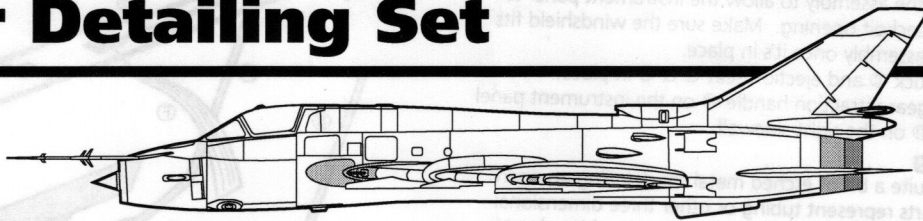


# Su-22M Cockpit Super Detailing Set

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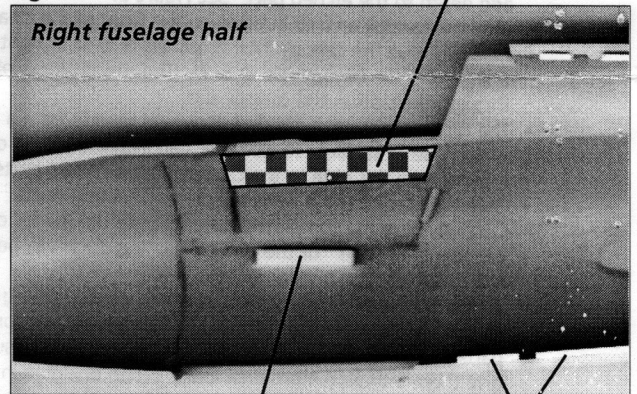


## General Notes:

- This cockpit set is applicable to the KP (ex-OEZ) Su-22M-4 kit. These **Cutting Edge Modelworks** parts completely replace the cockpit parts in the KP kit.
- I didn't really plan to write a book when I sat down to make this instruction sheet, although that's about what it's turned into! In general, parts fit on this KP kit is quite poor. We recommend you trim off all locating pins on the fuselage and glue tabs of sheet styrene along its length to help correctly align the fuselage halves. Frankly, preparing and fitting most of the kit parts is a pain in the butt and we recommend you pay careful attention to our suggested assembly sequence—and dry fit parts frequently!
- CERTAIN PARTS ARE DELICATE! Please be careful with the slender parts.
- Dry fit all parts first. Measure twice and cut once!
- Dry fit all parts first. Measure twice and cut once!
- Dry fit all parts first. Measure twice and cut once! (got that?)
- Use super glue (cyanoacrylate) for resin parts. We recommend **Cutting Edge Modelworks** Canopy Glue (CET06) for attaching tiny etched metal parts and CET01 Razor Saw (.0035" thick!) for making fine cuts in styrene or resin.

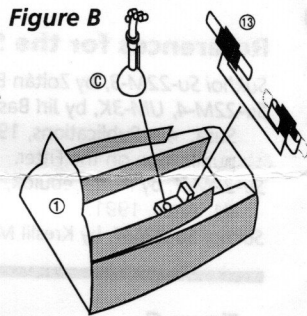
Figure A

Reduce sidewall thickness in this area



## Construction Notes:

- The general sequence of assembly is:
  - Kit part preparation (remove styrene as indicated)
  - Fit resin cockpit tub assembly
  - Fit kit nose gear bay
  - Fit kit air intake assembly & afterburner assembly
  - Assemble fuselage halves
  - Fit dashboard/instrument panel assembly
  - Canopy detailing
  - Assemble remainder of kit



## Resin Parts list:

- ① Main cockpit tub
- ② Instrument panel
- ③ Control stick
- ④ HUD & cockpit dashboard
- ⑤ Canopy elevation mechanism base
- ⑥ Nuclear flash curtain (folded)
- ⑦ K-36 ejection seat base
- ⑧ K-36D (Type I) head box
- ⑨ K-36DM (Type II) head box

## Etched Parts list:

- ① Canopy arch
- ② Windscreen arch
- ③ ODD RODS IFF antenna base
- ④ ODD RODS IFF antenna
- ⑤ Left HUD support
- ⑥ Right HUD support
- ⑦ Right placards
- ⑧ Right canopy heating duct
- ⑨ Right canopy interior/hooks
- ⑩ Right canopy sill
- ⑪ Right cockpit sill
- ⑫ Canopy piping assembly
- ⑬ Rudder pedals
- ⑭ Left cockpit sill
- ⑮ Left canopy will
- ⑯ Left canopy interior/hooks
- ⑰ Left canopy heating duct
- ⑱ ODD RODS IFF antenna
- ⑲ ODD RODS IFF antenna base
- ⑳ Landing gear retraction lever
- ㉑ Canopy latch lever
- ㉒ Left placards
- ㉓ Angle of attack (AOA) vanes (3 each)
- ㉔ Left K-36 leg restraint
- ㉕ Right K-36 leg restraint
- un K-36 pull handle

## Kit Part Preparation

- The kit fuselage sidewalls must be thinned for this cockpit tub to properly fit. Use a chisel-type hobby blade to scrape a trapezoidal shaped area under the cockpit coaming as shown in *Figure A*. BE CAREFUL when thinning the sidewalls—DO NOT punch all the way through the plastic! Frequently test fit the tub!
- You may find it helpful to add a small piece of square styrene stock as shown in the photo to support the bottom of the tub.
- The kit intake sonic bullet fits very badly, so test fit!

