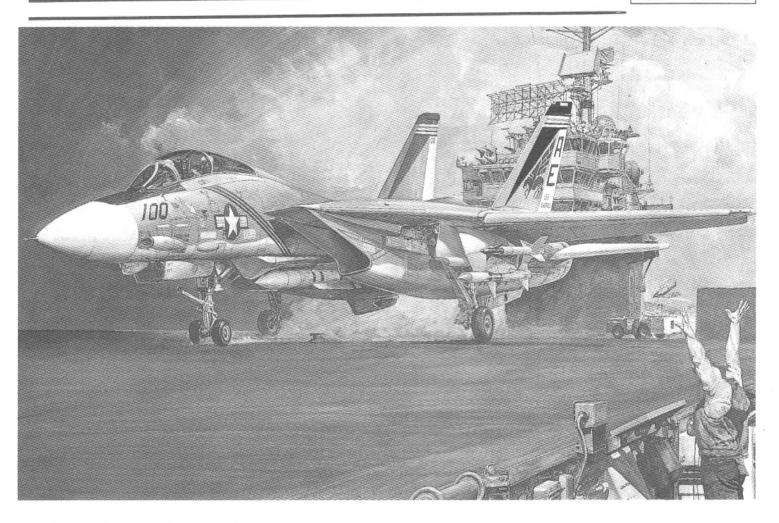
# GRUMMAN F-14A TOMCAT ACADEMY

HOBBY MODEL KITS



The failure of the F-111B to meet the requirements set forth by the Navy resulted in a new competition for a suitable carrier-based fighter. Although variable-sweep wings were not required under the new specifications, Grumman proposed such a feature on their entry. By virtue of their involvement with the XF10F-1 Jaguar and the F-111B, Grumman had accumulated more experience with movable wings than any of the competing companies. On January 15, 1969, Grumman's Model 303 was selected to become the Navy's new F-14A air superiority fighter; the designation F-13 was bypassed. Six planes were to be built for the development program, followed by six more pre-production F-14A's. By the end of 1970, the prototype F-14A was completed, and given the name Tomcat.

Following the necessary ground tests, the F-14A was readied for its first flight on December 21, 1970—a full month ahead of the program. Unfortunately, the time gained by the earlier test schedule was lost when, on the second flight, the hydraulic system failed and the first Tomcat was destroyed. The ejection system functioned as advertised, however, and the crew safely abandoned the stricken plane.

An interesting feature of the F-14 is the pair of retractable vanes mounted in the leading edge of the glove which blends the movable wings into the fuselage. These triangular glove vanes extend outward for added stability as needed

and can be operated manually or programmed by a computer. The Tomcat is also unusual in being the first production plane to use strong, but lightweight, composite boron-epoxy in its construction. The horizontal stabilizer structure features this material.

The F-14A reflects a return to fixed cannon armament with the inclusion of an M61A-1 20 mm rotary cannon, with 675 rounds, in the port side of the fuselage. Six Phoenix AIM-54A missiles can be carried and launched simultaneously-each one directed to a different target. All the hardpoints are situated on the rigid portion of the glove and fuselage, obviating the need for swiveling pylons on the

Nacelles mounted beneath the glove house a pair of Pratt & Whitney TF30-P-412 turbofans with an afterburning rating of 20,9000 lbs. Internal fuel capacity is 16,-445 pounds. The unloaded weight of a Tomcat is 40,070 pounds; take-off gross weight is 55,000 pounds.

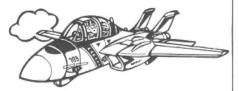
With its wings in the forward position, the F-14A has a span of 64 feet 11/2 inches. In normal swept condition, the span reduces to 38 feet 2 inches. For carrier stowage, the wings can be positioned over the stabilizers reducing the span to only 33 feet 3½ inches. Wing area is 565 square feet. In flight, the sweep angles range from 20 to 68 degrees. Overall length is 61 feet 111/2 inches; height is 16 feet even. The Tomcat's maximum design speed is Mach 2.34, or over 1,500 mph.

