

# INSTRUCTIONS FOR ASSEMBLING BOEING F4B-4

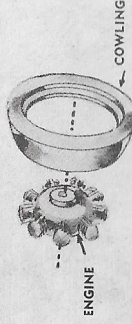
BEFORE ASSEMBLING MODEL, STUDY SKETCH CAREFULLY.

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.

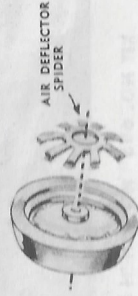
DO NOT HURRY. WORK CAREFULLY AND PATIENTLY.

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.



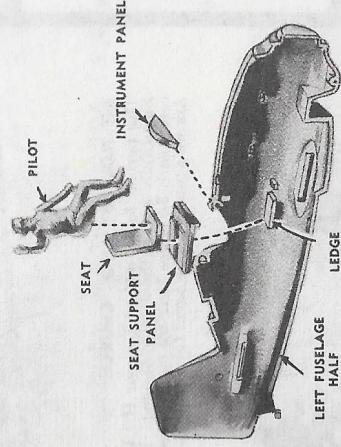
1. Cement ENGINE to inside of COWLING.



2. Cement AIR DEFLECTOR SPIDER to front of ENGINE.

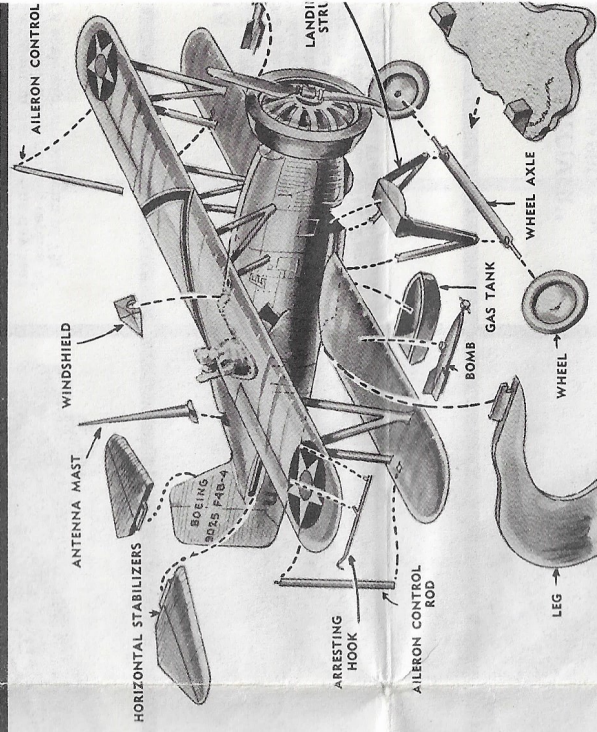
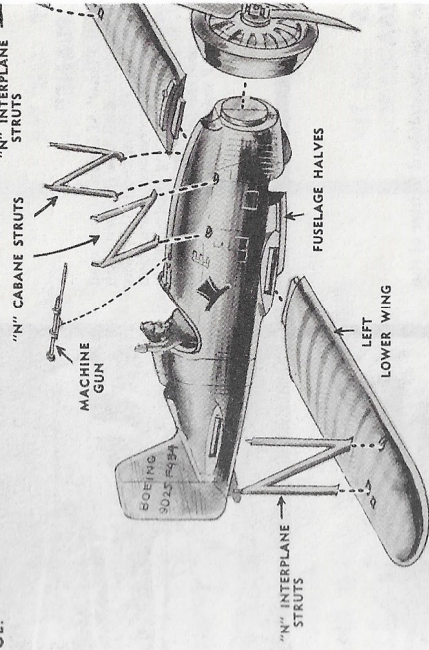


3. Insert PROPELLER SHAFT through hole in ENGINE from inside of COWLING and cement PROPELLER to PROPELLER SHAFT.



4. Cement SEAT to SEAT SUPPORT PANEL.
5. Cement PILOT to SEAT.
6. Locate and cement PILOT and SEAT ASSEMBLY onto LEDGE in LEFT FUSELAGE HALF.
7. Locate and cement INSTRUMENT PANEL at front end of COCKPIT in LEFT FUSELAGE HALF.

8. Cement FUSELAGE HALVES together.
9. Cement PROPELLER and ENGINE COWLING ASSEMBLY to FUSELAGE.
10. Cement MACHINE GUN to FUSELAGE in FRONT of COCKPIT.
11. Cement LEFT and RIGHT LOWER WINGS to FUSELAGE.



