

# AJ Aircraft 104" ARS 300 Data Sheet

## Contents of Kit

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- 104" ARS 300 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
- 5" Carbon Fiber Spinner
- Embroidered quilted wing and stabilizer bags
- 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
- Basic sheet of vinyl graphics
- Individual bags of high quality hardware

## Recommended Equipment

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- Desert Aircraft 100cc to 120cc gas engine
- (2) KS3086 canister mufflers with 90mm flexible drop header.
- (8) x 400+in. oz. high torque digital metal gear servos for all surfaces
- (1) x standard size servo for throttle
- Aluminum Servo Arms:
  - (6) x 1.75" for ailerons & elevators
  - (2) x 3.5" for pull/pull rudder
- 9+ Channel Full Range Receiver
- Ignition Spark Switch or Optical Kill Switch
- Servo extensions:
  - (4) x 6" for receiver to wing
  - (2) x 6" for inner ailerons
  - (2) x 24" for outer ailerons
  - (2) x 24" for throttle & ignition
  - (2) x 48" for elevators

## Recommended Tools Needed for Assembly

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- 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

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- ✓ The center of gravity (CG) for the 104" ARS 300 is located 1 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. (40% Exp)
- High Rates – 45 deg. (50% Exp)

- ✓ **Rudder Control Throws**

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