## Courtesy U.S. FIGHTERS by Lloyd S. Jones Aero Pub.

ENGLISH	FRENCH
WHITE	BLANCO
YELLOW	JAUNE
RED	ROUGE
BLUE	BLEU
GRAY	GRIS
GUNMETAL	METALLIC
GREEN	VERT
SILVER	ARGENT_
BLACK	NOIR

GERMAN	SPANISH
WEISS	BLANC
GELB	AMARILLO
ROT	ROJO
BLAU	AZUL
GRAU	GRIS
METALLIC	METALICO
GRUN	VERDE
SILBERN	PLATA
SCHWARTZ	NEGRO

ITALIAN	į
BIANCO	_
GIALLO	
ROSSO	
BLU	_
GRIGIO	
METALLICO	
VERDE	
ARGENTO	
NERO	
	-



## **IMPORTANT**

Read the instructions first before starting assembly.

If not sure, dry assemble the parts together using cello tape before applying model cement.

Always use a cement designed for styrene model kits.

Don't use too much cement

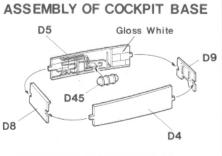
Always paint in a very well ventilated are.



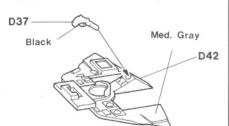
THE PILOT AND PLANE

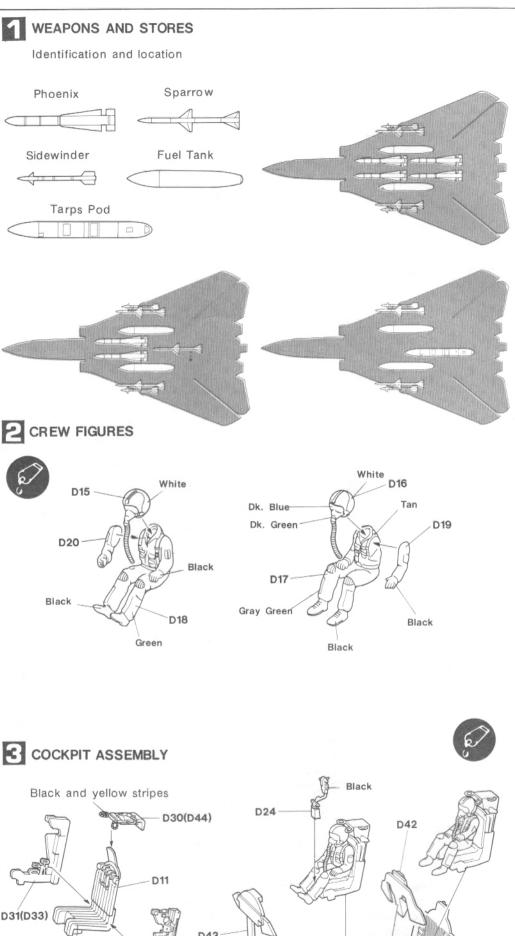


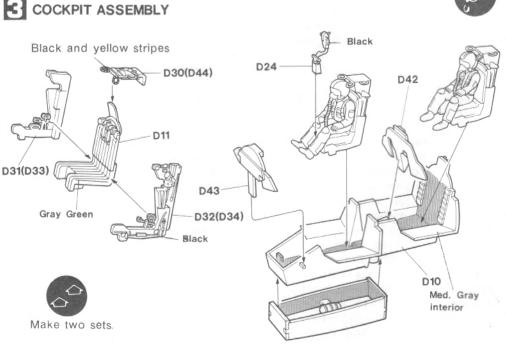
THE PILOT'S OFFICE



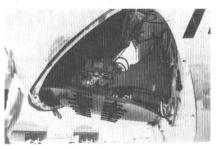
### ASSEMBLY OF CONSOLE



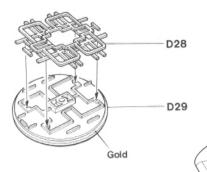




#### THE RADAR ARRAY

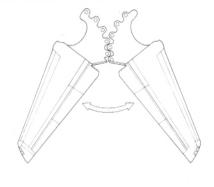


ASSEMBLY OF RADAR ARRAY

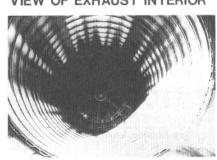


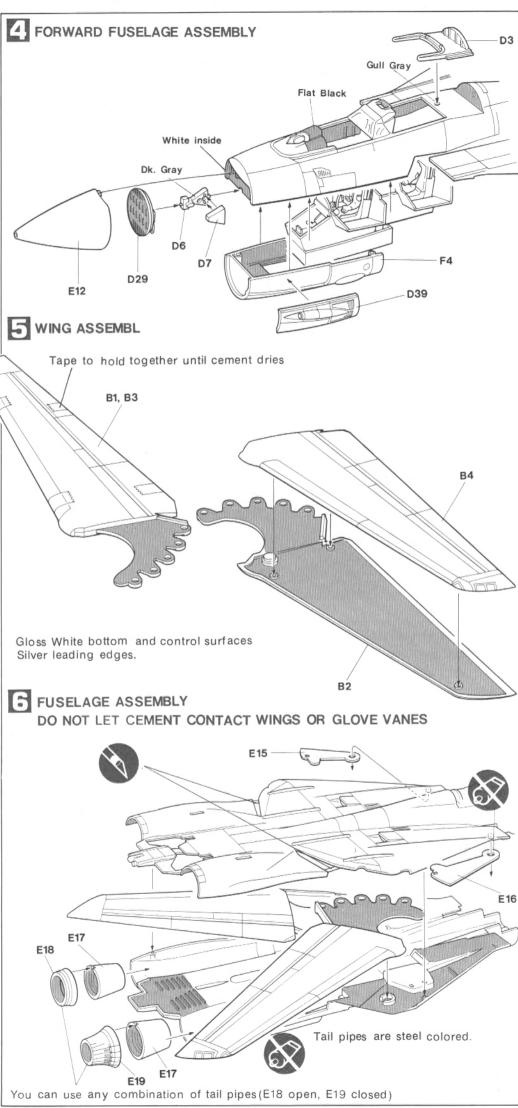


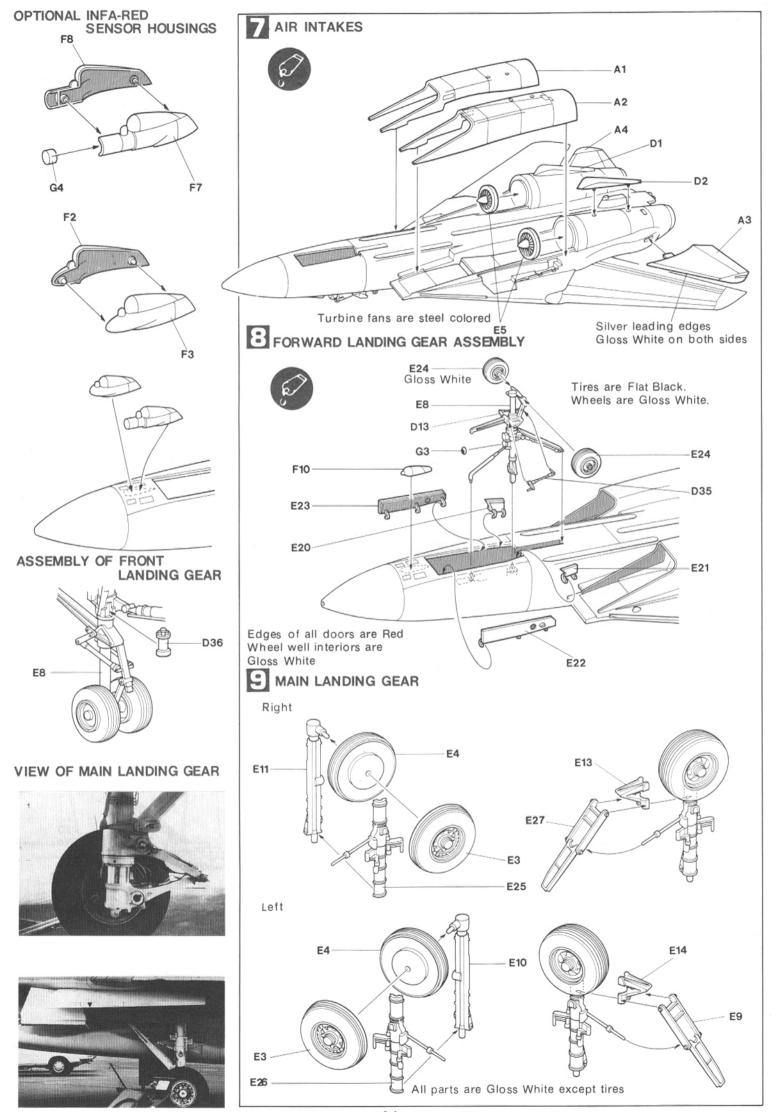
ASSEMBLY OF MOVEABLE WINGS



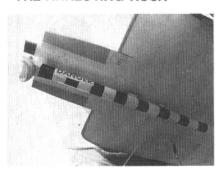