25. Cement MECHANIC to WHEEL GROUND PANEL.

26. Cut out sections of DEC with markings on MODEL DIRECTIONS on back of applying. Allow to dry handling.

15. Cement ALERON CONTROL RODS between ALERONS and LOWER WING.

16. Cement LEFT and RIGHT HORIZONTAL STABILIZERS to FUSELAGE.

17. Cement LANDING GEAR STRUTS to slot in underside of FUSELAGE.

18. Cement WHEEL AXLE to LANDING GEAR STRUTS.

19. Cement WHEELS to AXLE.

20. Locate and cement GAS TANK to UNDERSIDE of FUSELAGE.

21. Cement BOMBS to UNDERSIDE of LOWER WING.

22. Cement ARRESTING HOOK to underside of FUSELAGE.

23. Cement ANTENNA MAST to TOP of FUSELAGE.

24. Cement WINDSHIELD to FRONT END of COCKPIT.

SILVER—Underside

YELLOW—Top of Wings

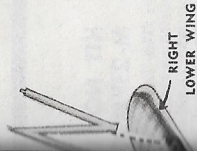
GREEN—Vertical Stabilizer Rudder



BLACK—

"N" CABANE

STRUTS to LOWER



### History of the Boeing F4B-4 "Fighter"

The first model of the famous Boeing F4B-4 "Fighter" made its maiden flight in 1932. Although essentially a first World War design, it was considerably revised and much safer than the earlier models. The F4B-4, F4B-32, and P1ZE were similar to each other with differences in tailplane, headrest, and cowling details. These speedy ships were used by the U. S. Army, Navy, and Marines. The Navy version was often flown from carriers, but was hampered by a very limited range.

The Boeing F4B-4 was powered by the Pratt & Whitney 500 h. p. "Wasp", 9 cylinder air cooled, single bank engine. The weight of the engine was 730 pounds and used 80 octane fuel.

Armament consisted of two .30 caliber Browning synchronized machine guns, or one .30 caliber Browning and one .50 caliber Browning. This plane could also handle two 116 pound demolition bombs or 8 25 pound fragmentation bombs.

Manufactured by the Boeing Airplane Company, the following specifications applied to the prototype model 256:

- Single-seat high performance fighter.
- Top wing span is 30 feet.
- Lower wing span is 26 feet, 4 inches.
- Overall length is 20 feet, 4 1/17 inches.
- Height measured 9 feet, 9 3/32 inches.
- Wing area has 227.5 square feet.
- Empty weight is 2,501.2 pounds.
- Loaded weight is 5,015.5 pounds.
- Disposable load is 714.3 pounds.
- Wing loading is 13.25 pounds per square foot.

Power loading is 6.03 pounds per h. p. The wings are constructed of one upper panel and two lower panels. There are duraluminum tubing struts at the center section and one "N" type interplane strut on either side of the fuselage. Wing structure is of box construction with spruce flanges and two-ply mahogany webs. The wing ribs of wood and the wing panels are fabric covered. Located in the upper wing is emergency flotation gear.

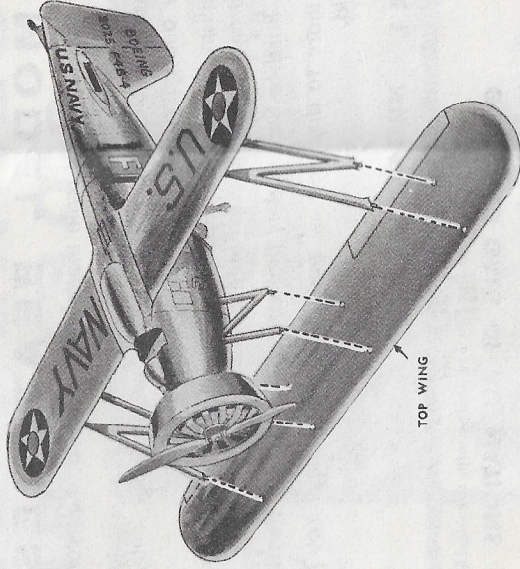
Forward of the front lower wing spars, the main fuselage is of welded chrome-molydenum steel tubing, metal cowlid. Aft fuselage is duraluminum semi-monocoque construction. The engine mounting is detachable and is constructed of welded chrome-molydenum tubing.

The metal constructed, monoplane type tail is covered with corrugated duraluminum sheet. The fin is adjustable on the ground, while the tailplane is adjustable in flight. Balanced elevators are used.

The undercarriage consisted of a straight axle type landing gear, with oleo shock absorbers and brakes. The side loads are absorbed by a "Y" truss from the center of the axle to the body. A steerable tail wheel is equipped with oleo shock absorber. It may be noted how all struts are faired into the wings and fuselage.

