

INSTRUCTIONS FOR ASSEMBLING THE LUNAR PROBE WITH SERVICING TOWER

BEFORE ASSEMBLING MODEL, STUDY SKETCH CAREFULLY.

IMPORTANT—APPLY CEMENT TO INSIDE SURFACES ONLY. AVOID GETTING CEMENT ON OUTER SURFACES OF MODEL SECTIONS. USE CEMENT VERY SPARINGLY AND AVOID GETTING CEMENT ON HANDS, SO AS NOT TO MAR OR SMEAR PLASTIC SURFACES.

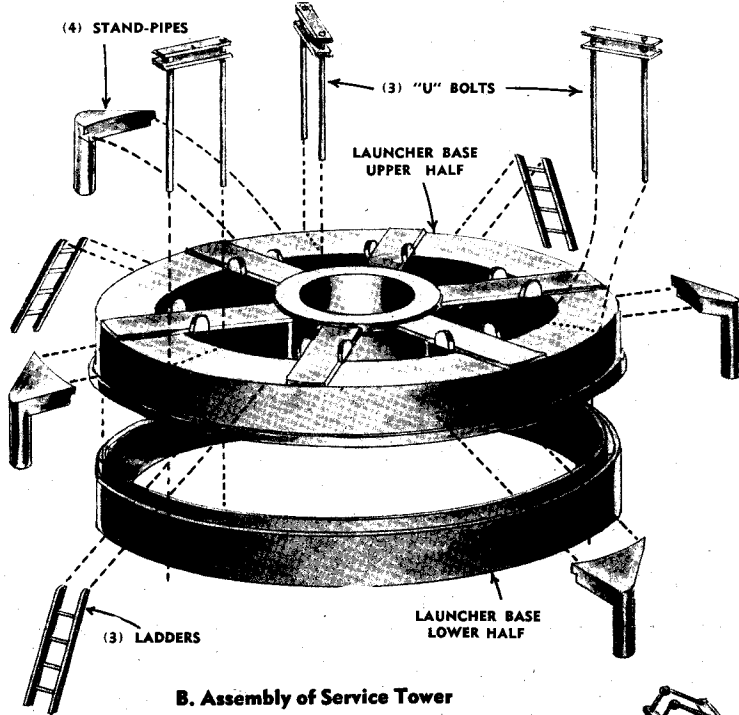
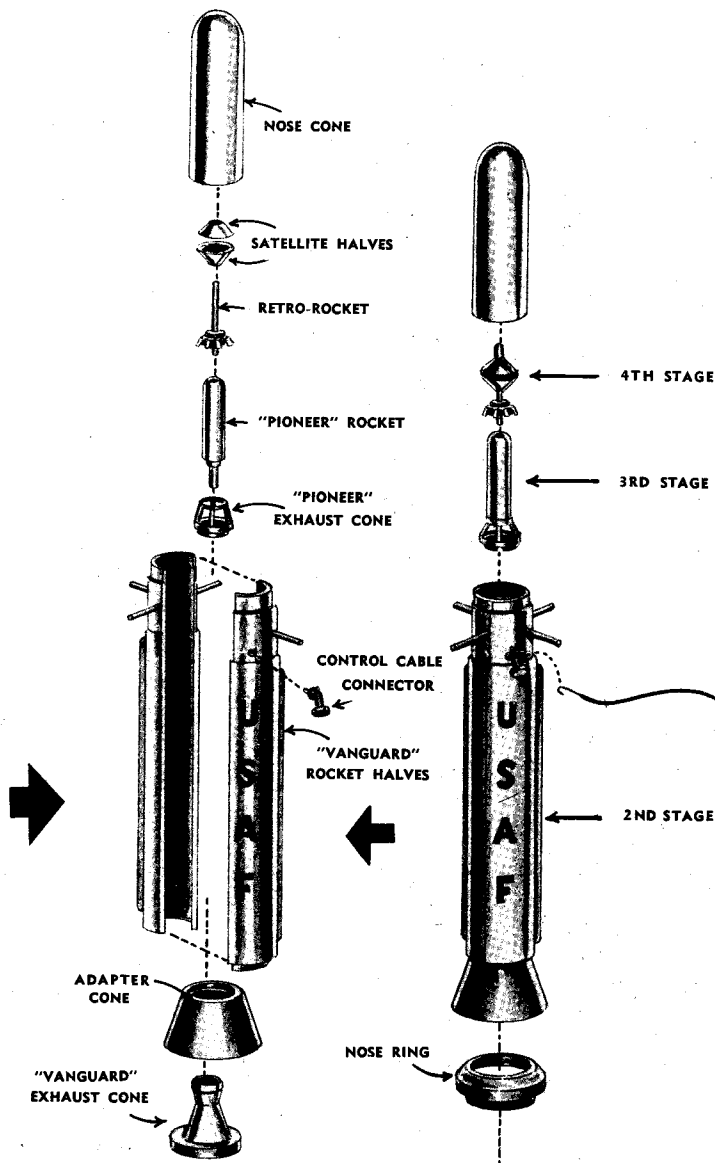
DO NOT HURRY. WORK CAREFULLY AND PATIENTLY.

