13mm radius servo horns
7.5mm radius

2/3A NimH
1100 mAh
3.0 oz
6A max

109g shell
23g nosecone
11g towhook
10g bulkheads/nuts
8g bolts
14g pushrods
56g boom
3g V-mount
238g TOTAL fuselage

F3B Fuselage
M.Drela 09 Sep 02

2/3A NimH
1100 mAh
3.0 oz
6A max

109g shell
23g nosecone
11g towhook
10g bulkheads/nuts
8g bolts
14g pushrods
56g boom
3g V-mount
238g TOTAL fuselage

The diagram shows the components of the F3B Fuselage with their respective weights:

- 109g shell
- 23g nosecone
- 11g towhook
- 10g bulkheads/nuts
- 8g bolts
- 14g pushrods
- 56g boom
- 3g V-mount

The TOTAL fuselage weight is 238g.
13mm radius
servo horns
2.00" (50.8mm) max OD
1.75"
wing: +1.5 deg. relative to fuselage axis
fiberglass board
Multiplex 6-pin connector
10-32 allen-head bolt
from 14 lb tail side load (full rudder at 50 m/s)
3 layers 1.5 oz glass wrap
end grain balsa core, hollowed locally
1/2" ply bulkhead
3/4" rod ballast
20 oz (lead)
16 oz (brass)
1/2" ply bulkhead
wing platform
pushrod exit
nosecone
2.00" (50.8mm) max OD
- 2 +3

-2 +3

+50

Multiplex 6-pin connector

boom: 7/8" ID x 0.033" wall, tapered to 11/16" ID = 0.019" wall

grain balsa core, hollowed locally for wires

3 layers
1.5 oz glass wrap
balsa fill above and below beam

fiberglass board

0.021" x 3/16" CF

end grain balsa core, hollowed locally for wires

balsa fill above and below beam
1.75" pole

10-32 Nylon bolt
230 lb shear strength
150 lb tensile strength

10-32 allen-head bolt

wing: +1.5 deg. relative to fuselage axis

+50

1/2" ply bulkhead

endgrain balsa core, hollowed locally for wires

3 layers 1.5 oz glass wrap
balsa fill above and below beam

fiberglass board

3/4" rod ballast
20 oz (lead)
16 oz (brass)

boom: 7/8" ID
11/16" ID

3/4" ID x 0.033" wall, tapered to 11/16" ID = 0.019" wall

175 lb shear on each bolt from 14 lb tail sideload (full rudder at 50 m/s)

1/2" plywood bulkhead

10-32 allen-head bolt

endgrain balsa core, hollowed locally for wires

3 layers 1.5 oz glass wrap
balsa fill above and below beam

fiberglass board

0.021" x 3/16" CF

Multiplex 6-pin connector

balsa fill above and below beam

fiberglass board

10-32 nylon bolt
230 lb shear strength
150 lb tensile strength