The F4B-4 is very colorful, with a red or green cowling, grey fuselage, green tail assembly, both wings silver on underside and chrome yellow on topside with a red chevron, topped off with grey struts, and a white trimmed red stripe around the fuselage just aft of the cockpit. Decals furnish the remaining color markings.

14. Cement TOP WING to STRUTS as follows: Place TOP WING upside down on work table and apply a very small drop of cement to each of the holes in TOP WING, and while holding the FUSELAGE upside down, carefully insert, one at a time, pegs on ends of STRUTS into corresponding holes in TOP WING.



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Suggested Detail Painting Scheme  
BROWN—Pilot's and Mechanic's Suits  
Propeller

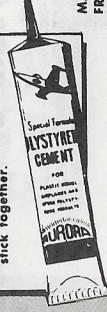
BLACK—Engine

RED—Cowl

GREEN—Ground Panel

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

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



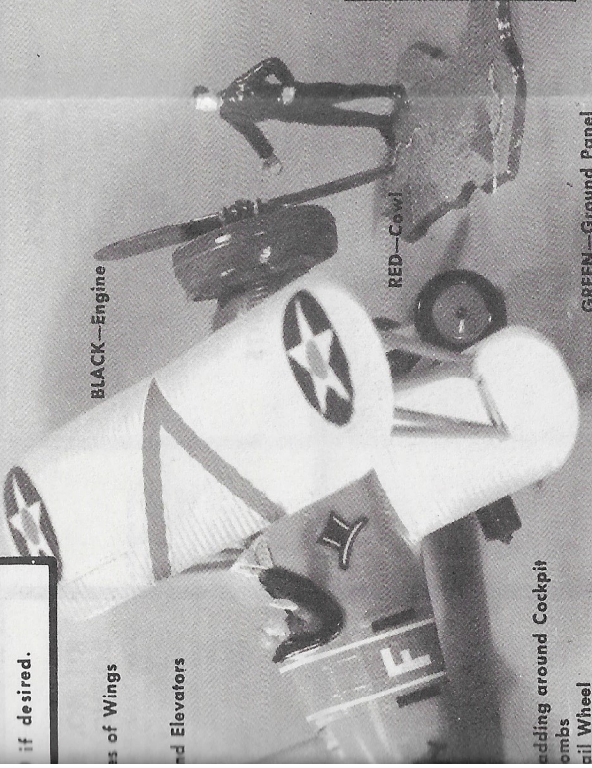
THIS CEMENT MAY BE PURCHASED FROM YOUR DEALER!



Every effort has been made to insure the completeness of this Kit—however, should any part be missing, write directly to:

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Wings

Elevators

Cockpit  
Wheel

Ground Panel



# PO O

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### KIT NO. 11 M-2 "MAIL"

The Douglas "C" to as the "Gran speed mail ships flying in all kind that has become the delivery of 1 captured in the Length 7". Mod

### FAMOUS FIGHTERS OF WORLD WAR I

French Nieuport  
Sopwith Camel  
British Scout SE-5  
German Albatross D-3  
Fokker DRI Triplane  
Fokker D-7  
Spad 13  
Nieuport 28  
Pfalz D-3  
DeHavilland DH-4  
F2B "Brisfit"  
JN-4 "Jenny"  
DeHavilland DH-10 Bomber  
Gotha Bomber

### MILITARY VEHICLES

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

### GUYS AND GALS OF ALL NATIONS

Dutch Boy  
Dutch Girl  
Chinese Mandarin  
Chinese Girl  
Indian Chief  
Indian Squaw  
Scotch Lad  
Scotch Lassie

### KIT NO. 11 BOEING P-2

The Boeing P-24 Army Air Force best plane of its features of a structure of a six planes. The Air the original with Length 7".

### FAMOUS FIGHTERS OF WORLD WAR II

B-17 Flying Fortress  
British Spitfire  
Focke Wolf  
P-40 Flying Tiger  
ME 109 Messerschmitt  
AT-6 "Texan"  
SNJ Navy Trainer  
Jap Zero  
Hellcat  
Russian Mig 19  
P-51 "Mustang"  
P38 Lockheed Lightning

### MODERN DAY FIGHTERS

Convair F102 "Dart"  
Lockheed F104 "Starfighter"  
Douglas F4D "Skyray"  
Grumman F9F "Cougard"  
F-94C Starfire  
F-100 Super Sabre  
B-36 Bomber  
B-47 Stratojet  
B-52 Stratofortress  
F9F Panther Jet  
Lockheed VTO  
F86D Sabre Jet  
F90 Lockheed  
Convair V.R.  
F8U "Crusader"