IMPORTANT NOTE: BEFORE PROCEEDING TO CEMENT PARTS TOGETHER, IT IS ADVISABLE TO FIT PARTS TOGETHER DRY (WITHOUT CEMENT) SO THAT YOU MAY FAMILIARIZE YOURSELF WITH THE PARTS AND HOW THEY GO TOGETHER, ALSO NOTING THE POINTS WHERE CEMENT IS TO BE APPLIED.

FOR BEST RESULTS ASSEMBLE MODEL EXACTLY IN THE ORDER INDICATED.

A. Assembly of Four Stage Rocket

1. Assemble, DO NOT CEMENT, UPPER and LOWER SATELLITE HALVES onto RETRO-ROCKET.
2. Cement "PIONEER" ROCKET to "PIONEER" EXHAUST CONE.
3. Assemble, DO NOT CEMENT, SATELLITE and RETRO-ROCKET ASSEMBLY to NOSE OF PIONEER ROCKET. Set assembly aside.
4. Cement VANGUARD ROCKET HALVES together.
5. Cement ADAPTER CONE to VANGUARD ROCKET BODY.
6. Cement VANGUARD EXHAUST CONE to VANGUARD ROCKET BODY. Set assembly aside.
7. Cement "THOR" ROCKET BODY HALVES together.
8. Cement NOSE RING to top of "THOR" ROCKET BODY.
9. Cement INNER and OUTER "THOR" EXHAUST CONE HALVES together.
10. Cement "THOR" EXHAUST CONE ASSEMBLY to "THOR" ROCKET BODY.
11. Cement OXYGEN LINES CONNECTOR to side of "THOR" ROCKET BODY.
12. Cement (2) FUELING PODS to "THOR" ROCKET BODY.
13. Cement FUEL GAUGE PANEL to SIDE of "THOR" MISSILE BODY.
14. Cement (4) STABILIZER FINS to "THOR" MISSILE BODY.
15. Assemble, DO NOT CEMENT, VANGUARD ROCKET ASSEMBLY to top of "THOR" ROCKET.
16. Assemble, DO NOT CEMENT, "PIONEER" ROCKET and SATELLITE ASSEMBLY to top of VANGUARD ROCKET.
17. Assemble, DO NOT CEMENT, NOSE CONE over "PIONEER" ROCKET and SATELLITE.
18. Cut out sections of DECALS to correspond with markings on MODEL or SKETCH. Read directions on back of DECALS before applying. Allow to dry before any further handling.



B. Assembly of Service Tower

1. Cement UPPER and LOWER HALVES of LAUNCHER BASE together.
2. Locate and cement (3) "U" BOLTS to LAUNCHER BASE.
3. Locate and cement (3) LADDERS to side of LAUNCHER BASE.
4. Locate and cement (4) STAND-PIPES to side of LAUNCHER BASE.
5. Cement (6) TOGGLE BRACES to top of LAUNCHER BASE.

