

There are several notes I need to provide to aid you with the enclosed package. The original kits used 1/16" balsa. Since I wanted to print these directly on balsa sheet I developed the parts for 1/32" balsa sheet. My printer will handle up to 1/20" sheet, but I find 1/32" is a little easier to handle in the printer. As a result, some of the parts have been drawn to allow for cross grain laminations. The fuselage formers are a good example. The fin as also been drawn with a mirror image to allow for markings on both sides. This works fine as long as you are using 1/32" sheet stock.

I like to use a removable nose for winding. The parts have been drawn with this in mind. The nose former has been drawn so a removable nose plug can be used. A colored nose plug has also been drawn. For the P-51, you need a thick nose plug to get the thrust bearing in the proper location for the prop and spinner. Back the colored nose piece with cross grained laminations provided in the drawings. Use enough laminations to allow the prop to clear the fuselage. This assembly will then plug into the opening formed by the fuselage structure. I like to use a Peck thrust bearing for 1/32" prop shafts in the removable nose plug.

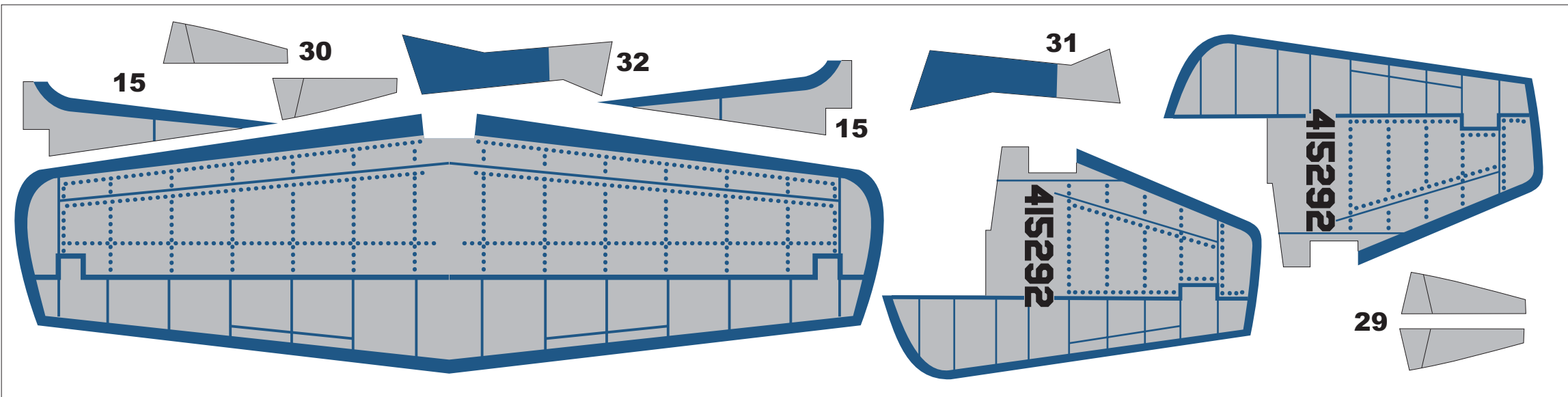
When using 1/32" sheet for the fuselage sides, I was concerned about the load of a fully wound motor on the rear motor peg. I like to use a piece of 3/32" aluminum tubing for the rear peg. Makes holding the model in a winding stooge very easy. To create a bit more strength at the rear peg, I apply a 3/8" diameter disk of 1/64" plywood to the inside of each fuselage side at the peg location. This has proven to be plenty strong for a fully wound motor of 1/8" Tan II rubber. A piece of 3/32" OD aluminum tubing is used for the rear motor peg.