### GIANT BOMBERS

B24 "Catalina"  
B26 "Martin" "Marauder"  
B-29 "Superfortress"  
B25 "Mitchell" Bomber

### WHIRLYBIRDS

Prasecki H-25A "Army Mule"  
Kaman Hok "Egg Beater"  
Hiller Hornet "Ram Jet"  
Sikorsky S-55 "Windmill"  
Prasecki H-21 "Work Horse"

### POPULAR PLANES OF THE 1930's

Boeing P-26A  
Curtiss P-6E  
Curtiss SBC3 "Helldiver"  
M-2 "Mail Plane"  
Boeing P12E  
Boeing F4B4

### U.S. NAVY WARSHIPS

Destroyer Bennion  
Cruiser St. Paul  
Atomic Sub. SSN Sea Wolf  
Destroyer USS Halford  
Battleship Iowa  
Carrier USS Forrestal  
Carrier USS Saratoga

### HISTORIC SAILING SHIPS

Pirate Ship Black Falcon  
Viking Ship  
Chinese Junk  
Blue Nose Schooner

### FAMOUS TANKS

Patton Tank  
Panther Tank  
Stalin Tank

### KIT NO. 1 CURTISS "I

The P6E, was 1 famous "Hawk Corporation. T chief pre-war s defense. The 1 Aurora model Squadron base Wingspan 8 5/8 "

### KIT NO. 1 CURTISS SE

As the code left nated as a two 1 425 HP Pratt ability to dive gave. this plan through the SBC era. more "Hell proved thermal Aurora model h

### KIT NO. 1; BOEING P1

For the Air For only one plane P12E. Here wa time and almost used them. The plane back with original. Scale 5 1/4 " in length.

### KIT NO. 1; BOEING F4

The very famo fighter of the o in the early 30 World War II model features that you'll find Aurora tradem

### COPPERSMITH COLLECTION

King of the Beasts  
Bucking Bronco  
Chief White Feather  
Ballerina  
Pirate Captain  
Madonna  
Flower Spray  
Elephant

Cloven  
Liberty Bell  
American Flag  
Buffalo Hunt  
Venetian Gondola  
Wild Deer  
Sea Life  
Colonial Lady  
Colonial Man  
Haiti Lady  
Haiti Man  
Mercer Raceabout  
Bouquet of Flowers  
Venus  
Modern Fish  
Painter  
Kittens  
Flying Geese  
Roman Gladiator  
Oriental Beauty  
Oriental Man  
Clipper Ship  
Hawaiian Eve  
Vase of Roses  
Indian Warrior

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4 Famous Fighters  
3 Army Tanks  
3 Famous Fighters  
3 Knights in Armor  
2 American Fighters

### TOTEM CRAFT

### ELECTRONIC MODEL KITS

Crystal Radio Kit  
Fixed Crystal Radio Kit  
2 Transistor Radio Kit  
2 Tube Portable Radio Kit  
1 Tube Radio Kit  
2 Tube Radio Kit  
Twin Signal Set  
Single Signal Set  
Intecom Telephone Set  
Head Set  
Single Head Phone

### HO ACCESSORIES

Trees  
Colonial House  
Ranch House  
P.R. Station  
Church House  
School House

# PULPAR PLANES OF THE 1930'S

## 1 PLANE"

Mail Plane" M-2 can be referred to as the "mail-daddy" of all the modern high speed planes of today. This rugged little plane is of weather created a tradition in standard operating procedure in the U. S. Airmail. Superior realism is in the Aurora model. Wingspan 9 3/4". Molded in 2 colors.



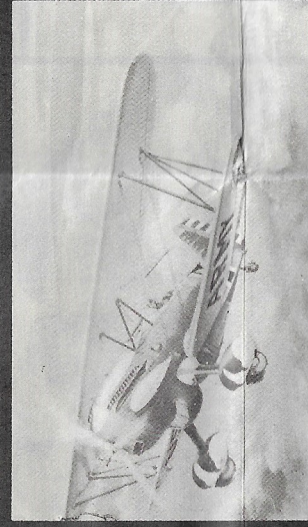
## 5 26A

A was the standard fighter of the 1930's and was considered the best type in the world. The unique design of low wing and all metal construction is evident in our present day war plane version is a perfect replica of the original. Wingspan 7 3/4". Molded in 2 colors.



