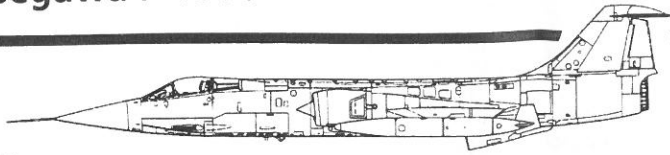


F-104A/C Update Set

for the Hasegawa F-104C

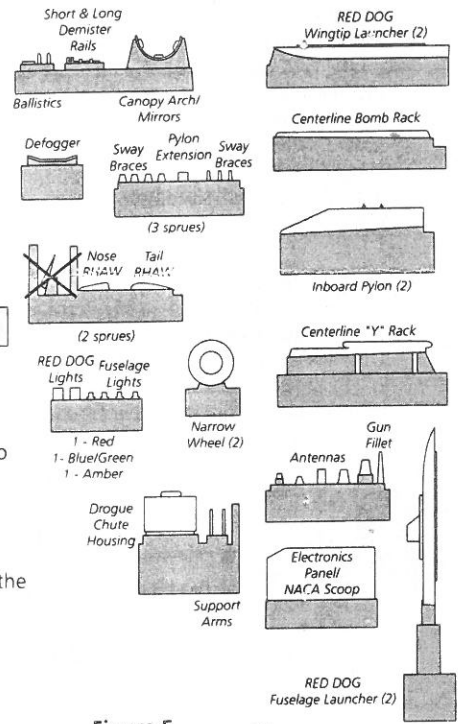


CEC48265



General Notes:

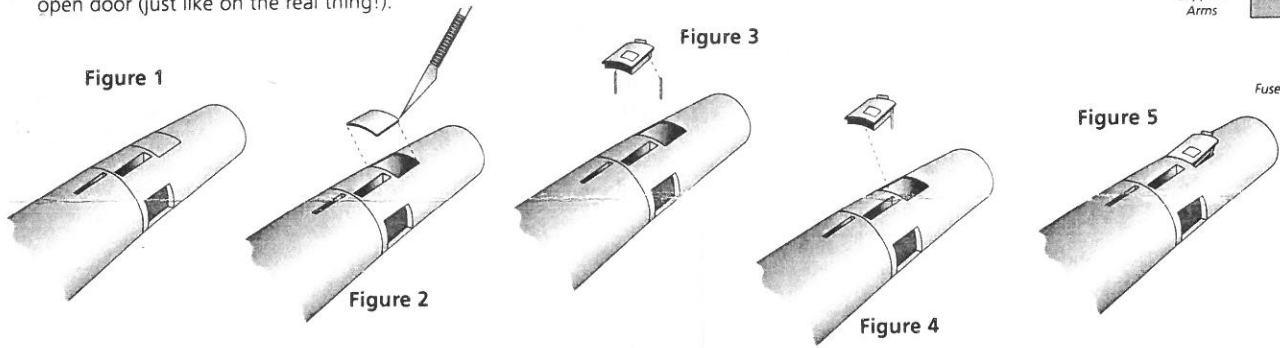
- Your **Cutting Edge Modelworks** F-104A/C Update Set fits the Hasegawa F-104C kit, but may be adapted to the Monogram F-104C kit with some work. These instructions are for the Hasegawa kit; you're on your own to fit it into the Monogram kit.
- This set contains all necessary parts to convert the Hasegawa F-104C to the F-104A. A super detailed cockpit for the F-104A is available from Cutting Edge in set CEC48253, and a super detailed cockpit for the F-104C is available in set CEC48252.
- BE CAREFUL if you're using the Hasegawa kit; its styrene is extremely brittle and easily cracks when it's being cut or sliced.
- CERTAIN PARTS ARE DELICATE! Please be careful with the slender parts.
- Dry fit all parts first. Measure twice and cut once!
- Use super glue (cyanoacrylate).



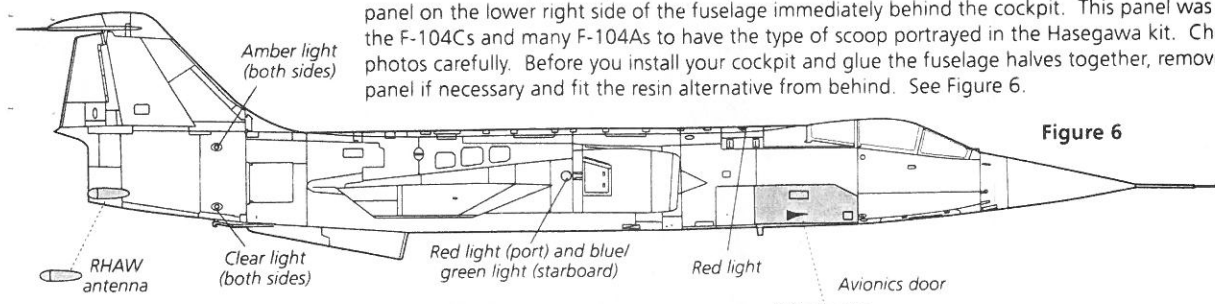
Remove shaded areas

Construction Notes:

