

General Tips

1. All fuselage pieces need to be beveled at varying degrees for proper fit.
2. I recommend using UHU Creative glue for joining fuselage pieces for flexibility.
3. Start with 1/2 inch up and down deflection on elevons and adjust to your flying style.
4. If possible, use exponential on radio mixing to soften control throws.
5. Have fun! Any questions please email me at dcobra\_98@yahoo.com or visit discussion thread <http://www.rcgroups.com/forums/showthread.php?t=481872>
6. CG measurement on 100% scale is 52cm along centerline from nose tip, or 56cm along wing leading edge from nose tip.
7. Materials needed /recommended:
  - 2-3 sheets depron/FFF/sturdyboard
  - 1/32 lite ply for control horns
  - Polyurethane glue, foam safe CA, UHU Creative Glue
  - Thin balsa strips (1/32 I think)
  - (2) Servos, I used Hitec HS-55s
  - (1) Brushless motor/ESC/Prop - I used HET Typhoon 15/10, EFlite 20 amp ESC, and APC 8x6 SF prop
  - (1) Receiver - I used Hitec Electron 6. Minimum Rx would be 4 channel and Transmitter needs to be capable of elevon or V-Tail mixing
8. \*\*\*\*Very Important\*\*\*\* During fuselage build, cut only pieces needed for that step...depending on placement of parts, adjustments may need to be made to part sizes on subsequent steps. Keep in mind...any angle variation from my build will result in a different result for you. Keep in mind these plans are BETA only. Also, try to minimize curving of fuselage base piece during fuse construction, but a little curvature won't hurt the flight characteristics.
9. When placing magnets, space them evenly along the edges of the Fuselage Base piece. Use more magnets at the front and rear, and remember to avoid placing magnets where the CF spars are. My advice is to mount the magnets to the fuselage base piece before building the fuselage, then press the fuselage base piece against the wing/base piece to make matching indents at magnet positions.

Fuselage Base Piece (Cut 1)

Inlet Piece (2)

rear edge

top edge

Att Intake top Cut (2)

0 CM 8 CM

Lockheed-Martin F-117A  
Nighthawk

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Rev. 4

cut away corner after motor mount glue stick for better appearance  
Cutout for motor mount stick  
Cut stick to length for motor setup used

Internal spine /motor mount piece Cut (3) and laminate

forced washout strip Cut (2) and mount atop trailing edge of wing (follow blue stiched lines)

forced washout strip Cut (2) and mount atop trailing edge of each elevon (refer to blue stich lines)

Vertical Tail (Cut 2)

Front fuselage side Cut (2)

Nose Piece Cut (2)

Intake Top Piece Cut (2)

Intake side piece (Cut 2)

outer edge

front edge

front edge

Top edge

Inlet to exhaust transition top piece cut (2)

bottom edge

Rear edge

Inlet to exhaust transition bottom piece Cut (2)

Exhaust panel Cut (2)

Rear Edge

Front Edge

Cockpit side piece cut (2)

rear edge

bottom edge

Top Cockpit Piece

Cut (1)

Trim to shape

Cockpit front Cut (1)

Exhaust center keystone cut (1)

for tails (no need to be exact) top approx. 60 deg

cut away corner after motor mount glue stick for better appearance

Rear Wing/ Base (Cut 1)  
Red lines indicate elevon cut lines  
Cut elevons and bevel to 45 deg. angle

CF Rod Rear crossbrace

Blue lines indicate placement of forced washout strips  
Mount strips as follows: under leading edge of wing and atop trailing edge of elevons

Green lines indicate elevon vortex generator strip placement  
Use thin 2mm balsa strip or cut strips from FFF/depron  
Install on top and bottom of both elevons

CF Rod cutout slot

Hand-launch Grip Cut (3) and laminate  
Attach to centerline center on CG point

Exhaust Duct side piece  
Cut (2)

CG

CF Rod Cutout Slot

Forward Wing/Base Piece  
Cut (1) Attach to Rear  
Wing/ Base Piece

CF Rod Cutout Slot

Use .210 CF for all

Lower cockpit side piece  
Cut (2)

Bottom side

Cockpit Horn

This area should be the base of Exhaust Panel

Inlet bottom piece Cut (2)

