

AJ Aircraft 73" Raven Data Sheet

Contents of Kit

- 73" Raven fuselage reinforced with exclusive Carbon-Kevlar technology
- Pre-hinged main wings
- Pre-hinged horizontal stabilizers
- Pre-hinged rudder
- Color matched, fastener free plastic canopy
- Color matched fiberglass cowl & wheel pants
- Carbon fiber wing tube and landing gear
- Lightweight foam wheels and steel axles
- Matching set of side force generators
- Pre-drilled firewall with installed blind nuts
- Individual bags of high quality hardware
- Foil wing bags
- Canister muffler mounts

Recommended Equipment

- (Gas Engine) Desert Aircraft 35cc engine with canister or standard mufflers
- (Electric Motor) AJ5230-20P/205KV 12S w/ 100-120 AMP ESC
- Propeller – 20x9 (gas), 20x10 (electric)
- 5 Channel Full Range Receiver
- Four 250in. oz. high torque digital metal gear servos for all surfaces
- One standard size servo for throttle (Gas setup)
- 12oz – 16oz fuel tank (Gas setup)
- 3.5" Spinner
- Servo extensions:
 - (2) x 6" for ailerons
 - (1) x 24" for elevators
 - (1) x 12" for throttle/esc
- Aluminum Servo Arms:
 - (2) x 1.5" for ailerons
 - (1) x 1.5" for elevators
 - (1) x 2.5" double arm for pull/pull rudder

Recommended Tools Needed for Assembly

- Blue Painters Tape
- Denatured Alcohol & Paper Towels
- Blue Loctite
- Metric & Standard Allen Wrenches
- Hobby Knife & Fresh Blades
- 15 – 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) range for the 73" Raven is located 1" in front of the wing tube (+/- 1/2")
 - ✓ **Aileron Control Throws**
 - Low Rates – 15 deg. (30% Exp)
 - Mid Rates – 30 deg. (40% Exp)
 - High Rates – 45 deg. (50% Exp)
 - ✓ **Elevator Control Throws**
 - Low Rates– 15 deg. (30% Exp)
 - Mid Rates– 30 deg. (40% Exp)
 - High Rates – 45 deg. (50% Exp)
 - ✓ **Rudder Control Throws**
 - Low Rates– 15 deg. (30% Exp)
 - Mid Rates – 30 deg. (40% Exp)
 - High Rates – Max throw (50% Exp)