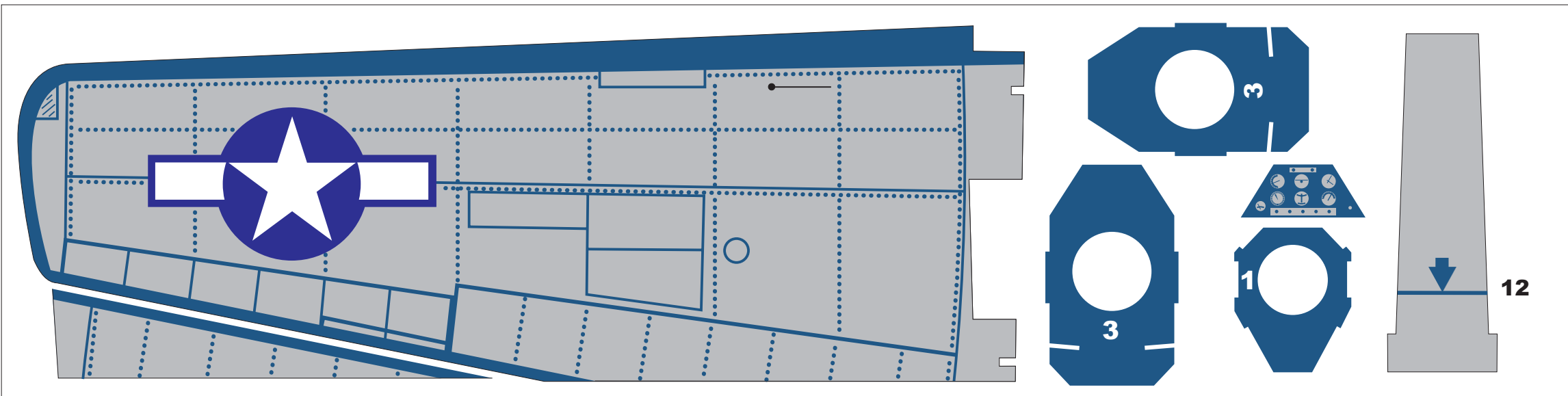
The landing gear parts for the P-51 have been drawn per the original kit. Mirrored parts have also been drawn to allow sandwiching the landing gear legs between the 1/32" balsa parts. This makes a nicer looking installation and is quite strong. The location of the gear legs has been printed on each wing panel. You will see a line with a circle on one end. Push the landing gear wire through the printed circle. The bent wire will line up with the printed line.

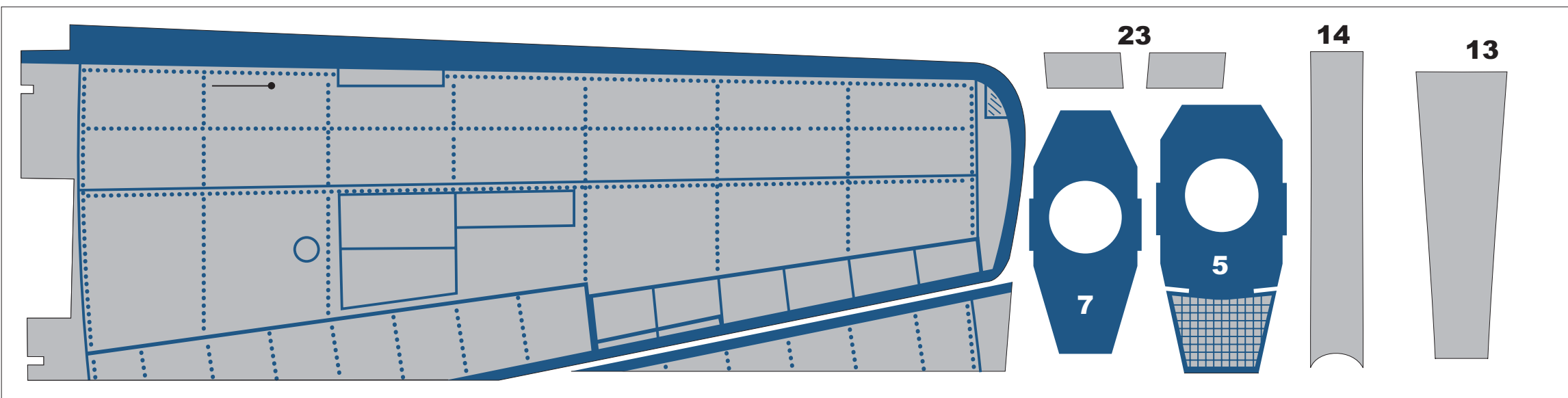
The original kits came with a vacuum canopy and an injection molded spinner. A drawing has been provided that will allow you to develop forms for making your own vacuum formed parts. The original kit spinner came in red plastic.

