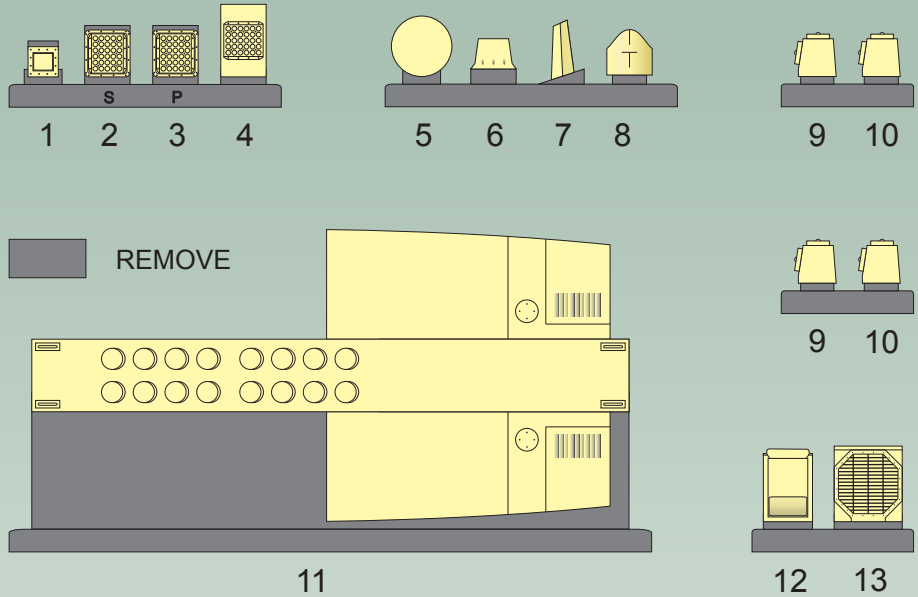




Master Pattern by  
 Craig Sargent

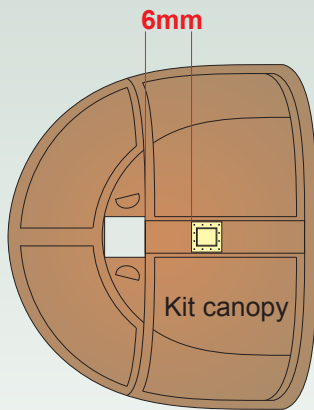
### PARTS LIST

- 1 GPS ANTENNA
- 2 STARBOARD ALE-39 CHAFF/FLARE DISPENSER
- 3 PORTALE-39 CHAFF/FLARE DISPENSER
- 4 LOWER ALE-39 CHAFF/FLARE DISPENSER
- 5 SATCOM ANTENNA TOP
- 6 SATCOM ANTENNA BASE
- 7 SHARKFIN COMMS ANTENNA
- 8 MAD BOOM BLANK
- 9 FWD ALR-76 WINGTIP ECM ANTENNA (x 2)
- 10 AFT ALR-76 WINGTIP ECM ANTENNA (x 2)
- 11 SONOBUOY PANEL
- 12 APU EXHAUST PORT (CLOSED)
- 13 FUSELAGE HEAT EXCHANGER VENT



### GPS ANTENNA

The GPS antenna (part 1) is designed to attach directly to the kit canopy. Measure 6mm back from the rear edge of the kit's refueling probe door. Part 1 fits between the canopy framing panel lines at that point.



### FUSELAGE CHAFF/FLARE DISPENSERS

The chaff/flare dispensers (parts 2 and 3) are designed to attach directly to the sides of the fuselage. Please note that these parts are handed (S for starboard and P for port marked on pour stub). They have an arrow on the back indicating up. Measure 0.5mm forward from the second vertical panel line behind the gear bay doors for the rear position and 1mm down from the panel line running back from the upper line of the gear bay for the upper position. Use photos below for positioning reference.