6. Cement (4) SIDES OF SERVICE TOWER together.
7. Cement (2) "K" FRAMES to back of TOWER HINGE PANEL (#1).
8. Cement TOWER BASE PANEL (#2) to bottom of "K" FRAMES and TOWER HINGE PANEL.
9. Cement TOWER to top of "K" FRAME and TOWER HINGE PANEL.
10. Cement INVERTED "V" SHACKLE to back of TOWER HINGE PANEL (#1) and bottom of TOWER.
11. Cement HYDRAULIC CYLINDER to INVERTED "V" SHACKLE and to TOWER BASE PANEL (#2).
12. Cement (2) SAFETY NET RECTANGULAR FRAMES to front of TOWER.
13. Cement EXTENSION TOWER to top of TOWER.
14. Cement SAFETY NET "V" FRAME NEAR top of TOWER EXTENSION.
15. Cement PUMP CAP to top of HYDRAULIC PUMP.
16. Cement (2) CONTROL CABLE CONNECTORS to side of MISSILE and one (1) NEAR TOP and one (1) NEAR BOTTOM of MISSILE as shown in sketch.
17. Cement LAUNCHER BASE, TOWER, HYDRAULIC PUMP, CONTROL BOX and SERVICE CREW to MOUNTING BASE in position shown in sketch.
18. Connect FUEL LINES (RED and YELLOW WIRES) and CONTROL CABLES (BLACK WIRE) to MISSILE and CONTROL BOX as shown in sketch.
19. Place COVER ON CONTROL BOX.

For suggested detail PAINTING SCHEME see SKETCH. For best results use only AURORA'S SPEED-DRY PAINT—DRIES IN 30 MINUTES—ONE COAT COVERS—NO BRUSH MARKS.

For Cementing, Use AURORA'S POLYSTYRENE CEMENT for plastic model airplanes.

CAUTION Apply the cement only to those places which are to stick together.

THIS CEMENT MAY BE PURCHASED FROM YOUR DEALER!

FACTS ABOUT THE U. S. AIR FORCE LUNAR PROBE

All was in readiness. The gantry had been rolled away from the towering space vehicle and a heavy silence spread across Cape Canaveral, Florida. Four—three—two—one—zero—FIRE! The massive man-made moon rocket rose majestically from its launching pad amidst a thunderous cloud of flame and smoke. The four stage missile gained altitude and speed leaving a fiery bright trail in the black sky of the night. Three minutes later the lunar rocket had disappeared from sight but a giant tracking antenna followed the missile on her voyage through space to the area of the moon. The transmitters of the lunar probe were sending back signals clearly to the various tracking stations around the earth. Mankind was probing the mysteries of outer space; the unknown secrets of that vast, unlimited stretch of the void beyond.

An entirely new chapter in the story of mankind has opened with the exploration of space. The development of rocket rockets, new alloys, and undreamed of sources of tremendous power have unlocked the door to space, and man, the inquisitive, is searching for answers. Part of the International Geophysical Year program, (IGY) the moon probes have definite objectives, viz: obtain successful performance from various propelling stages; achieve an escape velocity from earth's gravitational field; secure outer space data some 250,000 miles from the earth; and maintain control over any instrument package searching through space. More than 300,000 interdependent parts must function properly to assure such a success for the lunar probes.

This space vehicle has four actual propelling stages: the first three will propel the payload capsule to a speed of some 35,000 feet per second enabling it to escape the earth's gravitational field. The fourth stage contains Thiokol rocket motor setup controlled from the earth radio signals to send the lunar probe on its scouting mission in the vicinity of the moon.

The first stage is a USAF THOR IRBM weighing over 100,000 lbs. and delivering a thrust of some 150,000 lbs. The second stage consists of a modified version of the VANGUARD weighing over 4,000 lbs. with a thrust of about 7,500 lbs. The third stage is a Pioneer rocket using a new type solid propellant weighing about 400 lbs with a thrust of approximately 2,500 lbs. The fourth stage, or payload package, combines a solid propellant rocket and an instrument capsule. Eight small vernier rockets are attached to the base of this terminal stage and are controlled by earth radio command to furnish fine velocity and vector control for the instrument package about two minutes after the third stage has burned out.

Inside the instrument package are batteries, a telemetry system to count micrometeorite impingements and compute the magnetic fields of the earth and moon; also, a small TV-type infra-red scanner to relay pictures back to earth. On the earth these signals are received by a communications net encircling the globe. This communications net is comprised of a nerve center in Los Angeles; five prime ground tracking stations (Cape Canaveral, Fla.; Singapore; Manchester, England; Hawaii; and Millstone, New Hampshire) and nine Naval Research Laboratory mini-tracking stations (Ancon, Peru; Antigua, Leeward Island; Antofagasta, Chile; Cotacachi, Ecuador; Grand Turk, Bahamas; Johannesburg, South Africa; San Antonio, Texas; Havana, Cuba; Woernago, Australia; and Santiago, Chile). Glancing back through the ages, evidence shows man's thirst for knowledge opened new frontiers on his planet until over the centuries the family of man is present everywhere on the face of the earth. Now man is breaking the gravitational chains that bind him to earth, new horizons are ahead—today, the moon—Tomorrow, the Galaxies!!!

