

AJ Aircraft 92" Raven Data Sheet

Contents of Kit

- 92" Raven fuselage covered in genuine Ultracote
- Set of Main Wings w/pre-installed hinges and sealed aileron hinge gap
- Set of Horizontal Stabilizers w/pre-installed hinges and sealed elevator hinge gap
- Pre-hinged, removable rudder
- Carbon fiber wing and stabilizer tubes
- Carbon fiber main and tail landing gear
- Color matched fiberglass cowl, wheel pants, landing gear cuffs and canopy
- Heavy duty wheels and steel axles
- Engine mounting templates
- Canister muffler mounts
- Foil main wing bags
- Individual bags of high quality hardware

Recommended Equipment

- (Gas Engine) Desert Aircraft 70cc w/standard or canister mufflers/Falcon 24x9 prop / optical kill switch or IBEC
- (Electric Motor) Hacker Q-80 / Castle 160 ESC & BEC pro / 8-12S LiPos / Falcon 24x10 prop
- (6) x Futaba S-9177 400+in. oz. high torque digital metal gear servos for all surfaces
- (1) x standard size servo for throttle
- 7+ Channel Full Range Receiver
- 4" Falcon Carbon Fiber Spinner
- Aluminum Servo Arms:
 - (4) x 1.75" for ailerons & elevators
 - (1) x 3.5" double arm for pull/pull rudder
- Servo extensions:
 - (2) x 6" for receiver to wing
 - (2) x 6" for ailerons
 - (2) x 12" for throttle & ignition kill or
 - (1) x 12" for ESC to receiver
 - (2) x 48" for elevators

Recommended Tools Needed for Assembly

- Blue Painters Tape
- Denatured Alcohol & Paper Towels
- Blue Loctite
- Metric & Standard Allen Wrenches
- Hobby Knife & Fresh Blades
- 30 Minute Epoxy (or Gorilla Glue)
- Thin C/A
- Electric Drill with Assorted Small Bits
- Small Flat Head & Phillips Screwdrivers
- Sanding Block & Sandpaper
- Needle Nose Pliers
- Adjustable Wrench or Socket Set
- Measuring Tape & Ruler
- Fine-tip Sharpie Marker

Recommended CG Range and Control Throws

- ✓ The center of gravity (CG) for the 92" Raven is located 2 ¼" (+/- ½") measured from the front of the wing tube insert located in the fuselage.

- ✓ **Aileron Control Throws**

- Low Rates – 15 deg. (30% Exp)
- Mid Rates – 35 deg. (40% Exp)
- High Rates – 45 deg. (50% Exp)

- ✓ **Elevator Control Throws**

- Low Rates– 15 deg. (30% Exp)
- Mid Rates– 35 deg. (50% Exp)
- High Rates – 45 deg. (60% Exp)

- ✓ **Rudder Control Throws**

- Low Rates– 15 deg. (30% Exp)
- Mid Rates– 35 deg. (40% Exp)
- High Rates– Max Throw (50% Exp)