The following is the build order and approximate duration of construction for each part of the plane along with a short description. Construction of Airframe C began on 3/16/2010 and is expected to be completed by 4/30/2010.

1  Main body structural assembly – approx 2 weeks including assembly rigs
   o Assembly rigs created to aid in alignment of wings and tail pieces
   o All body ‘boxes’ assembled and glued
   o Tail section assembled and stringers glued
   o Tail attached to main body
   o All main structural components of the body attached
   o Does not include wing or tail

2  Wing and Tail Structural Assembly – approx 1 week
   o Wing spars attached to wing box / Tail spars attached to tail box
   o Wing ribs and stringers attached to wing spar / Tail spars attached to tail box
   o Balsa paneling connected to wing structure where appropriate
   o Leading and trailing edges glued in place
   o Control surfaces attached and pinned
   o Servo mounts selected and installed (servos not installed yet)

3  Wing fiberglass, monocote, and servo assembly – approx 1 week
   o Final assembly of wing and wing box / tail and tail box
   o All wires run for servos inside wing and tail
   o All miscellaneous sensor wires run (eg. pitot tube)
   o Fiberglass coverage of inner half of wing
   o Monocote covering on outer half of wing, vertical and horizontal tail parts, and all control surfaces
   o Servos installed after monocote and fiberglass

4  Install all electronics – approx 4 days
   o Motor mounted
   o Batteries installed, placed to balance plane, and secured
   o Radio installed
   o ESC installed
   o ESC, battery, motor wired
   o Radio wires run to all control surfaces, UBEC, and ESC

5  Plane final assembly – 9 days
   o Monocote plane body
   o Verify wing box attachment
   o Confirm plane weight and balance
   o Confirm control of control surfaces
   o All access hatches created and secured
   o Program radio / ESC
   o Finish all outstanding build items