NOTES:
* All parts made from 6mm Depron or 1/4" BlueCor foam unless otherwise indicated
* Recommended control deflections (all dimensions measured at root trailing edge):
  Canard: +/- 1" high, +/- 0.5" low, -40% expo
  Aft strake flaps: +/- 1" high, +/- 0.5" low, -40% expo
  Flaperons (roll): +/- 0.75", -30% expo
  Flaperons (pitch): +/- 0.25" (optional--mixed to canard)
  Rudder: +/- 1.0", -25% expo (optional)
* Dual rates recommended on elevator control. Use high rates for launch, landing, and slow flight; use high rates for normal maneuvering
* Flaperon to elevator mixing is optional. It improves pitch response but is not required.

RECOMMENDED POWER SETUP:
* Little Screamer Super Park Jet motor
* APC 7x5 prop
* Castle Creations Phoenix 25 ESC
* 2100 mAh 11.1V lithium-polymer battery

Typical Fuselage Cross Sections

Grumman X-29 Park Jet
Span: 28.1"
Wing area: 217 sq in
Weight: 20 - 23 oz RTF
Wing loading: 15 oz/sq ft

Designed and drawn by Steve Shumate
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0.22" dia x 10.75" carbon tube pivoting inside two 0.38" pieces of 1/4" dia K&S aluminum tubing

Add 1" wide fiberglass strips chordwise to the top and bottom of the canard root for extra strength

Sand all wing edges round
Satin tape may add...

Note neutral position of canard with CG indicated is 2 deg leading edge up (canard root trailing edge is 5/8" above the bottom of the fuselage)
Sand all wing and empennage leading edges round and apply a piece of 3M Satin tape around the leading edge to add smoothness and durability.

1/16" dia music wire joiner

1/16" dia music wire aileron control rods (running inside nylon tubing)

0.08" dia carbon aft strake flap control rod

0.22" dia carbon tube spars

1/32" ply spar joint doublers (bottom only)

1/16" dia music wire aileron control rods

0.22" dia carbon tube pivoting inside two 0.38" pieces of 1/4" dia K&S aluminum tubing

0.22" dia carbon tube spars

1/32" ply spar joint doublers (bottom only)

Dashed green lines indicate foam strip doublers at corners (see parts templates for details)

Cut hatch as required to access receiver

Cut 45 deg bevel in flaperon leading edge and hinge with 3M Satin tape

Aft strake flaps

Littlescreamers Super Park Jet motor shown (zero-zero thrust line)

3/8" sq x 4" hardwood motor mount

CG indicated i root trailing the fuselage

Note neutral position of canard with CG indicated is 2 deg leading edge up (canard root trailing edge is 5/8" above the bottom of the fuselage)