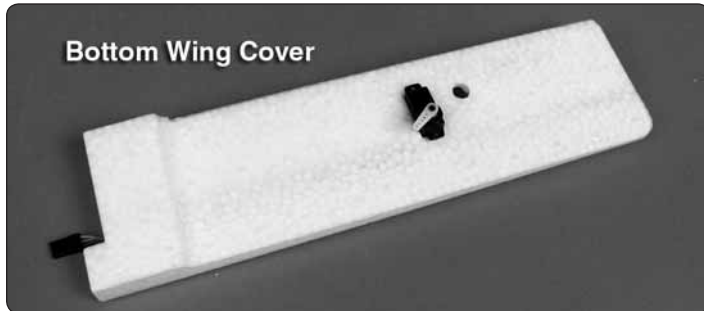*You may work on both wings simultaneously, or do one wing at a time.*

❏ 2. Without using any glue, temporarily fit the servos into the pockets in the wing. Hook up the ailerons with the hardware shown.
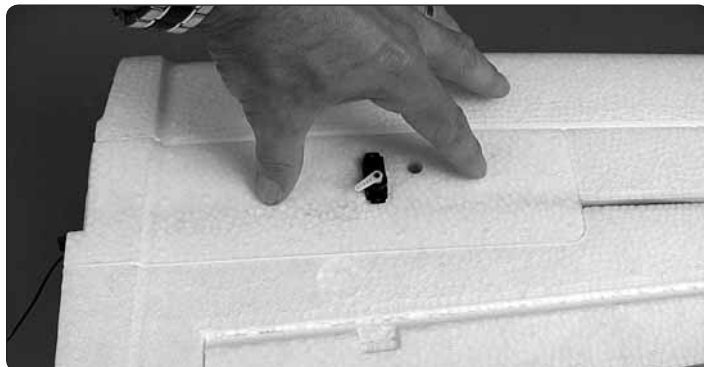

❏ 3. Connect a 18" – 24" [460mm – 610mm] servo extension to the aileron servo wires and secure the connection with tape,

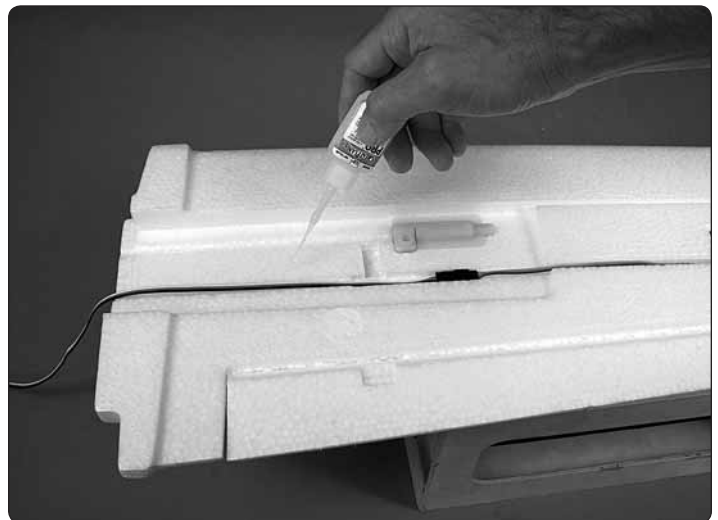heat shrink tubing or a dab of glue. Lay the servo wires down inside the channels.

Bottom Wing Cover

❏ 4. If you plan to hook up the optional flaps, it will be a little easier to cut the flap servo openings in the bottom wing covers and fit the flap servos at this time, so go ahead and do so—but first refer to the illustration at step 13 on page 11 of the Calypso instruction manual for the correct orientation of the flap servos and servo arms. If unsure whether or not you will be using flaps, the servo installation and hookup is easy enough to retrofit later (as illustrated on page 8 of the instruction manual).
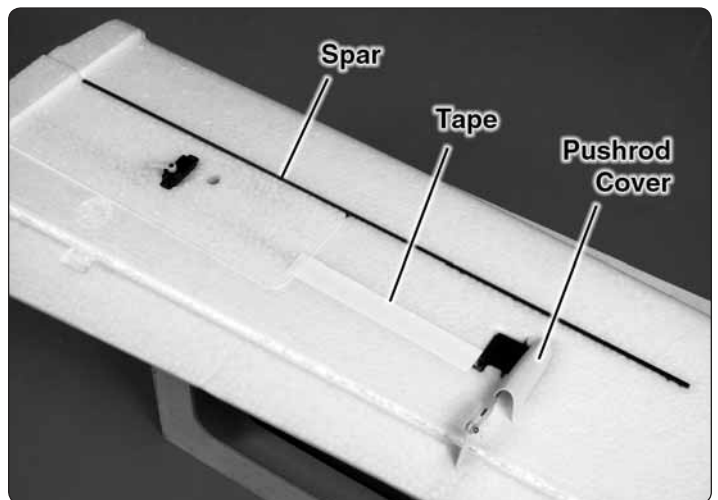

❏ 5. Without using any glue, test-fit the bottom wing cover to the wing. Make sure the cover lays all the way down flat into the cavity and make any adjustments necessary.