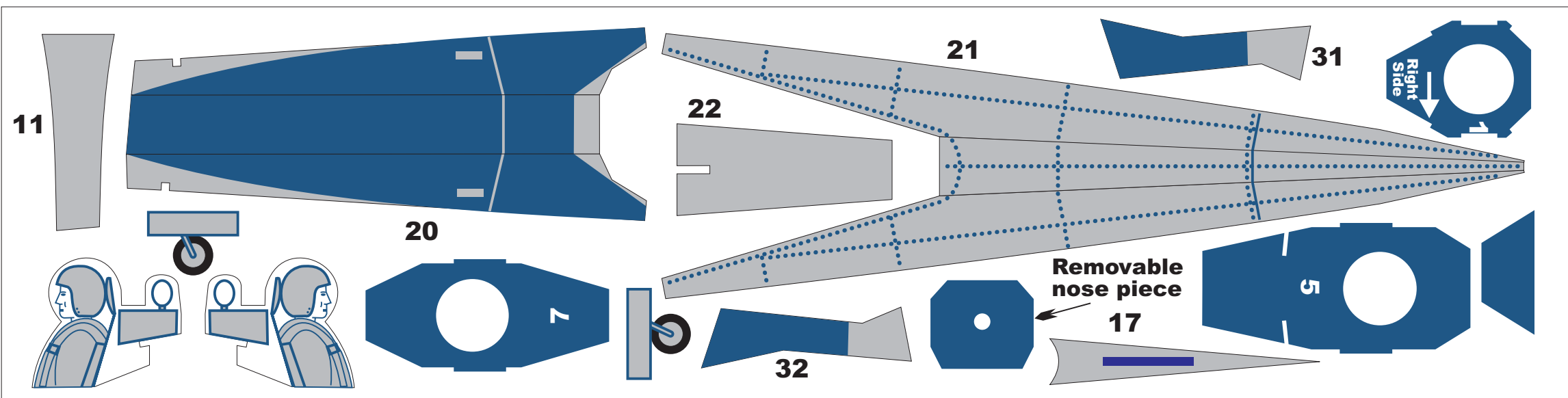
I do hope you build and enjoy a model from this plan package.