SEE PHOTO OF FINISHED MODEL ON REVERSE SIDE

"THE ENAMEL WITH THE SPRAYED ON LOOK" ONE COAT COVERS—NO BRUSH MARKS—DRIES IN 30 MINUTES...
SPEED-DRY ENAMELS are AURORA'S REVOLUTIONARY NEW ENAMEL PAINTS developed after years of research especially for Plastic Models and other products of Wood, Metal, Glass or China.



Aurora International
Made by Aurora Plastics Nederland N.V.
Nijkerk

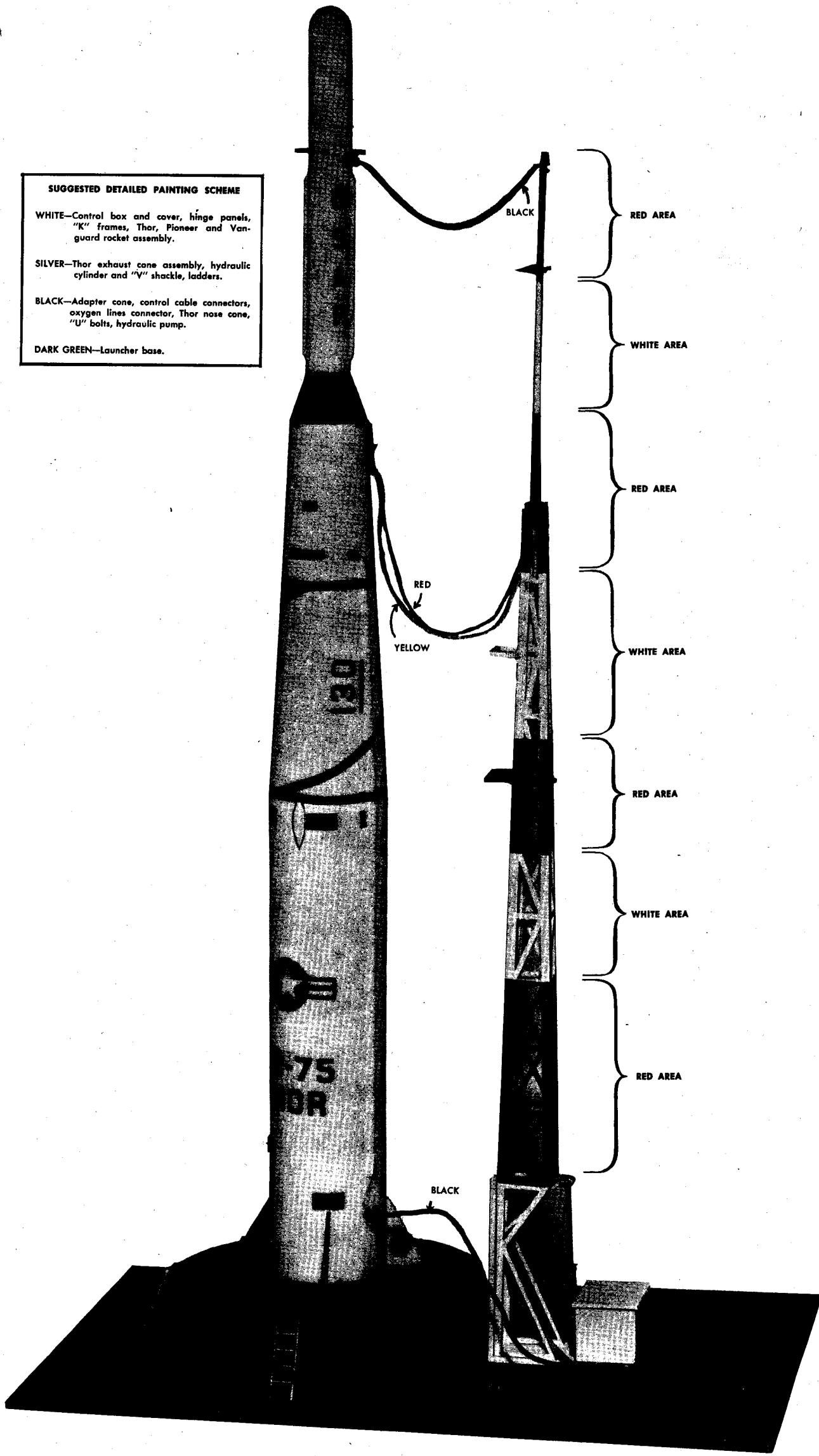
SUGGESTED DETAILED PAINTING SCHEME

WHITE—Control box and cover, hinge panels, "K" frames, Thor, Pioneer and Vanguard rocket assembly.

