

More than any other single factor, it was the airplane that turned the tide against the submarine in W.W.II. Able to detect, track and kill submarines at long ranges, thus keeping them away from convoys, they sealed the fate of the U-boats and Germany as a whole. The lack of a powerful airborne-radar system able to be carried by carrier-bome aircraft was not solved until shortly after W.W.II when the APS-20 radar was mounted on modified TBM-3W Avengers. This was followed by the Grumman Guardian, the AD-4W Skyraider (available in a 1/48 scale kit from AMT/WINGS), the S-2 Tracker and, finally, the S-3A Viking.

The Viking first flew in January, 1972, and was considered an urgent program as the aging piston-engined S-2 badly needed replacement. The first production examples of the S-3 were delivered in February, 1974. However, the highly-advanced computer and sensor system necessitated a protracted workup, and it wasn't until June, 1975, that VS-21 became the first unit to go on a protracted cruise. The two-man electronic suite is so capable that it was chosen by the Canadians for their CP-140 derivative of the land-based Orion P-3 ASW aircraft. Among the sensors aboard are radar, FLIR, passive ESM, MAD and as many as 60 sonobouys.

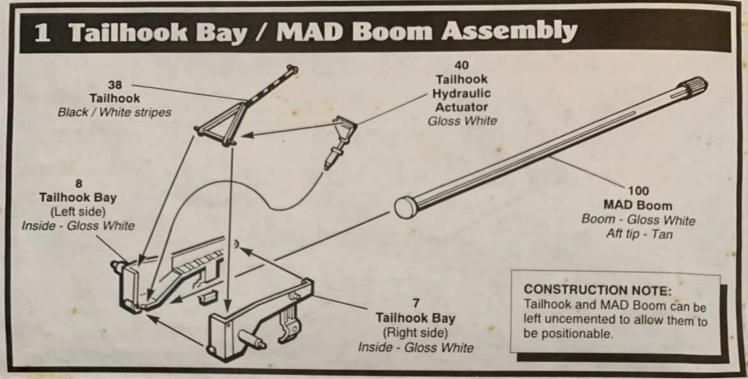
The Viking, powered by two GE TF34 high by-pass ratio by-

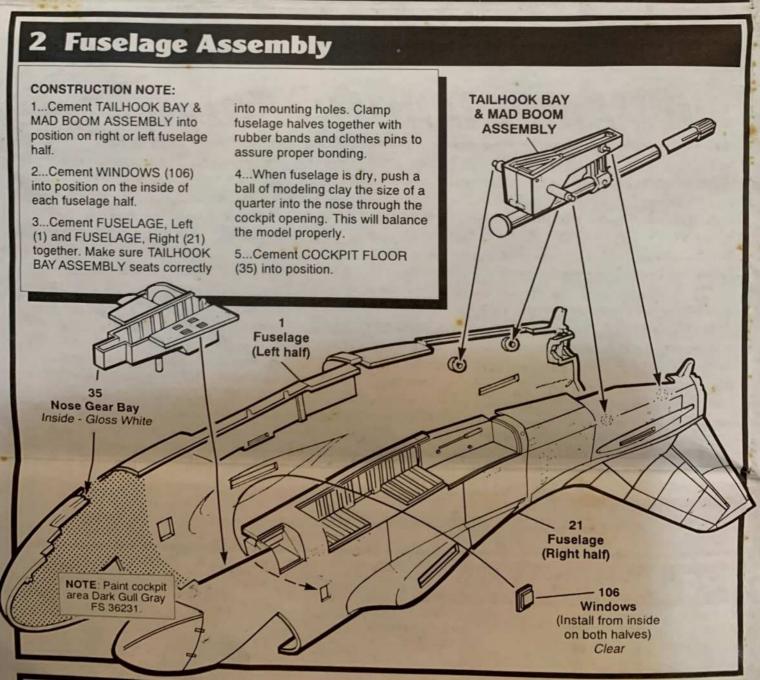
pass ratio turbofan engines, is a portly, fairly surprisingly small airframe. Highly capable, the S-3 can loiter on patrol at 160 knots (184 mph) for such a long time, given its midair refueling capacity, that crew fatigue is the largest limiting factor to staying on station.