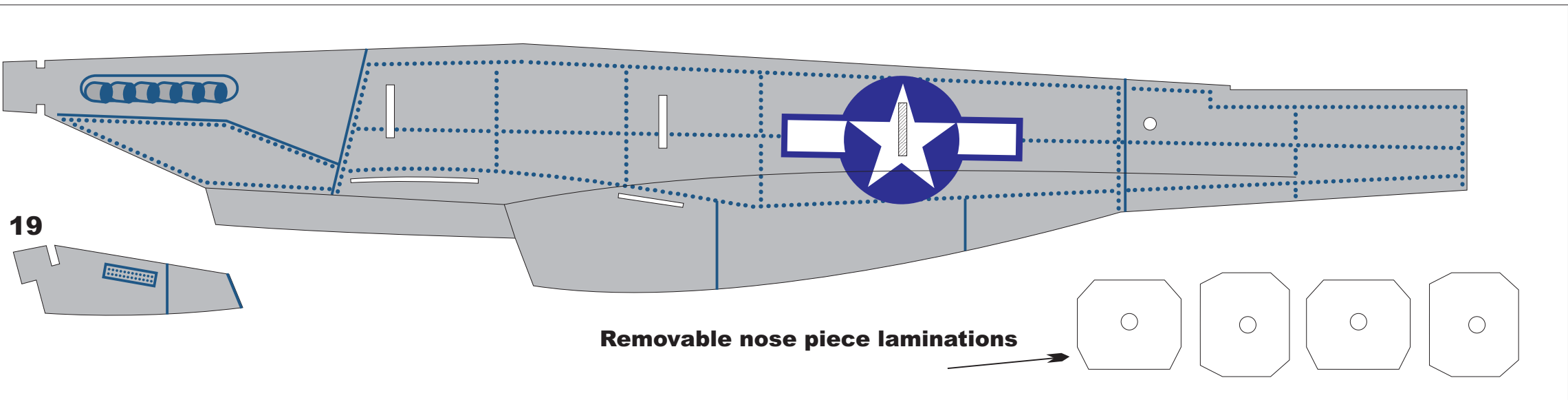
Paul Bradley

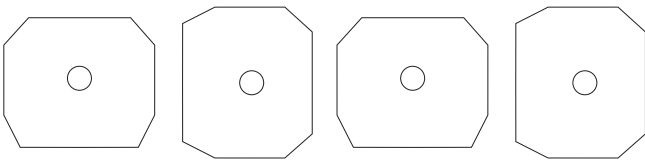
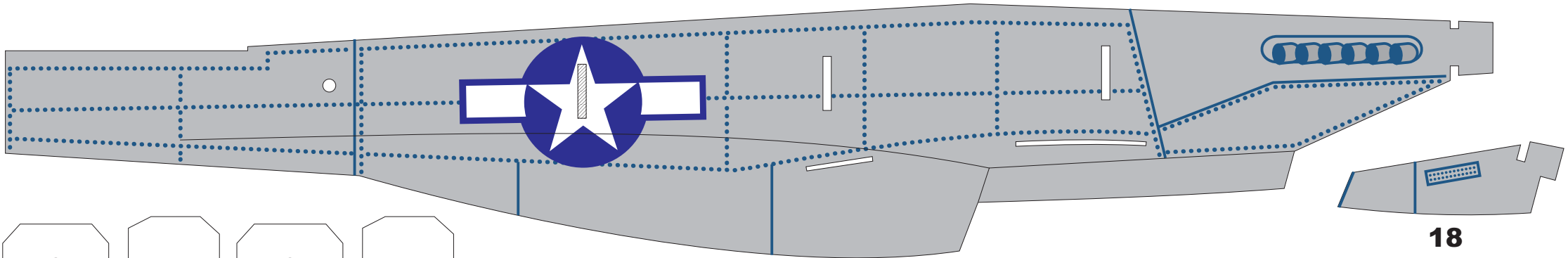












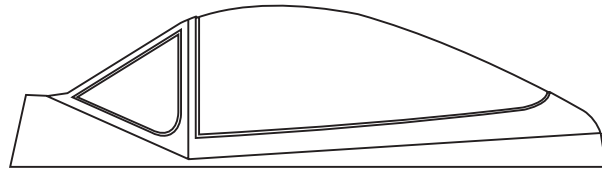
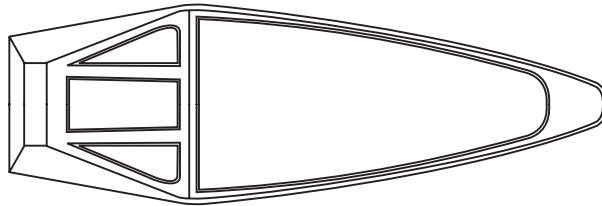
**Removable nose piece laminations**