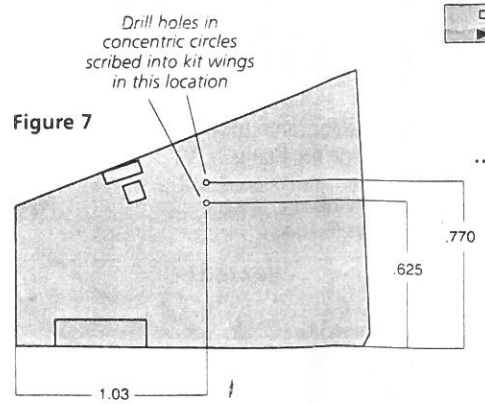
- Your model will generally be assembled according to the Hasegawa instructions. However, if you wish to show the drogue chute door in the open (dropped) position, you MUST accomplish the steps shown in Figures 1-5 BEFORE Hasegawa step 5!
- DROGUE CHUTE DOOR:** Tape the kit fuselage halves together, then cut away the kit's closed drogue chute door per Figures 1 & 2. Attach the two vertical braces to the door, then glue in place after the fuselage is completed. See Figures 3-5. You will have to bend the kit arrestor hook down a bit to clear the open door (just like on the real thing!).



- All F-104As and apparently some F-104Cs were originally built with a NACA type scoop in the large avionics panel on the lower right side of the fuselage immediately behind the cockpit. This panel was later changed on the F-104Cs and many F-104As to have the type of scoop portrayed in the Hasegawa kit. Check your reference photos carefully. Before you install your cockpit and glue the fuselage halves together, remove the kit avionics panel if necessary and fit the resin alternative from behind. See Figure 6.



- The inboard wing pylon was similar for all F-104s. Note the F-104A could carry ONLY fuel tanks on these pylons; the F-104C could carry certain weapons on the same pylons. If you wish to fit these pylons, refer to Figure 7 for the exact locations to drill the mounting holes in the lower wing parts before gluing the wings together. Also note that outboard pylons were not added until the F-104S variant was produced (see Cutting Edge set CEC48267 for a full F-104S conversion).



... proudly presented by:



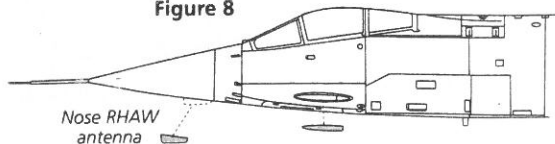
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F-104A/C Update Set, continued

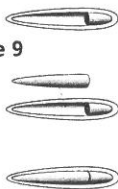
Figure 8



Nose RHAW antenna

- 20mm cannons were not mounted on the F-104A, although the jet had provisions for doing so. The gun port was also faired over on some F-104Cs (as always, CHECK YOUR REFERENCES!). If necessary, glue the resin gun port fillet in place per Figures 8 & 9.

Figure 9



- Add the canopy demisting system parts per Figures 10 & 11. Although cast in our UNIQUE strong gray resin, which is MUCH stronger than the normal tan stuff available elsewhere, be careful with these parts as they're delicate!
- Add the canopy removal pyrotechnics and canopy knife per Figures 12 & 13.

Figure 10

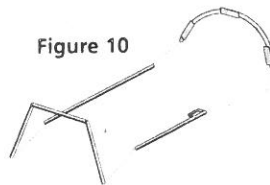
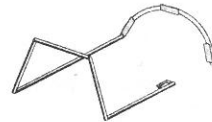
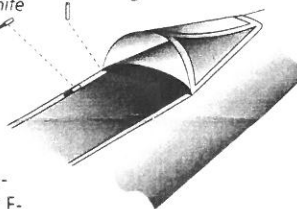


Figure 11



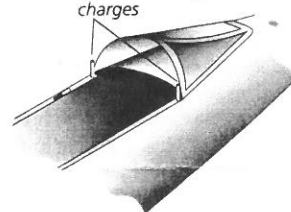
Canopy breaker knife

Figure 12



Canopy ballistic charges

Figure 13



STORES:

- As noted above, a single pylon could be mounted under each wing. Be very careful: on the F-104A and F-104C, this pylon was mounted perpendicular to the WING, as shown in Figure 14. The angle was different on the later F-104 variants! The pylon sometimes had a small protrusion at its lower rear. Add this piece if necessary per Figures 15 & 16. Do NOT use the sway braces if you will mount fuel tanks (F-104A and F-104C), but DO use sway braces if you're mounting any ordnance (F-104C only). Again, note that ONLY fuel tanks could be carried on this pylon on the F-104A, while the F-104C could carry fuel tanks or bombs in this location.