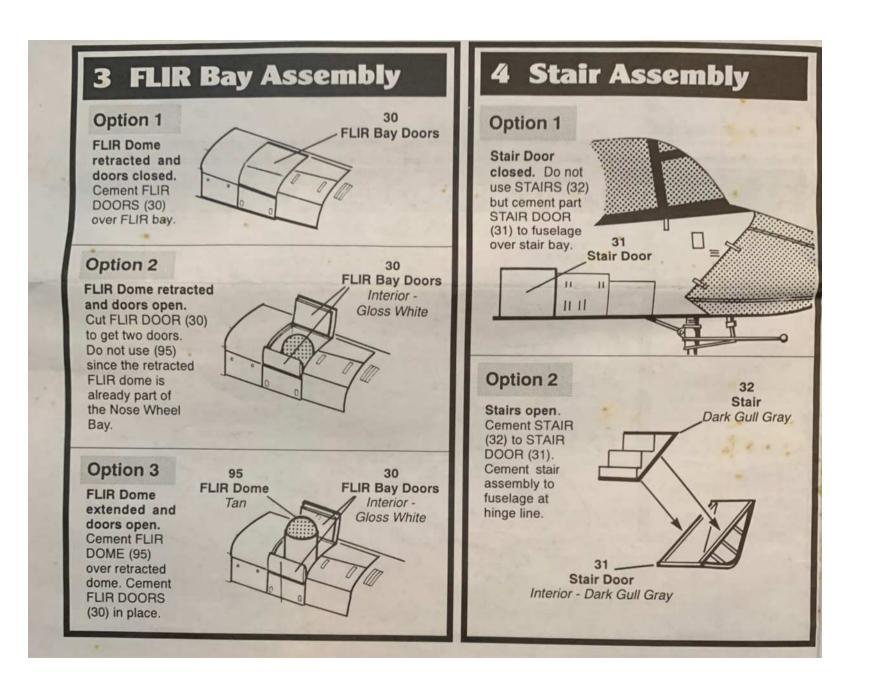
Armament options are wide, and include both internal and external stores. Rockets, bombs, depth charges, cluster bombs (CBUs), flares and torpedos can be carried. Later models can carry Harpoon anti-ship missiles. It was in this anti-submarine, anti-ship configuration the S-3A saw action in Operation Desert Storm. Typical underwing configuration is two 300 gallon (U.S.) fuel tanks, one of which is designed for "buddy system" mid-air refueling for Navy aircraft.

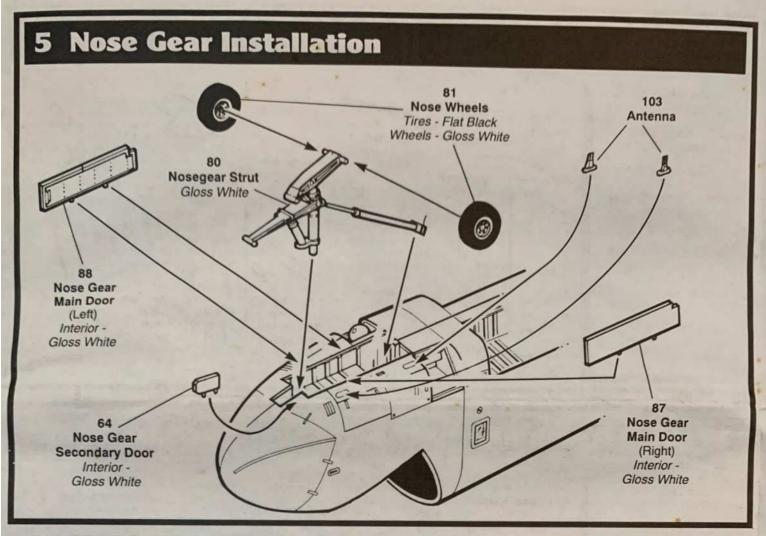
The S-3 has proven to be an extremely versatile aircraft, and has been modified for a variety of roles, including the US-3 priority Carrier-On-Board-Delivery (COD), the S-3B with Harpoon capability, and most recently, the highly-modified ES-3A Shadow electronic warfare/intelligence version which replaced the aging EA-3/ERA-3/KA-3 Skywarrior.

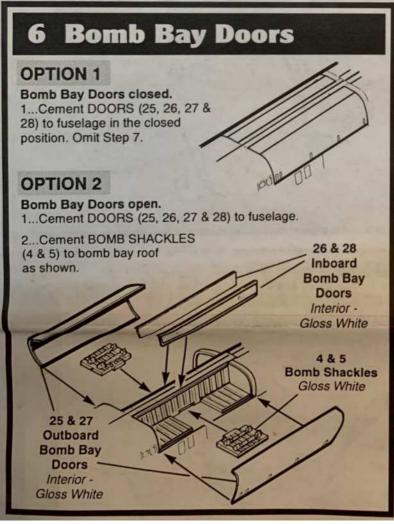
We hope you enjoy building your highly-detailed AMT/ WINGS kit of this important U.S. Navy aircraft.