SILVER—Thor exhaust cone assembly, hydraulic cylinder and "V" shackle, ladders.

BLACK—Adapter cone, control cable connectors, oxygen lines connector, Thor nose cone, "U" bolts, hydraulic pump.

DARK GREEN—Launcher base.



A Complete List of AURORA Scale Model Kits

FAMOUS FIGHTERS OF WORLD WAR I

DeHaviland Tiger Moth
French Nieuport
Sopwith Camel
British Scout SE-5
German Albatross D-3
Fokker DR-1 Triplane
Fokker D-7
Spad 13
Nieuport 28
Plais D-3
DeHaviland DH-4
F2B "Brisfit"
JN-4 "Jenny"
DeHaviland DH-10 Bomber
Gotha Bomber

FAMOUS FIGHTERS OF WORLD WAR II

P-38 Lockheed Lightning
P-51 Mustang
Curtiss P-40
Hellcat
AT-6 Texan
SNJ Navy Trainer
B-17 Flying Fortress
British Spitfire
ME-109 Messerschmitt
Japanese Zero
Russian Mig-19
Focke-Wulf

MODERN DAY FIGHTERS

F8U-1 Crusader
B-47 Stratojet
Douglas F4D "Skyray"
Grumman F9F "Cougar"
B-52 Stratofortress
Convair F102 "Dart"
Lockheed F-104 "Starfighter"
F-100 Super Sabre
B-36 Convair Bomber
F-90 Lockheed
F9F Panther Jet
F-94C "Starfire"
F8D Sabre Jet
Convair V.R. "Pogo"
Lockheed VTO
Vertijet with Platform Trailer
F-101 Voodoo
North American F-107A
F-105 Thunderchief
Avro Arrow CF105

WORLD'S FIRST MANNED SPACE SHIP

X-15 Sateloid Rocket Plane

GIANT BOMBERS

B-26 Martin "Marauder"
B-29 Superfortress
B-25 Mitchell Bomber
PBV "Catalina"
B-58 Hustler
Russian Nuclear Bomber

WHIRLYBIRDS

Plasecki H-25A "Army Mule"
Kaman Hok "Egg Beater"
Hitler Harnet "Rom Jet"
Sikorsky S-55 "Windmill"
Plasecki H-21 "Work Horse"

POPULAR PLANES OF THE 1930's

Boeing P-26A
Boeing P-12E
Boeing F4B
Curtiss "Hawk" P6E
Curtiss SBCE "Helldiver"
A-2 "Mail Plane"

SUPER MODERN JET AIR LINERS

Pan American Boeing 707
TWA Boeing 707
TU104 Russian Jet

AMERICA'S NEWS-MAKING MISSILES

Mace TM76
Bomarc 1M99
Bomarc 1M99 with Launcher
Nike Hercules
Regulus II
Regulus II with Launcher
IRBM-Thor
Lunar Probe

4 AIDS FOR BETTER MODELS

FAMOUS WARSHIPS

Pocket Battleship Graf Spee
Battleship U.S.S. Iowa
Destroyer U.S.S. Halford
Carrier U.S.S. Saratoga
Destroyer U.S.S. Bennion
Cruiser U.S.S. St. Paul
Carrier U.S.S. Forrestal
Submarine U.S.S. Sea Wolf
Atomic Submarine S.S.N. Nautilus
"Q" Ship Atlantis—German Raider

FAMOUS SAILING SHIPS

Pirate Ship Black Falcon
Chinese Junk
Viking Ship
Blue Nose Schooner
Cutty Sark
Corsair

FAMOUS ARMY COMBAT UNITS

German "Panther" Tank
Russian "Stalin" Tank
"General Patton" Tank
U.S. Army 8" Howitzer
U.S. Army M8 Munitions Carrier
U.S. Army 155 MM "Long Tom"
U.S. Army 8" Howitzer with M8 Munitions Carrier