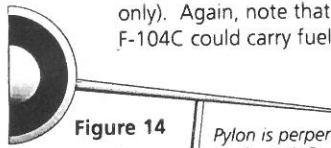
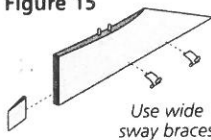


Figure 14

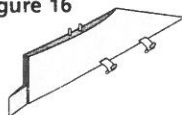
Pylon is perpendicular to the WING, not the ground!

Figure 15



Use wide sway braces

Figure 16



- All F-104s used the RED DOG launch rails (don't ask us where the name came from; but it's in all the USAF documents!) for early AIM-9 Sidewinders, usually the AIM-9B version. On the F-104A/C, RED DOGS could be mounted on the wingtips and/or on the belly "Y" rack. We have designed the RED DOGS in two pieces: the gray resin rail and the red or blue/green rear light. Attach the red light portion to any rail (wingtip and/or belly) that goes on the port side of the jet and attach the blue/green light to rail(s) on the starboard side.

- To mount the wingtip rails, cut the outermost .075" off the kit wingtip (top wing part) and glue the RED DOGS in place after the wings are assembled. See Figures 17 & 18.

- If you wish to mount the belly "Y" missile rack, attach two fuselage RED DOGS to the resin centerline "Y" rack per Figures 19, 20, & 21. According to a source who was in the unit, the 479th TFW only used this particular equipment a few times on their F-104Cs as the unit commander strongly disliked its performance.

- The standard centerline rack was unchanged through the entire F-104 production. It could be mounted to the F-104A and F-104C, and was capable of carrying numerous types of weapons. Interestingly, in spite of the small ground clearance under this rack, the F-104C could carry a nuclear weapon on this rack; the Canadians, for example, mounted the much larger BL755 in the same position! Some NATO air forces carried the huge Orpheus recce pod in this location on their F-104Gs or CF-104s.

ECM

- Many F-104Cs in Vietnam carried RHAW antennas on the lower rear fuselage, and some had an additional RHAW antenna under the nose. If appropriate, mount the rear RHAW antennas per Figure 6, and the nose RHAW antenna per Figure 7.

OTHER

- Both the F-104A and F-104C used the narrow wheel and tire provided in this set. The Hasegawa kit provides the wider wheels used on the Starfighter bombers (F-104G/J/S and CF-104).

- As noted above, attach the triangular red (port) or blue/green (starboard) navigation lights to the rear of the RED DOG Sidewinder launchers. Drill out the seven round formation lights in the fuselage and mount the lights from the inside as shown in Figure 6. The clear round lights come from the Hasegawa kit, even though the Hasegawa instructions incorrectly state these lights were not mounted on F-104Cs. We've even provided BlackMagic™ masks to cover these lights when you paint your model!

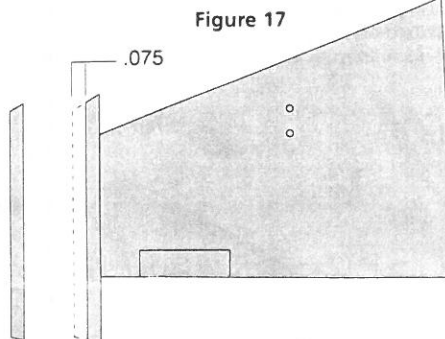


Figure 17

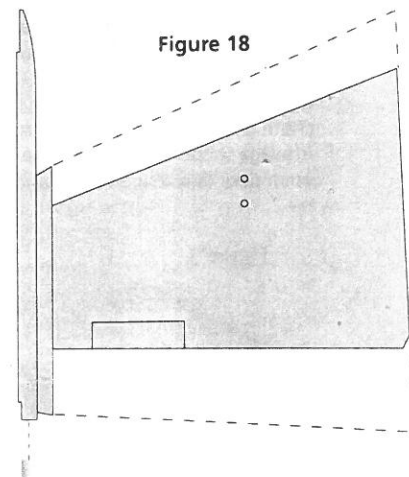


Figure 18



Figure 19

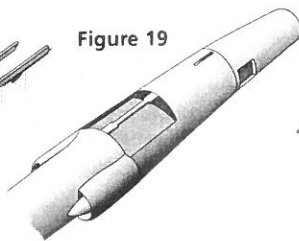


Figure 20

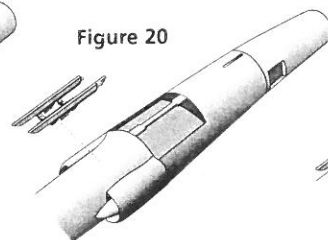


Figure 21

Figure 22



Use narrow sway braces

Figure 23

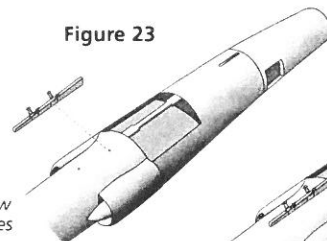


Figure 24