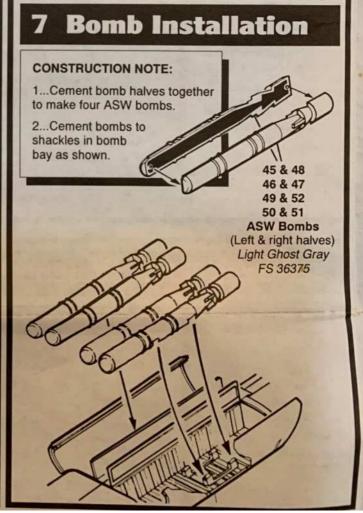


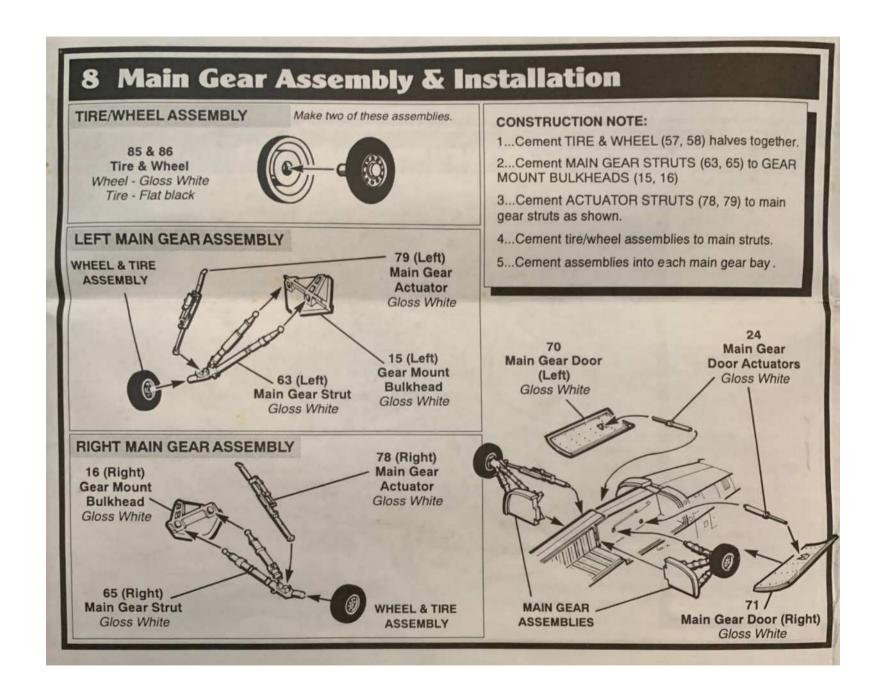


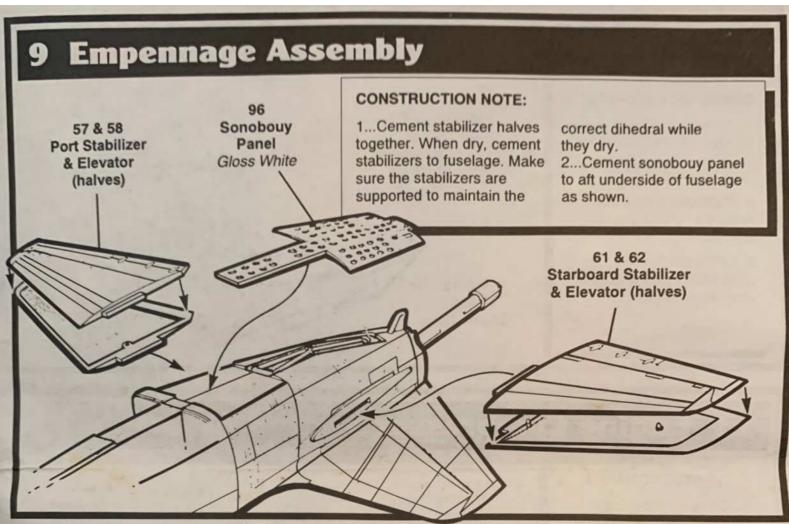




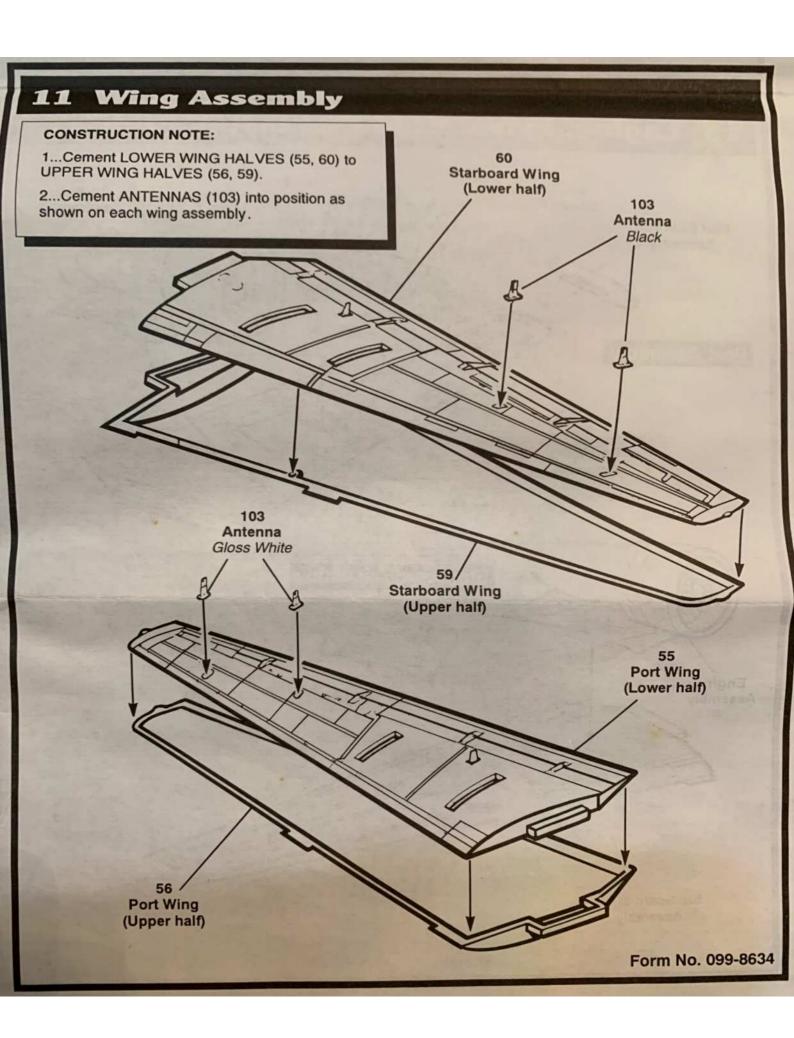








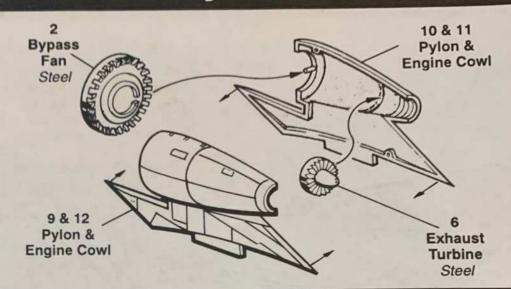




# 12 Aft Engine Section & Pylon Assembly

## CONSTRUCTION NOTE:

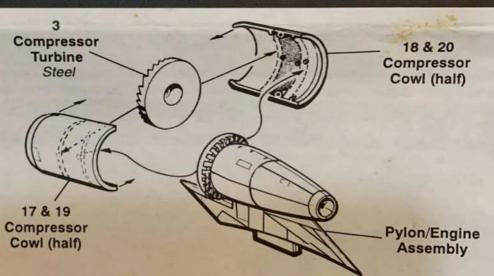
- 1...Cement Exhaust Turbine Wheels (6) into position on each left Pylon & Engine Cowl (10, 11).
- 2...Cement left and right Pylon & Engine Cowl halves together.
- Cement a Bypass Fan
   to each Pylon & Engine Cowl assembly.



## 13 Engine Compressor Section Assembly

## CONSTRUCTION NOTE:

- 1...Cement Compressor Turbine (3) to the left Cowls (18, 20).
- 2...Cement each Compressor Cowl & Compressor Turbine assembly to a Pylon & Engine Cowl Assembly.
- 3...Cement remaining Cowl halves (17, 19) to the Engine Cowl/Pylon assemblies.