**Note: Right side nose is slightly shorter to create right thrust**

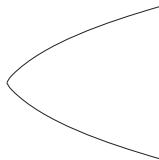
**18**



**Landing Gear Pattern - Make 2  
from .025 music wire. Use two 3/4" Wheels**



**Canopy Form**

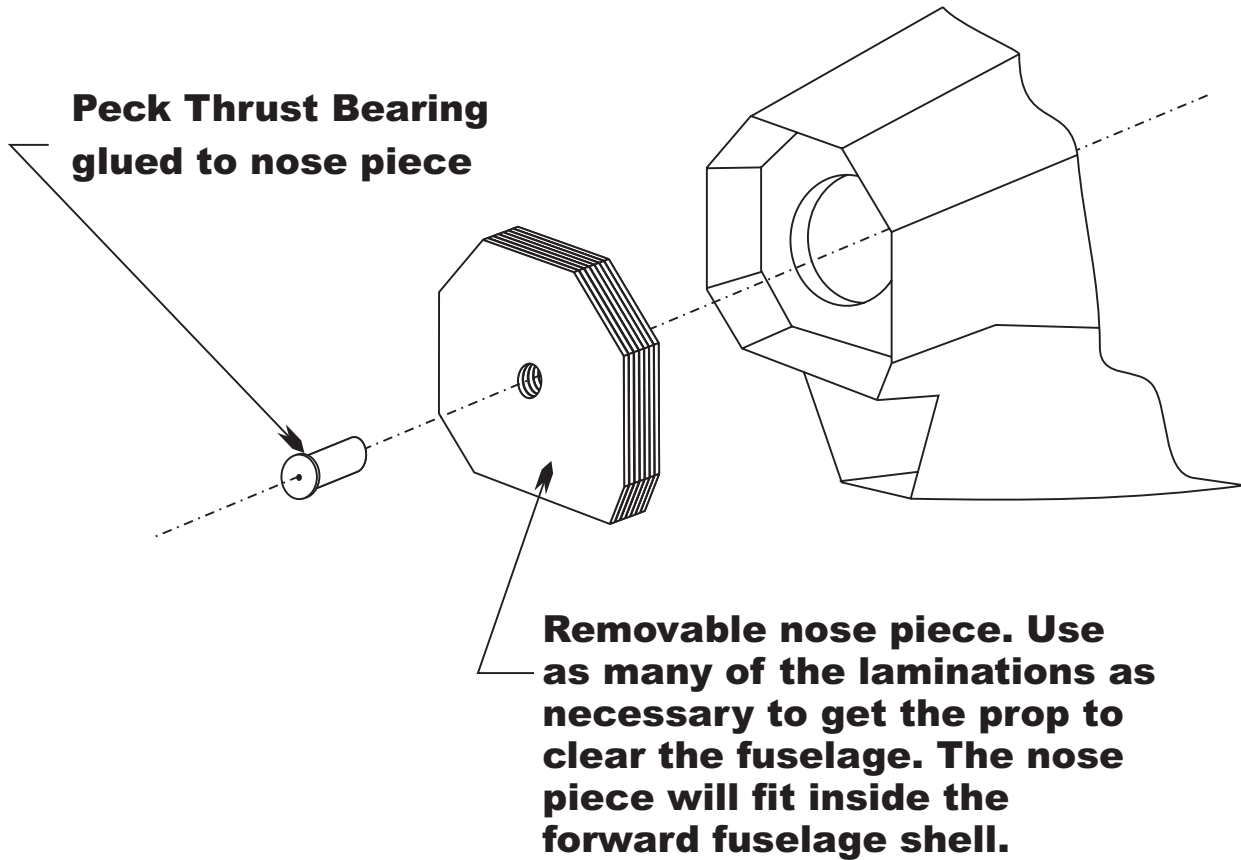


**Spinner**

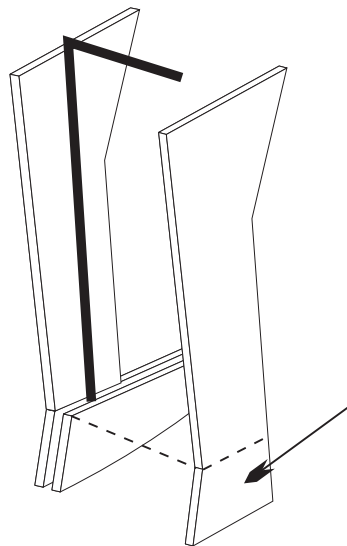
**P-51**



## **Modification to the nose to allow for a removable noise piece for stretch winding.**



## **Modification to the landing gear covers**

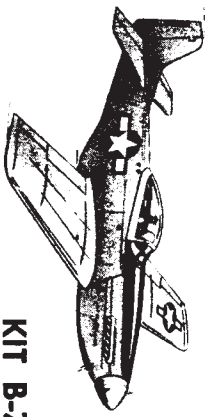


**Trim the covers here and sandwich them around the landing gear legs. This will give a cleaner looking landing gear assembly.**

# TOP FLITE

MODELS INC.

2695-45 SOUTH WABASH AVE., CHICAGO 16, ILL.



KIT B-7

## P-51 MUSTANG

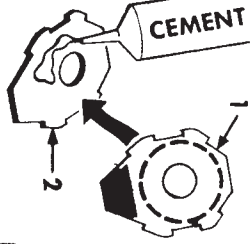
THIS MODEL IS GUARANTEED TO FLY WHEN BUILT AND FLOWN ACCORDING TO DIRECTIONS.

FOR A WELL-BUILT MODEL, FOLLOW

### 1 HANDY HINTS

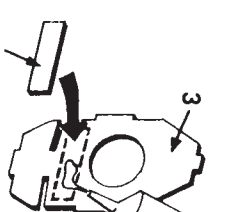
Use regular model airplane cement. Use enough to hold well, and wipe off extra cement. Use a paper towel or napkin to wipe cement off your fingers. Take parts out of sheets only when you need them. Put scrap in a separate pile. Be sure to teach your model to fly by following the instructions on "How To Fly."

CEMENT



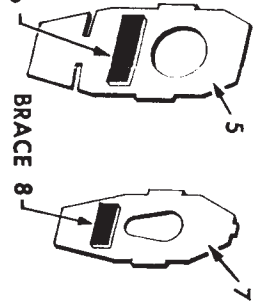
**2** Cement nose piece 1 to nose piece 2. Line up at sides, and let dry.