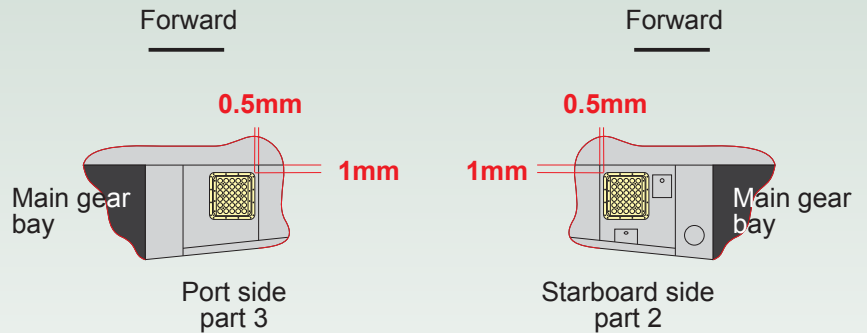


Photo US Navy



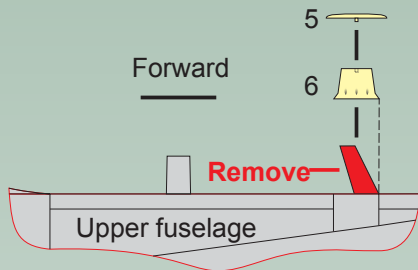
Photo Jose Ramos



Photo Jose Ramos

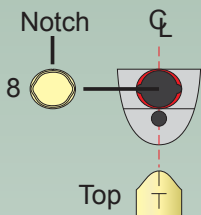
### SATCOM ANTENNA

Check references to see if this is applicable to the jet you are building. The SATCOM antenna dish (part 5) has a pin that fits into a hole in the base (part 6). Remove the sharkfin antenna on top of the fuselage and attach part 6 in the same position.



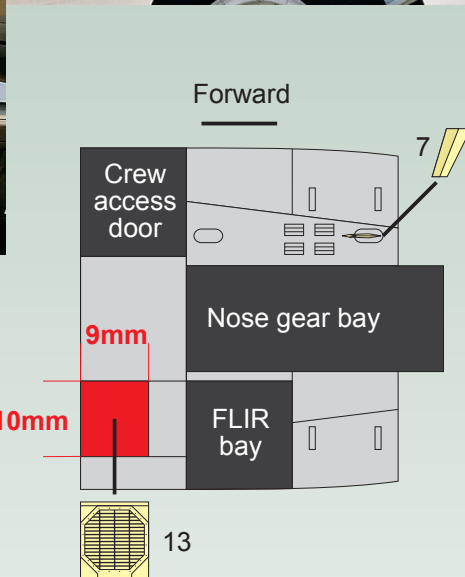
### MAD BOOM BLANK

Discard the kit MAD boom. The kit opening is the wrong shape. Enlarge the opening and fit part 8 so that the T is on top, and the notch on top is aligned to the fuselage join. Fill and sand around the part to fair it into the tail.



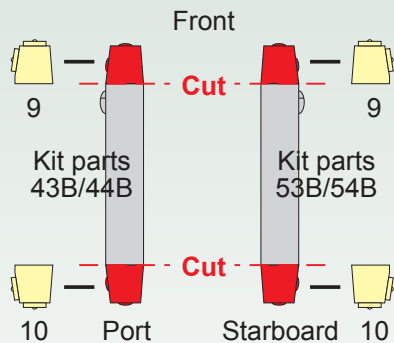
### SHARKFIN UHF ANTENNA

Check references to see if this is applicable to the jet you are building. The antenna (part 7) mounts in the center of the oval panel under the nose, next to the nose gear bay as shown.



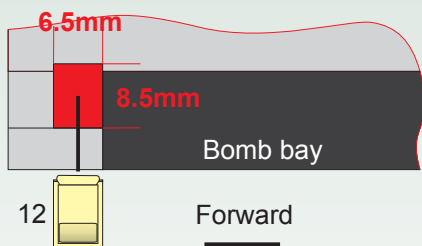
### WINGTIP ECM ANTENNAE

Assemble the upper and lower wingtip pods (kit parts 43B/44B and 53B/54B). Glue pods to wingtips, then remove the sections in red at the panel lines as indicated below. Glue part 9 to the front and part 10 to the rear as shown.



### APU EXHAUST

The kit APU exhaust is inaccurate. Cut an opening in front of the bomb bay on the port side 6.5mm by 8.5mm so that the top is 1mm above the top of the bomb bay. A small section of the fwd bomb bay bulkhead will need removing. Glue part 12 in the hole - it will help to do this before assembling the fuselage.