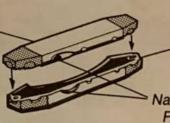


# 14 ECM Pod Assembly

## CONSTRUCTION NOTE:

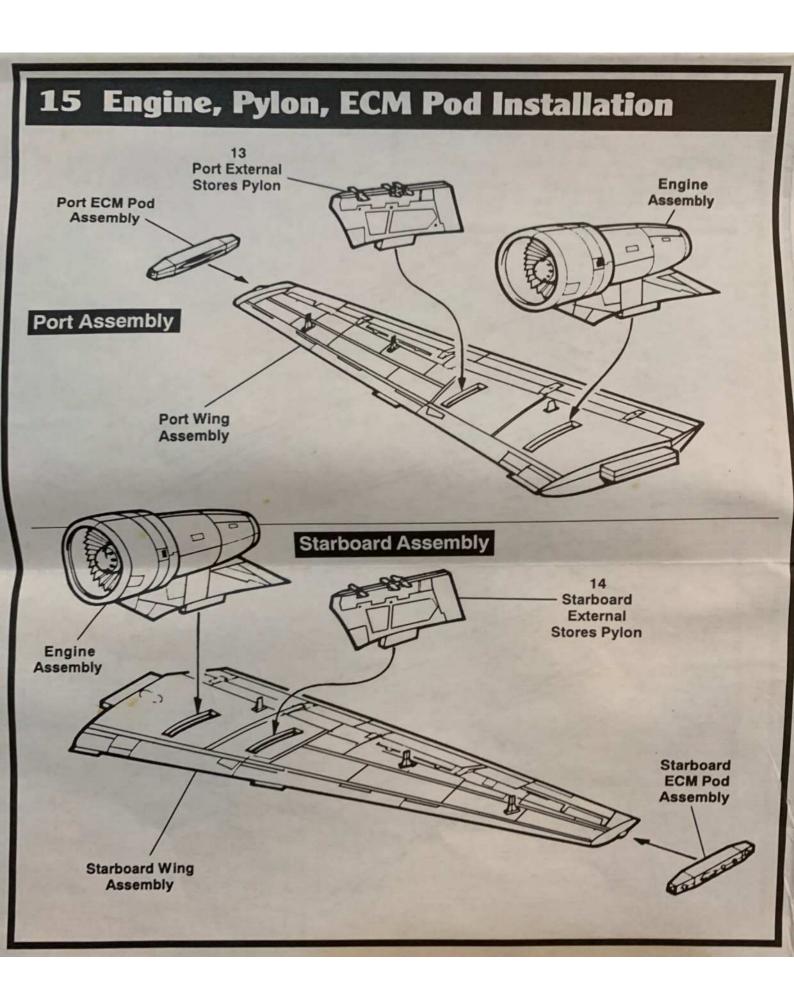
- 1...For port wing pod cement Pod halves (44 & 43) together.
- 2...For starboard wing cement Pod halves (53 & 54) together.

44 & 53 ECM Pod Ends - yellow Body - Light Gray



43 & 54
ECM Pod
Ends - yellow
Body - Light Gray

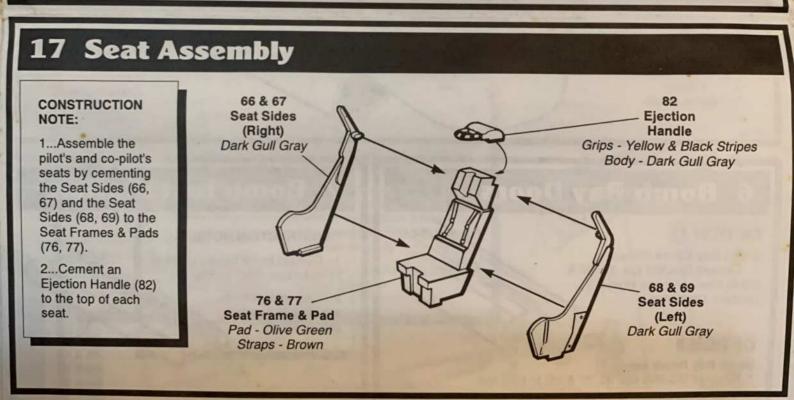
Navigation Lights: Port wing: Red Starboard wing: Green



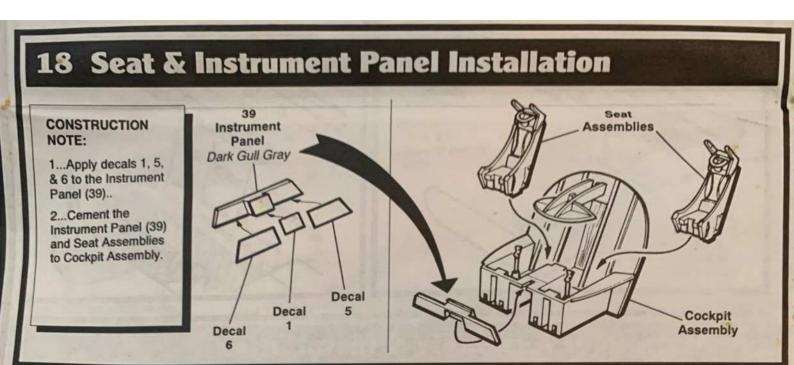
#### 16 Cockpit Interior Assembly **UPPER CONTROL** PANEL CONSTRUCTION **Upper Control** 36 NOTE: Panel Rear Decal 1...Paint all parts Dark Bulkhead 47 Decal Gull Gray FS36231 2...After applying decals 47, 48 & 49, cement Upper Control 83 Panel (84) to Cockpit **Control Sticks** Rear Bulkhead (36). Grips - Black 2...Apply decals 2, 3 & Decal 4; cement Cockpit 48 Floor & Consoles (37) to Rear Bulkhead Decal assembly. 3 3...Cement Control 37 Sticks (83) into Cockpit Floor Decal position.