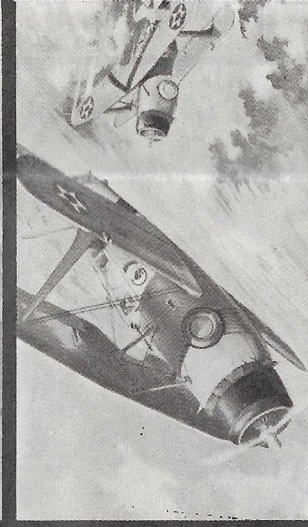
## 6 "HAWK" P6E

The last production model of the Curtiss design of the Curtiss Wright fighter plane was one of the best aircraft to be used in America's defense. It is the famous 17th Pursuit Squadron at Selfridge Field, Michigan. Length 6 7/8".



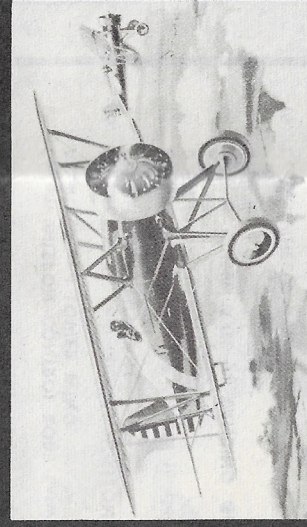
## 7 C 3 "HELLDIVER"

As the name indicates, the SBC-3 was designed as a scout bomber. Powered by a Curtiss and Whitney Wasp Engine, its unique configuration with a bomb load soon earned it its name, "Helldiver." Even today, the SBC-3 was adequate for the pre-war era. Versions were designed and produced during World War II. The Aurora model has 9 1/2" wingspan, 7 1/2" in length.



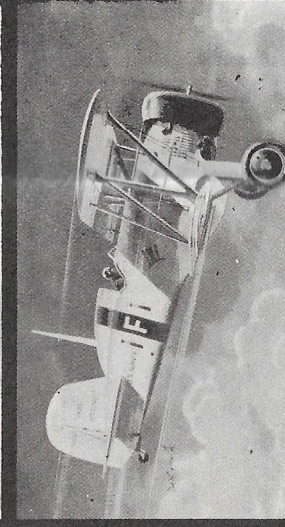
## 8 2E

The pilots of the early 30's there was a need for a plane that they wanted to fly... the Boeing Stearman was the hottest pursuit plane of its era. The Aurora model brings this exciting biplane to life. All the detailed features of the Aurora model has 7 1/2" wingspan and is 6 1/2" in length.



## 9 B4

The Boeing F4B4 was a first line fighter. It was the first of its type to be built in Europe. The scale of the model is the same high quality and realism as every other kit that bears the famous Aurora name. Wingspan 7 1/2". Length 5 1/4".

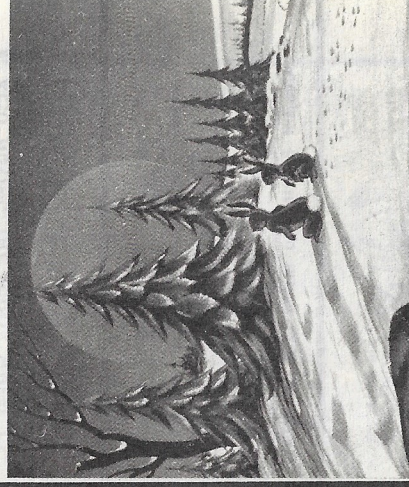


FOR THE MODEL  
RAILROADER . . .



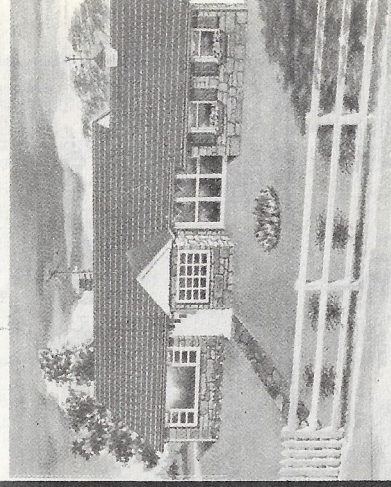
## KIT NO. 651 HO TREES

Add beautiful scenic effect to your HO layout with Aurora's realistic trees. Easy to assemble, you can make your tree to whatever height you desire. Kit contains material for 8 average size trees. Molded in 2 colors.



## KIT NO. 653 HO RANCH HOUSE

Give your railroad that realistic look with the popular Ranch House that is found all over America. Aurora's two color HO Gauge model is authentically designed and easily assembled with 65 pieces in kit.



## KIT NO. 655 HO CHURCH

The perfect touch add to your HO layout. Beautifully and authentically designed in two colors with 34 pieces that are easily assembled. Aurora's model is of a small town church.

