Fwd fuselage top
(Make 1)

Canopy
(Make 8 and laminate)

Canopy sill piece
(Make 4)

Turtledeck top
(Make 2)

Wingtip missle rail (make 2 from 1/4" x 3/8" balsa)

Internal inlet top
(Make 2)

Fwd fuselage top doubler 2
(Make 2)

Fwd fuselage top doubler 1
(Make 2)

Aft fuselage top doubler 2
(Make 2)

Aft fuselage top doubler 1
(Make 2)

Canopy top template to aid carving

Inlet diverter
top piece
(Make 2 from
3mm Depron)

Inlet diverter
side piece
(Make 2 from
3mm Depron)

Nosecone top template
to aid shaping

Nosecone
(Make 10 and laminate)

Dashed green lines indicate doublers

F1

F2

F3

F4

Fwd fuselage side
(Make 2)

Stabilators
(Make 2)

Bias angle (vertical for extra strength)

Cut slot for .22" carbon
tube pivots

Place 1" wide strip of fiberglass
chordwise at root (top and bottom)

Fwd fuselage bottom doubler 1
(Make 2)

Fwd fuselage bottom doubler 2
(Make 2)

F1

F2

F3

F4

To make the canard strong enough, either:
1) Make the entire canard from 3/16" sheet balsa
2) Make from foam but edge with hard balsa as shown
3) Make from foam and fiberglass the top and bottom

Balsa edge (all)

Canard
(Make 2)

Red dashed lines indicate strake design for
non-canard Su-30 variants

Wing fillet lamination 1
(Make 2)

Wing fillet lamination 3
(Make 2)

Wing fillet lamination 2
(Make 2)

Canard braces (6 deg dihedral)
(Make 4 from 1/32" ply)

Wing
(Make 1)

Insert from 1.11/16"
to 2" from wing root
for extra strength (optional)

.22" carbon tube spar

Cut slots to fit tabs in
nacelle sides (typical)

Splice wing here to fit
on one sheet of Depron

Red dashed lines indicate strake design for
non-canard Su-30 variants

Insert 1.50" dia
spar inside slot
(Make 4 .40")

Forward fuselage bottom
(Make 1)

Red dashed lines indicate strake design for
non-canard Su-30 variants

Aft fuselage sides - bottom
(Make 2)

Trim as req'd
for flat on
joint

Outboard nacelle side
(Make 2)

.75" square x 1/16" ply bearing supports

Trim as shown for twin motor installation

Dashed red line shows tip
for Su-30 variants

Insert 1.50" dia
spar inside slot
(Make 4 .40")

Rudder control horns
(make 2 from 1/32" plywood)

Aft fuselage sides - top
(Make 2 and 2 alternate)

Outboard

Inboard

Nacelle tops
(Make 2)

Inboard nacelle side
(Make 2)

.75" square x 1/16" ply bearing supports

Glue one doubler to
control horn as shown

Stabilator control horn
(Make 2 from 1/16" ply)

1/2" dia

Stabilator control horn
doublers/end stops
(Make 6 from 1/16" ply)

Trim as req'd
for flat on
joint

Nacelle bottom
(Make 2)

Vertical tail
(Make 2)

Epoxy to motor
stick here

Epoxy to motor
stick here

Note: If using a motor other than the LSPJ,
modify the height of the side plates to ensure
the centerline of the motor is aligned with the
pivot bolt (to minimize strain on the servo)

Side plates for thrust
vectoring motor mount
(Make 2 each from 1/8" ply)

Dashed red line shows tip
for Su-30 variants

Insert from 1.11/16"
to 2" from wing root
for extra strength (optional)

Nacelle top doubler 1
(Make 4)

3.36"

0.25"

1.50"

1/8" O.D. brass tube bearing with
3-48 bolt pivot (secure with nut)

Trim and as required
to obtain 1/4" deflection

Main motor mount stick
(3/8" sq hardwood)

Movable portion of
motor mount stick
(3/8" sq hardwood)

Nacelle top doubler 2
(Make 4)

Fuselage side rails
(Make 4)

Nacelle bottom doubler 1 - Outboard
(Make 2)

Nacelle bottom doubler 1 - Inboard
(Make 2)

Nacelle bottom doubler 2 - Outboard
(Make 2)

Nacelle bottom doubler 2 - Inboard
(Make 2)

Su-37 Super Flanker Park Jet

Designed by Steve Shumate

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All parts made from 6mm Depron or BlueCore
foam unless otherwise specified