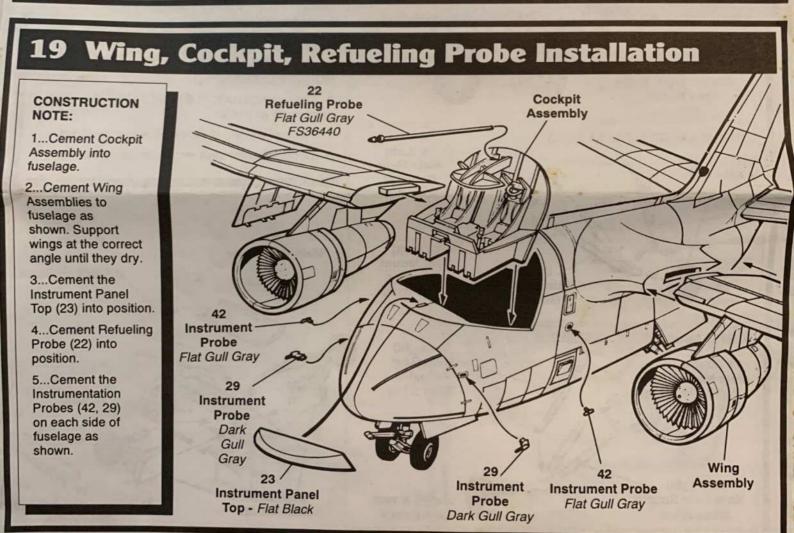
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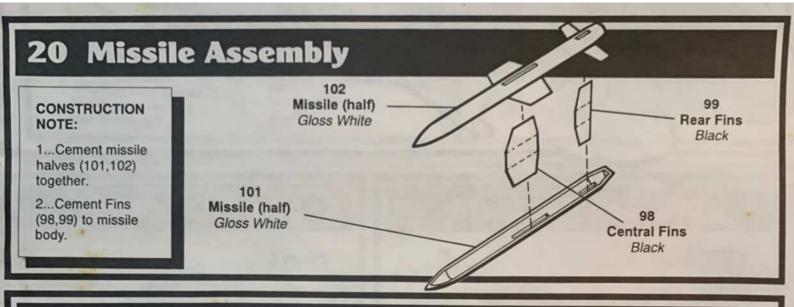
& Consoles

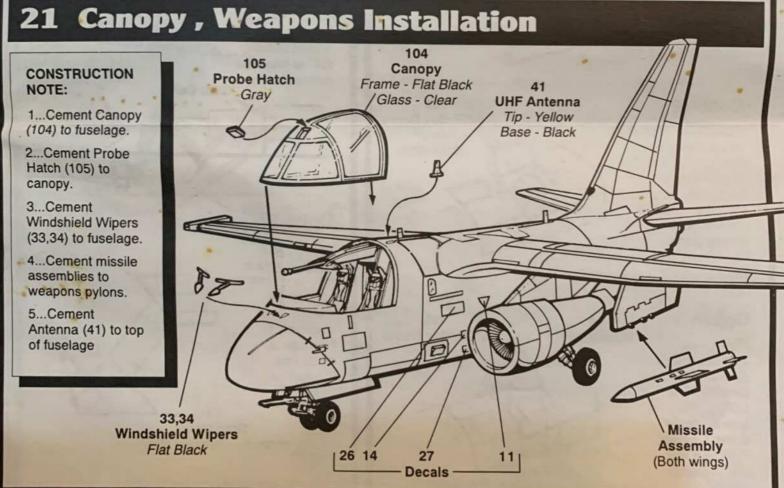


Decal









FORM No. 099 - 1185



# SUBMARINE HUNTER / KILLER



## IMPORTANT

Before you begin to assemble your model kit, study the instructions carefully. This will help you to familiarize yourself with the part locations as you proceed. Prior to cementing parts together, be sure to "TEST FIT" them in order to assure proper alignment and also to check for excess "FLASH" that may occur along parting lines. Use a sharp hobby knife or file to remove flash if necessary.