SCALE MODEL ARMY TRUCKS

U.S. Army Van Semi-Trailer
U.S. Army 5000-Gallon Gas Truck
U.S. Army 40-Ton Flat Bed Trailer with
Crawler Shovel

INDIANAPOLIS "500" WINNERS

The Monroe Car
Murphy Special
Bones Seal Fast Miller Special
Gilmore Speedway Special
Maserati
Fuel Injection Special

RACING SPORT CARS

The MG
The Jaguar
Ferrari 342 "America"
Ferrari Sportster
The Cunningham

FAMOUS RIFLES

Savage-99
Winchester-94
Mannlicher-Schoenauer

GUYS AND GALS OF ALL NATIONS

Dutch Boy
Dutch Girl
Mexican Caballero
Mexican Senorita
Chinese Mandarin
Chinese Girl
Indian Chief
Indian Squaw
Scotch Lad
Scotch Lassie

FAMOUS WARRIORS

Silver Knight of Augsburg
Blue Knight of Milan
Black Knight of Nurnberg
Red Knight of Vienna
Gold Knight on Horse

U.S. Air Force Pilot
"U.S. Sailor"
U.S. Army Infantryman
U.S. Marine
Athos (of The Three Musketeers)
Porthos (of The Three Musketeers)
Aramis (of The Three Musketeers)
The Viking
The Crusader
U.S. Marshal
Gladiator with Sword
Gladiator with Trident
Black Fury
Apache Warrior on Horse
Confederate Raider on Horse

ELECTRONIC MODEL KITS

1 Tube Radio Kit
Twin Signal Set
Inter-Com Telephone Set
Double Head Set
Fixed Crystal Radio Kit
2 Transistor Radio Kit
2 Tube Radio Kit
1 Tube Radio Kit
2 Tube Portable Radio Kit

HO ACCESSORIES

Trains
Colonial House
Ranch House
Railroad Station
Church
School House

GIFT PACKAGES

U.S. Navy Task Force
3 Giant Bombers
History in Miniature
3 Army Tanks
The Three Musketeers
3 Knights in Armor
2 Gladiators
Totem Craft (3 Pole Set)
Totem Craft (4 Pole Set)
Other Available Gift Sets Listed

RUBBER-BAND LAUNCHED AIRCRAFT

The Thunderhawk
The "Zoomjet"

COPPERSMITH COLLECTION

King of the Beasts
Bucking Bronco
Chief White Feather
Ballerina
Pirate Captain
Madonna
Flower Spray
Elephant
Clown
Liberty Bell
American Flag
Statue of Liberty
Horse's Head
Hands in Prayer
Buffalo Hunt
Venetian Gondola
Painter
Kittens
Mercer Raceabout
Sea Life
Bouquet of Flowers
Wild Deer
Crest of Christian Faith
Modern Fish
Haiti Woman
Haiti Man
Colonial Lady
Colonial Man
Venus
Flying Geese
Roman Gladiator
Oriental Beauty
Oriental Man
Clipper Ship
Hawaiian Eve
Vase of Roses
Indian Warrior

SUPER MODERN JET AIRLINERS



KIT NO. 381 PAN AM BOEING 707

This is America's first and excitingly new jet luxury airliner. Flying 145 passengers at altitudes of 25,000 to 40,000 feet, cruising at speeds up to 700 MPH, it can fly from New York to London in just 6 hours! 15" long with a wingspan of 15". **\$1.98**

KIT NO. 382 TWA BOEING 707

Yes, a fascinating new era in commercial air travel has been born and, to celebrate this historic event, Aurora has reproduced this model of the famous TWA Boeing 707 in thrilling, life-like detail. The model is 15" long, with a 15" wingspan. **\$1.98**

KIT NO. 127 TU-104 RUSSIAN AIRLINER

This is the famous Russian Jet Commercial Airliner that was displayed to the Free World for the first time in London in 1956. It has twin engines, carries a crew of 5 and accommodates up to 70 passengers. The TU-104 has a cruising speed of 500 MPH, and a range of over 2,000 miles. It was designed from Russia's medium bomber—"The Badger"—and is a leading competitor with the West's new jet airliners such as the famous Boeing 707. Although the TU-104 is Russian made, Aurora has been able to get these plans, and produce this true scale model of the original. 11" long, 10 1/2" wingspan.