## Cockpit Tub Assembly

- Bend the rudder pedal foot straps as shown and glue the rudder pedals ⑬ in place in the cockpit tub (*Figure B*).
- DO NOT glue the control stick or ejection seat in place yet!
- Glue the tub assembly ① in place in the fuselage top.

## Nose Gear Bay

- The nose wheel bay is a poorly designed part with no locator pins. Nearly all of the vertical extension portion must be removed per *Figure 2*. This will require careful trial fitting AFTER the cockpit tub is in place, and be sure to reduce the length of the rear nose gear support arm (kit part 74). See *Figure C*.
- Fit the kit air intake assembly and afterburner assembly (we recommend replacing the kit parts with the **Cutting Edge Modelworks** CEC48080 Su-22 Afterburner Can & Nozzle). The kit intake baseplate (part 28) butts against the resin cockpit tub.
- Assemble the fuselage halves.

## Instrument Panel & Cockpit Dashboard

- Glue the instrument panel ② up under the dashboard/coaming ④. The gunsight on the dashboard fits into the slot on the instrument panel. See *Figure D*.
- CAREFULLY glue the left and right HUD support arms ⑤ & ⑥ in place on the dashboard and glue a small piece of clear acetate in place to represent the HUD.

Figure C

Remove approximately this section

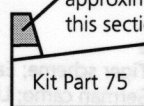
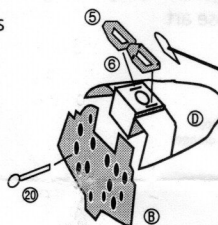


Figure D

Add small acetate HUD glass as per kit piece



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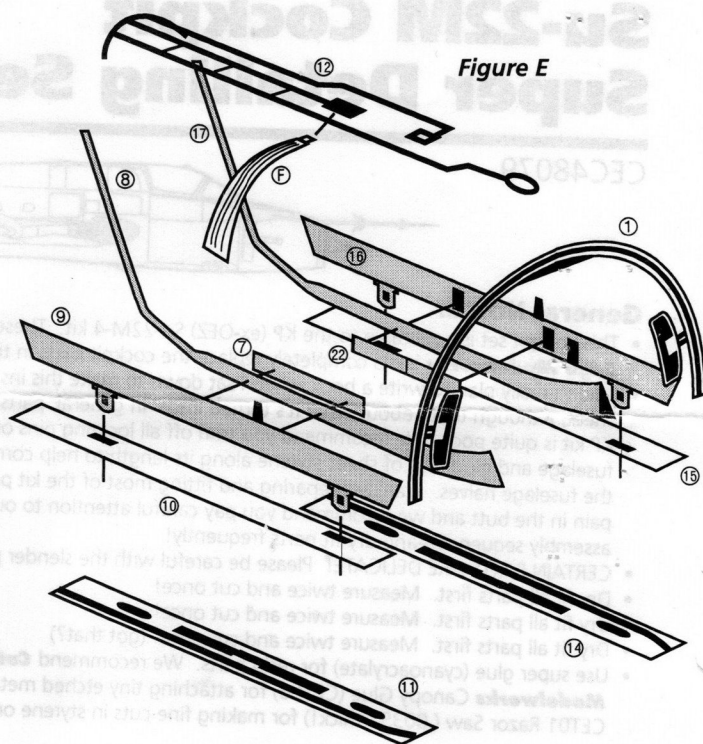
Cockpit master patterns by Scott Battistoni. K-36 Ejection Seat by Dave Klaus

# Su-22M Cockpit Instructions, Page 2

- Drop this assembly into place on the assembled fuselage. You must slightly turn the assembly to allow the instrument panel to pass through the cockpit opening. Make sure the windshield fits properly over the assembly once it's in place.
- Glue the control stick ⑥ and ejection seat ⑥ & ① in place.
- Glue the landing gear retraction handle ③ on the instrument panel and canopy lock ② on the right sidewall.

