Notes:
* All parts are made from 6mm Depron or BlueCore foam unless otherwise indicated
* If using BlueCore, peel the plastic covering off both sides of all fuselage parts (leave the skin on all wing and empennage parts)
* 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
* Elevon and canard mixing is recommended for pitch control. Set it up so that full aft stick provides 3/4” trailing edge down on the canard and 3/8” trailing edge up on the elevons.
* Rudder control is optional but provides much better control during low-speed high alpha flight.
* Recommended control deflections (all dimensions measured at root trailing edge):
  Canard: +/- 3/4”
  Elevons: +/- 3/4” (ailerons), +/-3/8” (elevators)
  Rudder: +/- 1.5”
* Use -60% exponential rate on all flight controls
* Make first flights at the forward CG location shown, which provides more stability. Pre-set several clicks of up elevator trim before launching at this CG location (prototype required 3/16” trailing edge down canard deflection to trim).
* For best results choose a power system that provides 15-20 oz static thrust and 45-50 mph pitch speed.
* Recommended brushed power system: GWS EPS-350C with C gearing (5.33), 8x6 GWS SF prop, 11.1V 1200 mAh LiPo battery
* Recommended brushless power system: Himax 2015-4100, 4.4 gearing, 9x6 APC SF prop, 11.1V 1200 mAh LiPo battery
* Use a heat gun to gently bend the foam in the fuselage to pre-form it to the shapes shown

JAS 39 Gripen Park Jet
Span: 23.9”
Wing area: 258 sq in
Weight: 16.0 - 18.0 oz RTF
Wing loading: 9.5 oz/sq ft

Designed and drawn by Steve Shumate
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Flaperon servos (with 1/32" music wire pushrods)

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

Cover wing leading edge with a strip of 3M Satin tape for smoothness and durability

Removable canopy mounted with two bamboo skewers forward and two Velcro strips aft

Cut hatch for access to receiver

4.12" 4.62"

3/8" sq x 4.5" hardwood motor mount

GWS EPS-350 motor shown (no right or down thrust)

Receiver

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

Balsa missle rails

3/4" square 1/64" ply bearing supports

.21" dia x 19.5" carbon tube spar