BRACE 4



**3** Cement braces across formers 3, 5, and 7 as shown.

BRACE 6

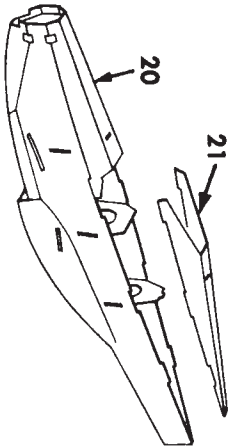


FUSELAGE SIDE 9 -

FORMER 3

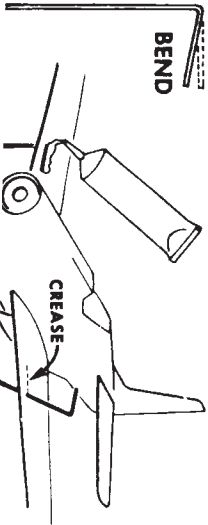


**4** Cement former sides 9 and 10 end of fuselage

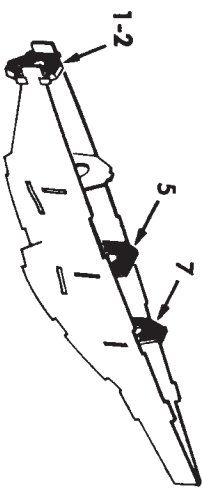


**10** Bend top pieces 20 and 21 along creases. Cement in place on fuselage.

BEND

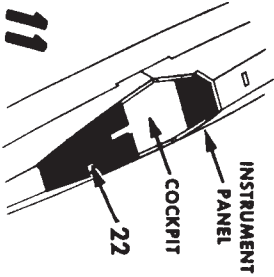


CREASE



**HANDY HINT:** Use small rubber bands to hold fuselage parts together while they dry.

**6** Cement formers 5 and 7, and nose piece 1-2 between fuselage sides.



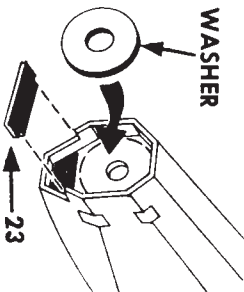
**11** Cement instrument panel and cockpit deck 22 into place.

INSTRUMENT PANEL

COCKPIT

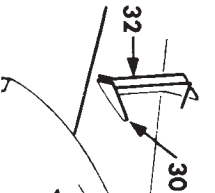
22

WASHER



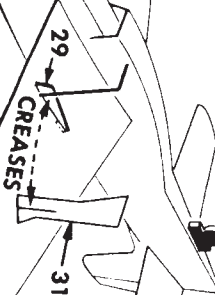
**12** Cement balance weight washer and piece 23 to nose as shown.

23



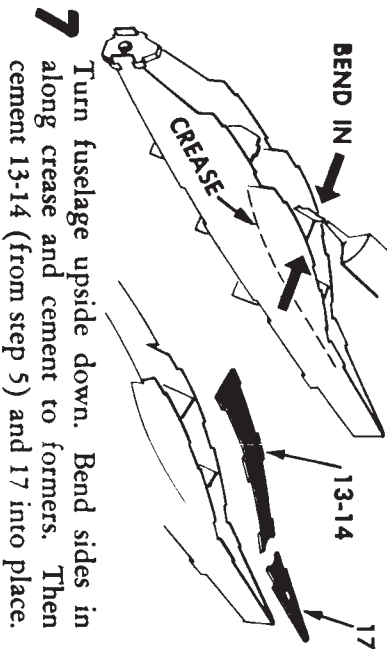
32

30



29

31



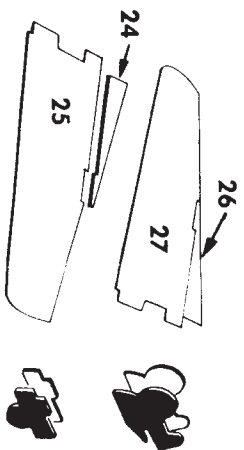
BEND IN

CREASE

13-14

17

**7** Turn fuselage upside down. Bend sides in along crease and cement to formers. Then cement 13-14 (from step 5) and 17 into place.



24

25

26

27

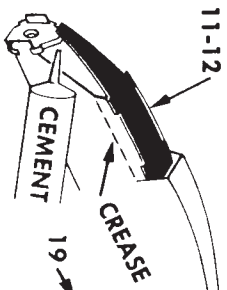
**13** Cement piece 24 to wing 25, piece 26 to wing 27. Cement pilot halves, and tail wheel halves.