## Canopy Detailing

- We've provided quite a bit of etched metal for detailing an open canopy. Some parts represent tubing or other three dimensional objects, so for these areas we recommend you use white glue to add depth to the etched part. See *Figure E*.
- Glue the canopy arch ① in place on the front of the clear canopy.
- Carefully glue the canopy interior panels ⑧ & ⑩ at right angles to their respective canopy sills ⑨ & ⑪. The canopy locks pass through the slots in the canopy sills.
- The canopy heating ducts ⑦ & ⑫ would benefit from a coat of white glue or surfacer to give them an increased three dimensional look. When dry, glue to the canopy interior/hooks parts.
- Glue the placards ⑦ & ⑫ to the canopy heating ducts.
- Carefully glue the completed assemblies to the insides of the clear canopy. The "tails" of the cockpit heating ducts will bend to follow the canopy interior curve.
- CAREFULLY bend the rear portion of the canopy piping assembly ⑬ to match the interior curve of the canopy. All the long straight parts of this assembly are tubes, so use white glue or surfacer to give them a three dimensional look. When dry, glue in place.
- Glue the nuclear flash curtain (folded) [sometimes called the blind flying screen, although we call it the toenail] ④ in place. The top glues to the rectangular part of the canopy piping assembly ⑬ and the bottom against the right side of the canopy.
- Glue the left and right cockpit sills ① & ⑩ in place on the fuselage.
- Glue the canopy elevation mechanism base ⑤ in place above and behind the cockpit tub. This part replaces kit part 49. Use a small length of sprue to represent the canopy raising piston.
- Glue the windscreen arch ② in place.



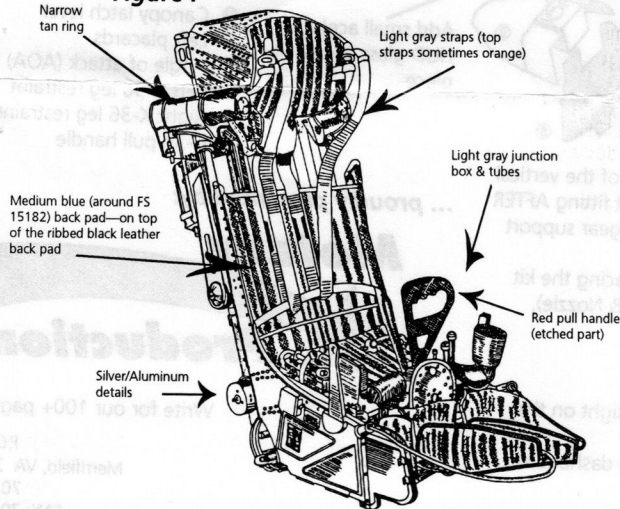
## References for the Su-22:

- Sukhoi Su-22M-3*, by Zoltán Buza. Verlinden Publications, 1994.  
*Su-22M-4, UM-3K*, by Jiri Basny, Jiri Brázda, Michal Ovcacik & Karel Susa. 4 + Publications, 1992. This is far and away the best single publication on the Fitter.  
*Su-22M-4*, by Piotr Cebulok, et al. Przegląd Konstrukcji Lotniczych #1, Altair, 1991.  
*Suchoj Su-22M4*, by Kreslil Martinec. Hobby Manual #16, 1991.

## Related Cutting Edge Modelworks products:

- CEC48004 Soviet Smart Weapons (2x Kedge & 2x Kilter)
- CEC48018 Soviet Weapons #2 (2x Kedge)
- CEC48019 Soviet Weapons #3 (2x Kilter)
- CEC48080 Su-22 afterburner can & nozzle
- CEC48081 Su-22 bulged wheels
- CEC48082 Su-22 exterior detailing set
- CEC48083 Su-22M-1/3 revised fin base
- CED48019 Fitter Decals: East German Tiger scheme; East German Navy special scheme; East German camo; Libyan
- CED48020 Fitter Decals: 2 Iraqi; Angola; Hungarian "bee;" Slovak; 3 Russian; 2 Polish with nose art

Figure F

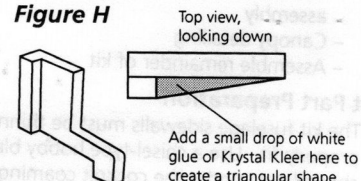


Cockpit pattern by Scott Battistoni; K-36 seat & etched metal by Dave Klaus  
 © 1996, Cutting Edge Modelworks

Figure G



Figure H



- File the bottom of the K-36 ejection seat base ⑥ to allow the seat to recline against the rear cockpit tub wall between the ejection rails. See *Figure F*.
- Glue the etched K-36 pull handle and left and right leg restraints ② & ③ in place. The leg restraints will look more realistic if they are annealed for a moment to make the metal softer and easier to shape. Annealing means QUICKLY and CAREFULLY moving the part through a flame, such as from a match, candle, or cigarette lighter. Too much time in the flame will literally burn the part up, and too little time won't make the any easier to bend. BE CAREFUL!
- Glue the desired K-36 head box (K-36D/Type I ④ or K-36DM/Type II ⑤) in place. Note that the K-36D (larger head box) was used on most Su-17s & Su-22s we've seen, while the smaller K-36DM head box has only been photographed on a few very late model Su-17/22s. The drawing at left shows the K-36D headbox (the larger variant).
- CAREFULLY cut the ODD RODS antennas ④ and ⑤ from the etched metal fret. Pass the antennas through the ODD RODS base ③ and ④ from the bottom and glue together (*Figure G*). Glue the completed assemblies in place.
- CAREFULLY place a tiny drop of white glue or Krystal-Kleer on each vane of the etched Angle of Attack (AOA) ⑥ to give them a triangular shape when viewed from the top (*Figures H*). Glue in place when the white glue is dry.