❏ 6. Glue the aileron servos (and flap servos if installed) into position—thick or medium CA is suitable, but if ever necessary, the servos will be easier to extract later if something more flexible such as Zap Goo or similar is used.

❏ 7. Glue the bottom wing cover into position—thick or medium CA is okay here, but *use care* not to allow any glue to leak into the channel or into the clamp for the joiner tube. If necessary, use tape or weights to hold the cover down until the glue hardens.
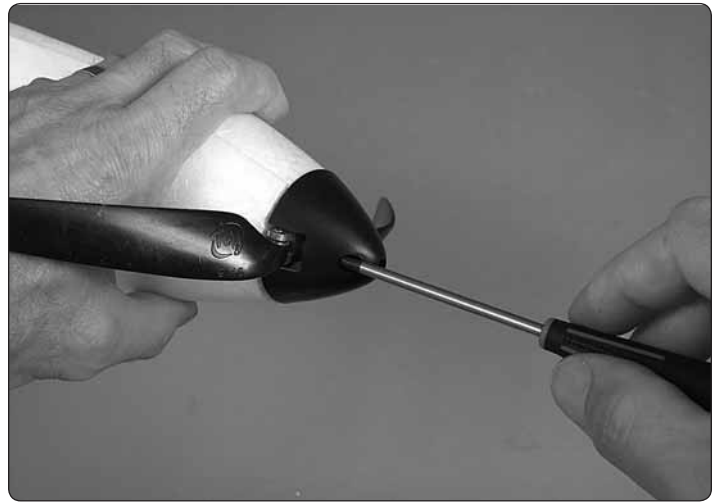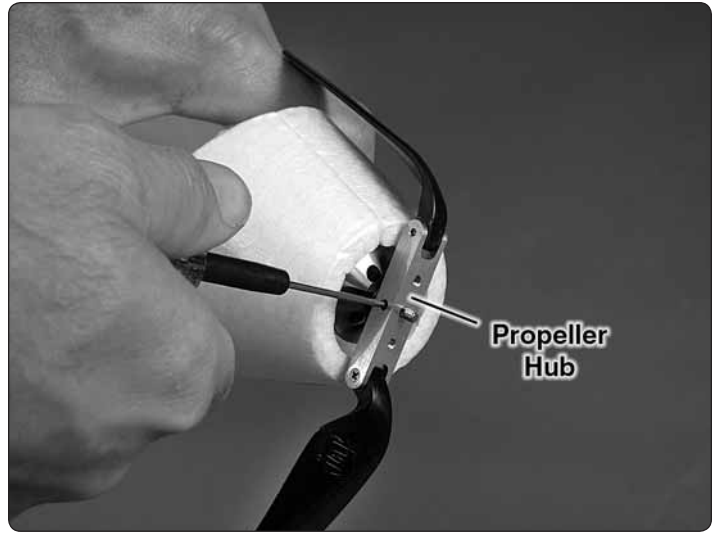

Spar

Tape

Pushrod Cover

❏ 8. Glue the spars and optional aileron pushrod covers into position. Also apply a strip of white or clear tape over the channel for the aileron servo wire.
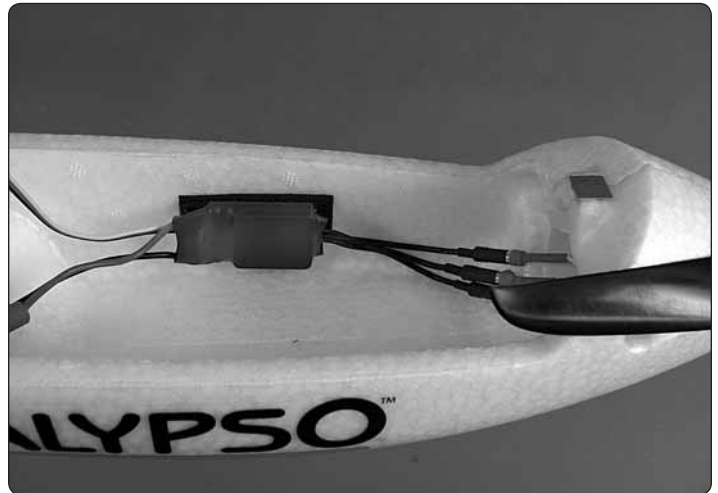
Assemble the Fuselage

