Canopy
(Make 10 and laminate)

Turtledeck support
(Make 2)

29 deg bevel (.52")

Install turtledeck support here

F5

39 deg bevel (.72")

Forward fuselage side
upper half
(Make 2)

F2

F3

F4

33 deg bevel (.65")

25 deg bevel (.57")

F2

F3

Forward fuselage side
lower half
(Make 2)

34 deg bevel (.15")

Taper bevel as shown (keep full height)

Heat and twist this section
until the aft end is vertical

Taper bevel as shown (keep full height)

34 deg bevel (.15")

34 deg bevel (.15")

Forward fuselage
bottom
(Make 1)

Turtledeck top
(Make 2)
(this piece is slightly over size in
width to allow trimming to shape)

Forward fuselage top
(Make 1)

34 deg bevel (.08")

Inlet diverter
(Make 2 from 3mm)

34 deg bevel (.08")

Inboard inlet side
(Make 2 from 3mm)

34 deg bevel (.08")

Temporary bulkhead
to help position fuselage
sides on wing during
assembly (Make 4)

Optional launch grip fairings
Make 2 and sand to shape

Tab fits into
slot in wing

Cutout to clear
rudder servo

Tab fits into
slot in wing

Stabilator servo

Motor stick cutout

Thrust vector servo
(HS-85MG shown)

Fuselage centerline support
and motor mount
(Make 2 and laminate)

Cut channel to
clear stab pivot tube

Tail booms
(Make 10 and laminate
5 each to make two booms)

Fuselage top spine
(Make 1)

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

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

1.87 "

0.30 "

4.80 "

Aluminum tube bearing with
6-32 bolt pivot (secure with nut)

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

F1

F2

F3

F4

T1

T1

T2

T3

T4

T5

Cut bulkhead in half
along this line before
assembly (will re-attach
during assembly)

Cut bulkhead in half
along this line before
assembly (will re-attach
during assembly)

Reinforce this area with a strip of
fiberglass cloth and resin (top and bottom)

0.90 "

Cut slot to fit
carbon tube spar

Stabilator
(Make 2)

Nosecone
(Make 8)

Nose cone top
template (use to help
carve to shape)

Install aft fuselage sides here

T1

T2

T3

T4

T5

4

2

Scale in inches

0

2

4

Wing
(Make 1)

Cut slot for fuselage
center spine

Cut slot for fuselage
center spine

Stabilator pivot tubes
(glue in place with epoxy)

Stabilator pivot tubes
(glue in place with epoxy)

Vertical tail braces

28 deg bevel (.12")

Vertical tail slot (cut at 28 deg angle)

Install aft fuselage sides here

Vertical tail base fairing (opt)
(Make 2 and sand to fit)

63 deg bevel (.26")

63 deg bevel (.26")

76 deg bevel (.97")

Bevel and trim as required to fit
flush with fuselage sides

Aft fuselage top piece
(Make 1 from 3mm Depron)

Bevel and trim as required to fit
flush with fuselage sides

76 deg bevel (.97")

63 deg bevel (.26")

63 deg bevel (.26")

Trim pieces for outboard of vertical tail
(Make 2 from 3mm Depron)

34 deg bevel (.15")

Bevel edges of
nozzles as shown

Aft fuselage bottom
(Make 1)

Bevel edges of
nozzles as shown

34 deg bevel (.15")

Aft fuselage side
(Make 2)

34 deg bevel (.15")

Vertical tail
(Make 2)

28 deg bevel (.12")

28 deg bevel (.12")

28 deg bevel (.12")

Vertical tail brace (Make 2)

Cut angled slot after gluing this piece to the wing

Rudder and flaperon control horns
(make 4 from 1/32" plywood)

Jig for setting vertical
tail dihedral
(Make 2)

F/A-22 Raptor Park Jet

Designed by Steve Shumate

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