If you wish to paint your model, various sub-assemblies and components should be painted before any parts are attached. During assembly, you may note that the recommended color is stated after the part

This model kit is molded from the finest high-impact styrene plastic. Use only paints and cements which are specifically formulated for styrene. Read all labels and warnings carefully.

Because the cement will only adhere to bare plastic, it is necessary to remove any paint or "plating" from the area to which the cement is to be applied.

## BUILDING TIPS FOR THE ADVANCED MODELER

For the best possible finish, your kit should be painted, even if molded in color. Paint should be applied evenly, in several thin coats rather than one heavy coat. The first coat should not completely cover the surface. Each layer should be allowed to thoroughly dry before the next is applied.

It is important to keep your hands clean when working with your model and wash parts thoroughly before painting to remove any mold release agent that may have been used during manufacture, body oil from your hands, sanding residue, and dust, which is naturally attracted to plastic by static electricity. Use a mild solution of dishwashing detergent and water. A tack rag should be used to dry the parts, DO NOT use paper towels or tissues, since they will leave lint on the part.

Parting lines and glue joints should be sanded or filed prior to painting. Because paint has a tendency to draw away from sharp edges, they should be lightly filed. Use filler putty designed for plastic to fill small gaps that may occur between parts and to blend contours. This should be done only after the first, or "primer," coat of paint is applied.

When painting a multi color scheme, the lightest color should be painted first. Use frosted, or "magic," tape to mask off the area you do not want painted. After the second color is dry to the touch, the tape can be removed. Use a very fine brush to touch up edges if necessary. If decals are to be added, do so before adding any gloss coat. A gloss coat will help even out the edges between the two colors as well as set the decals.

NOTE: Federal standard colors The military services use standardized colors, each receiving a specific five digit identification number. Grays, for instance, are all 6000, and gloss paints begin with a 1, semi-gloss 2, flats 3. Thus a gray color can be gloss (16251), semi-gloss (26251) or flat (36251)

### RECOMMENDED TOOLS

## HOBBY KNIFE

Use a sharp hobby knife to remove parts from the trees. The knife may also be used to remove parting lines and flash.



### TWEEZERS

Use tweezers to hold small parts during assembly, painting and when applying cement.



#### BRUSH

We recommend the use of liquid polystyrene cement. Apply with a fine brush. Use sparingly or a sloppy job will result.



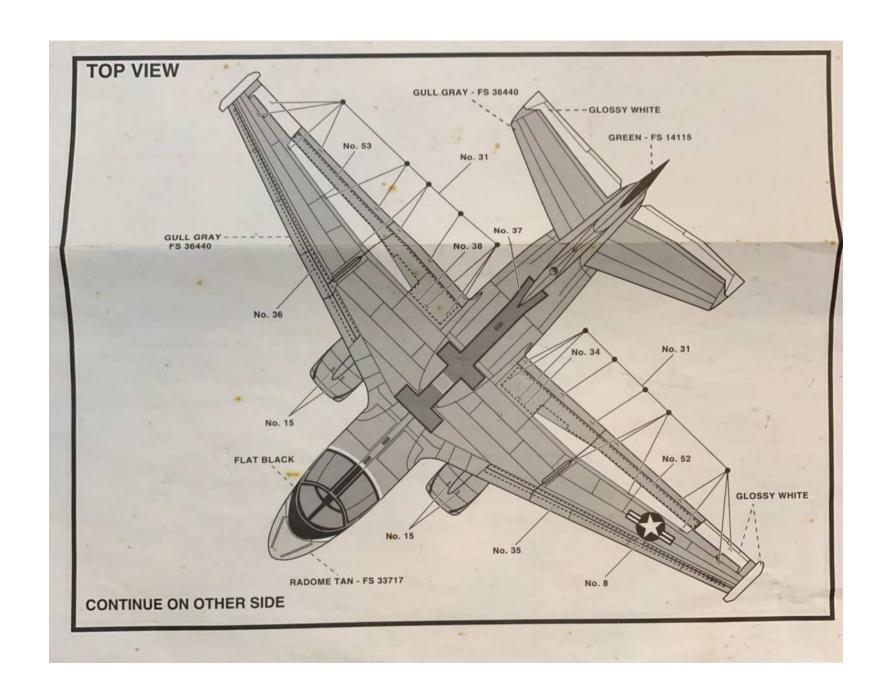
## READ ALL LABELS AND WARNINGS CAREFULLY