TRIM OFF EXCESS



PILOT

EXHAUST STACKS



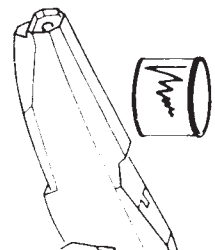
11-12

CREASE

CEMENT

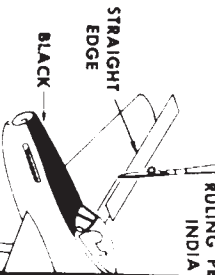
19

**8** Now bend in sides 11-12 in bottom 11-12 in side pieces 18 and



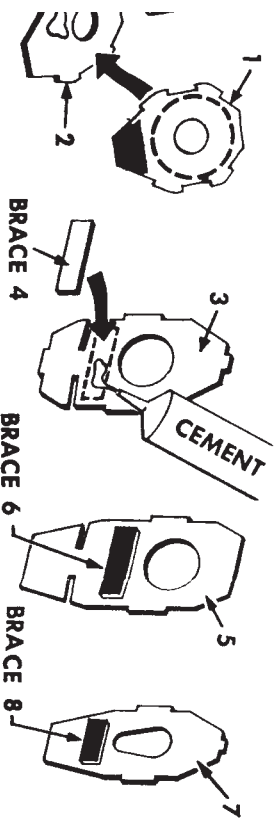
**14** Fill all cracks and sandpaper all pair

RULING PEN INDIA

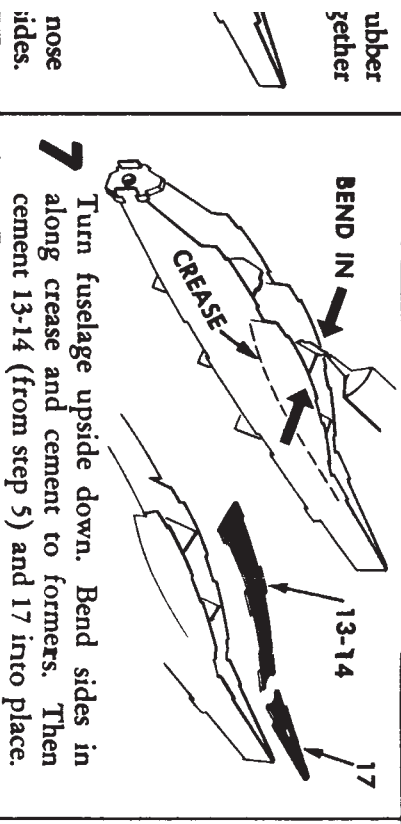


STRAIGHT EDGE BLACK

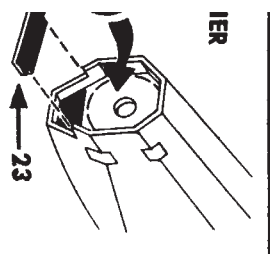
# A WELL-BUILT MODEL, FOLLOW THESE EASY STEPS!



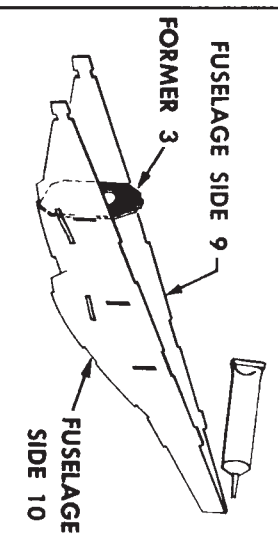
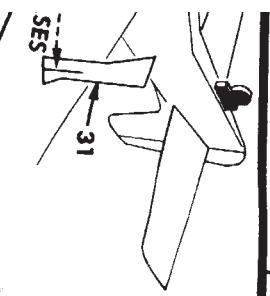
rubber  
together  
ment nose piece 1 to  
piece 2. Line up  
sides, and let dry.  
**3** Cement braces across formers  
3, 5, and 7 as shown.



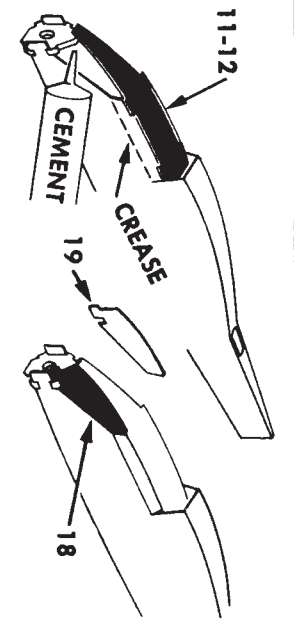
**7** Turn fuselage upside down. Bend sides in  
along crease and cement to formers. Then  
cement 13-14 (from step 5) and 17 into place.