Non-permanent threadlocker should be used on all screws that thread into metal such as the motor mount screws, the set screws in the propeller hub and the screws that secure the spinner—a large amount of threadlocker is not required—just enough to "wet" the first few threads.
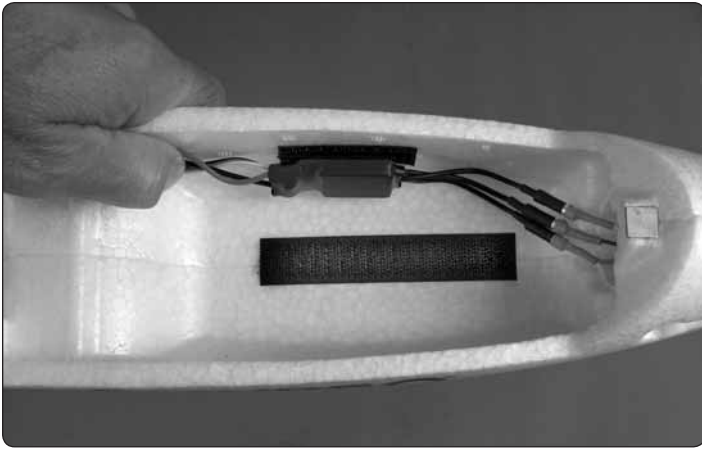
Propeller Hub

❏ 2. Fasten the propeller hub onto the motor shaft using a 1.5mm hex wrench to tighten the set screws. Then, mount the spinner with the 3 x 12mm screws.

❏ 1. Guide the motor wires through the oval hole in the bottom of the motor mount. Then, mount the motor with the two 3 x 5mm screws (don't forget to use threadlocker on the screws).

❏ 3. Connect the ESC to the motor and mount the ESC to the inside of the fuselage with strips of the included adhesive-back hook-and-loop material. **Note:** If, while running up the motor later, the propeller turns backward, simply switch any *two* of the three motor wires with each other to make the motor turn the other direction.
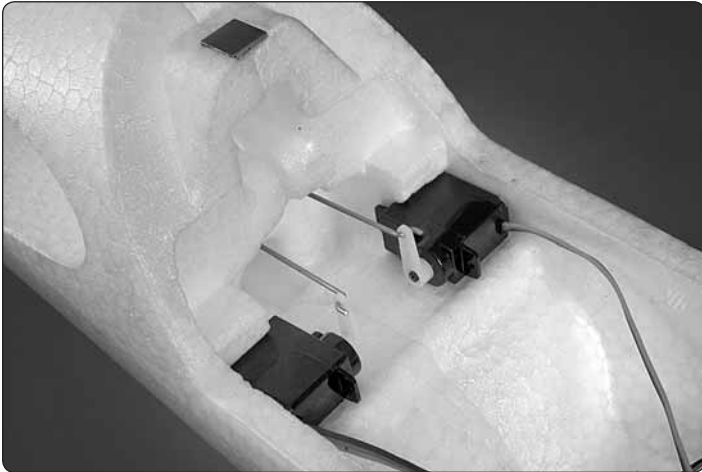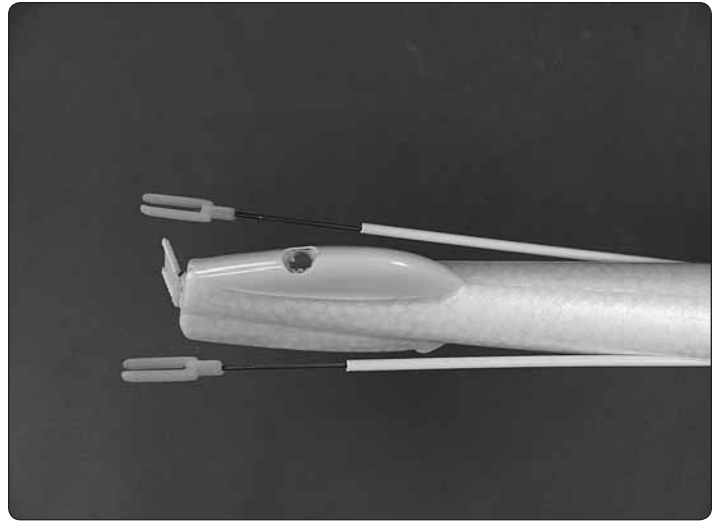
❏ 4. Apply a strip of the rougher, "hook-side" of the hook-and-loop material to the bottom of the radio compartment for the battery. Apply thin or medium CA all the way around the edges of the strip to make certain it is adhered permanently.

❏ 5. Same as was done with the aileron servos, temporarily power up the elevator and rudder servos with your radio system and make sure the arms are perpendicular.

❏ 6. Install the pushorods through the guide tubes in the fuselage. Then, connect the pushrods to the outer holes in the servo arms. Glue the servos into position.

❏ 7. Thread the clevises onto the pushrods until the end of each pushrod protrudes through the clevis just enough to become visible.

Congratulations! Your Calypso ARF is now a Calypso Rx-R and you may continue assembly using the full Calypso instruction manual.

Champaign, Illinois   (217) 398-8970
E-mail: airsupport@hobbico.com

FLZA3006 Mnl