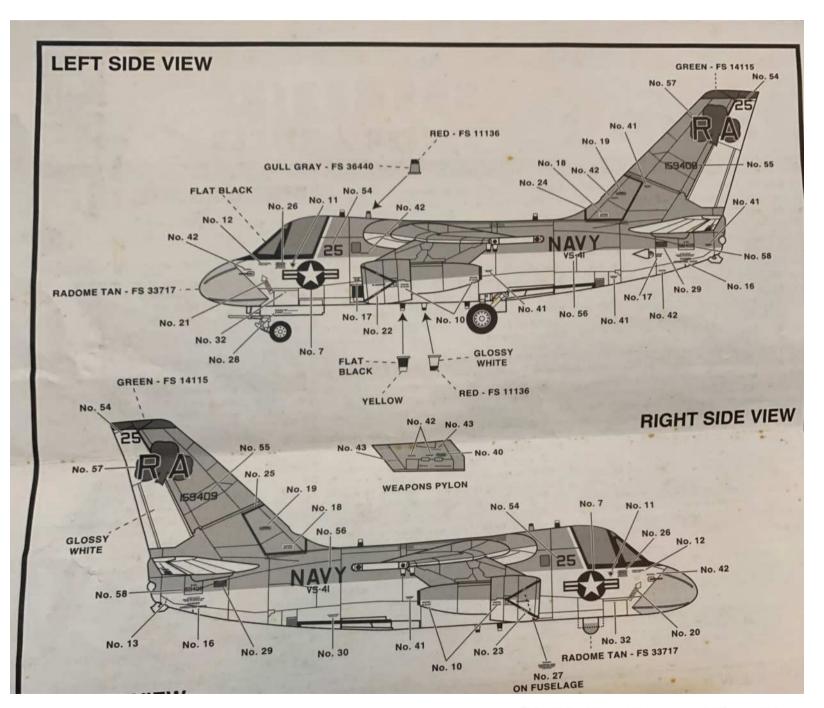
We take great pride in providing the finest model kits available, giving strong attention to detail and craftsmanship. Should you have any difficulty with assembly or missing parts, please call the appropriate number listed below between the hours of 8:00 am to 4:30 pm central time, Monday through Friday.

In the U.S.A. call toll free 800 - 553 - 4886

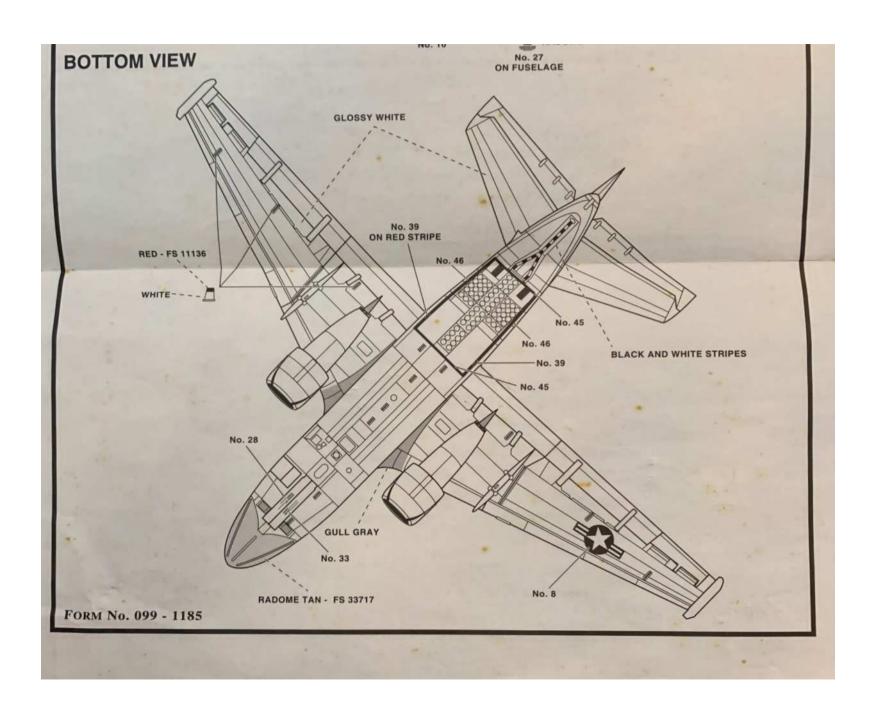
Outside of the United States call 1 - 319 - 875 - 2000

When in the Midwest, please visit the ERTL Company for a tour of the AMT production facilities, 10am & 1pm weekdays. Reservations suggested.





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