VIEW OF EXHAUST INTERIOR



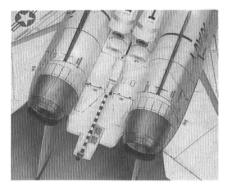




#### THE ARRESTING HOOK



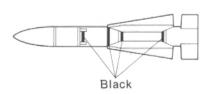
THE UNDERSIDE

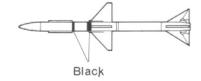


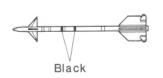
THE ARMAMENT



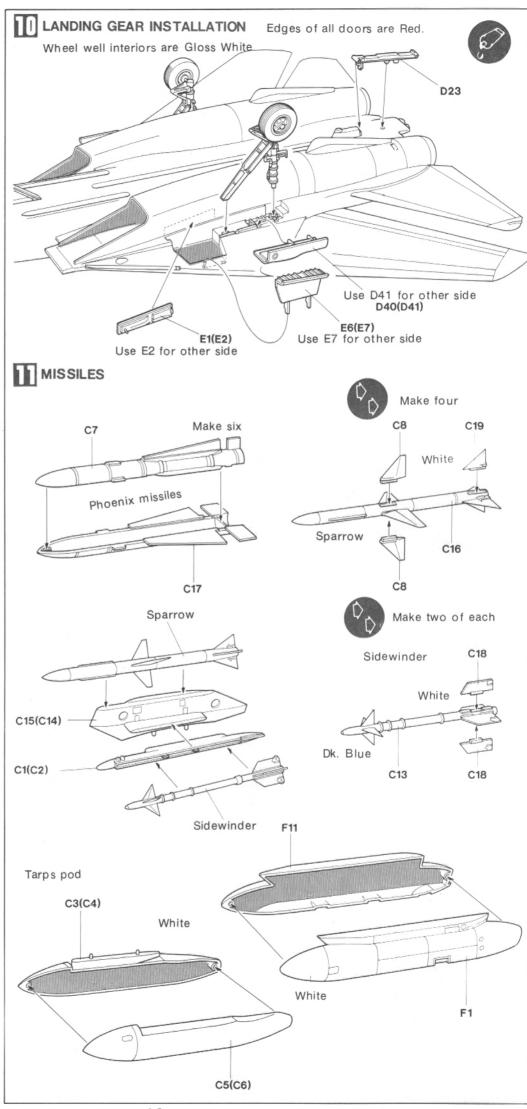
PAINTING OF MISSILES











THE TARPS POD WEAPONS INSTALLATION C12(C11) C9(C10) ALL WEAPONS IN PLACE F5(F6) Use F6 for other side. CANOPY INSTALLATION SIDE VIEW OF WEAPONS G1 D22 D21 D22 D25 D27 F9 D27 D26 14 RUDDER AND SPEED BRAKE INSTALLATION Silver leading edges SPEED BRAKE UP D12 D14

Red inside of speed brake. Gloss White inside brake well.