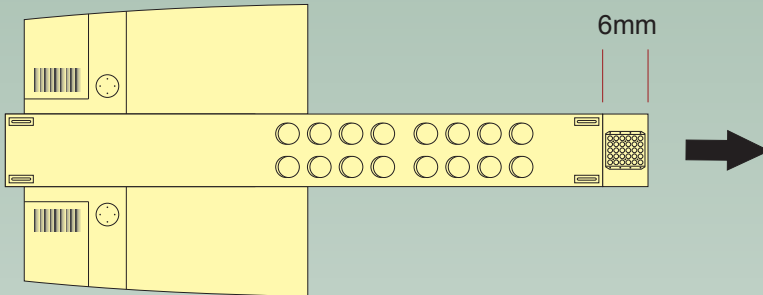
### FUSELAGE HEAT EXCHANGE VENT

The fuselage heat exchange vent is missing from the kit. Cut a hole 9mm by 10mm on the port side behind the nose gear bay as shown above. Fit 13 in that hole - careful to note direction.



## LOWER FUSELAGE CHAFF/FLARE DISPENSER AND SONOBUOY PANEL

The sonobuoy panel is a direct replacement for the part in the kit. Carefully remove the flash from the 4 tie down points. Once the sonobuoy panel is test fitted in position, measure and mark a point 6mm forward of the front end. Carefully remove a section of the kit's lower fuselage until the lower chaff/flare dispenser fits in to place.

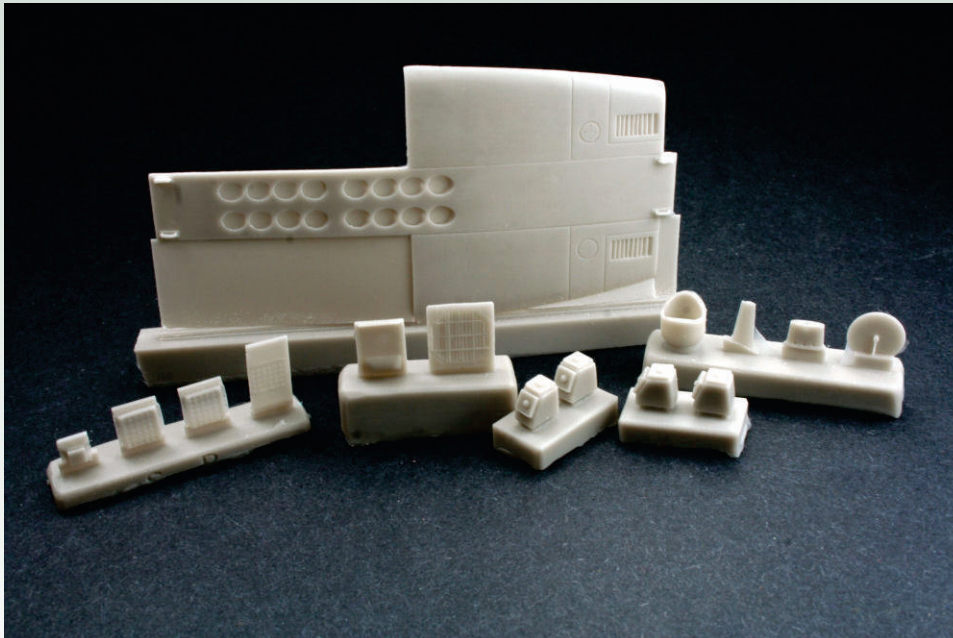


## OTHER MODIFICATIONS NEEDED

Do not use any of the antenna shown fitted underwing or on the main gear doors (discard kit parts 103G).

There are two blade like protrusions, one under each wing between the engine and stores pylons. These are tie down points, not antennae and need to have a hole drilled through them and then have the corners rounded off.

For a very good reference article on the other changes necessary, visit Hyperscale for an in-depth article by Bill Suggs at [http://www.clubhyper.com/reference/updatesyourvikingsbs\\_1.htm](http://www.clubhyper.com/reference/updatesyourvikingsbs_1.htm)



Thanks to the following for their invaluable assistance:

- :: Jose 'Fuji' Ramos
- :: Jim Rotramel
- :: Ken Middleton

## COMING SOON FROM TWO MIKES RESIN

Aerial Refueling Store (ARS) with optional parts included to allow you to add a buddy pod to your S-3 model.