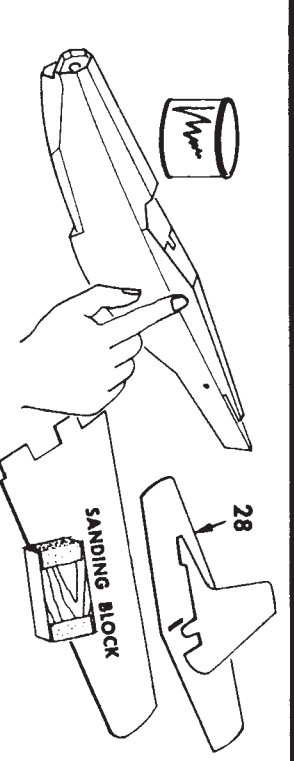
rudder  
ent balance weight  
er and piece 23 to  
as shown.



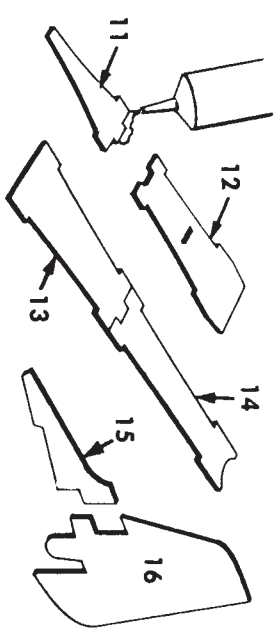
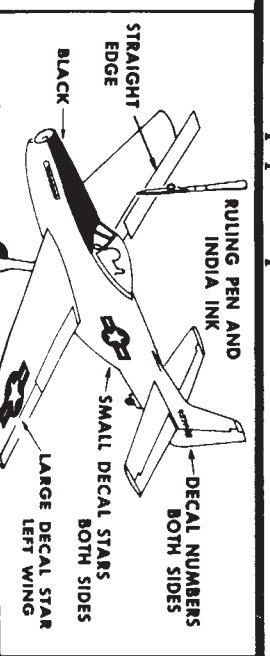
**4** Cement former 3 between fuselage  
sides 9 and 10. Then cement rear  
end of fuselage sides together.



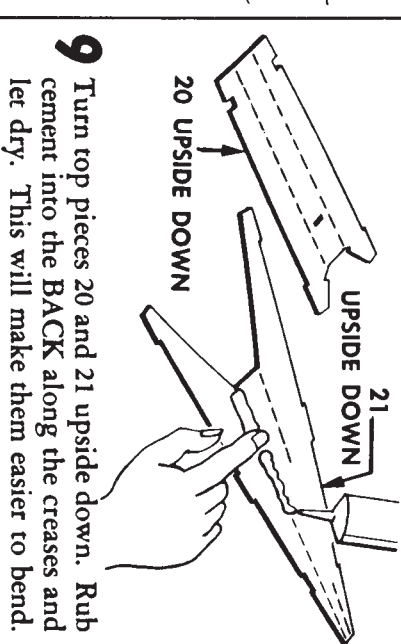
**8** Now bend in sides and cement nose  
bottom 11-12 in the same manner. Add  
side pieces 18 and 19 to complete nose.



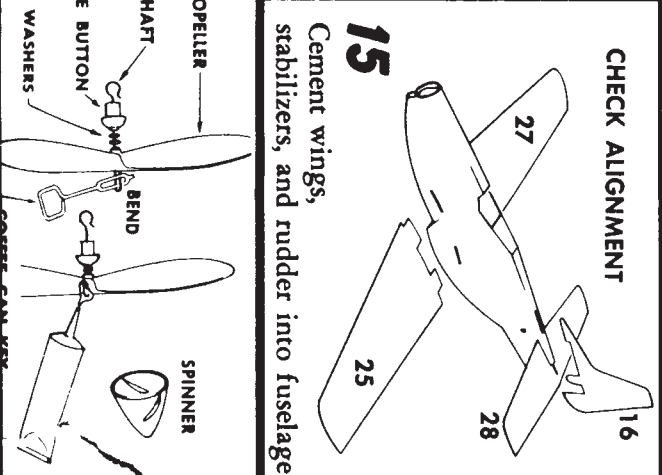
**14** Fill all cracks and seams with DURATITE SURFAC-  
ING PUTTY or PACTRA PLASTIC BALSA. Then  
sandpaper all parts.



**5** Cement together bottom nose pieces 11  
and 12, and bottom middle pieces 13  
and 14. Cement dorsal 15 to rudder 16.



**9** Turn top pieces 20 and 21 upside down. Rub  
cement into the BACK along the creases and  
let dry. This will make them easier to bend.



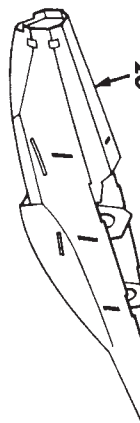
**15** Cement wings,  
stabilizers, and rudder into fuselage.



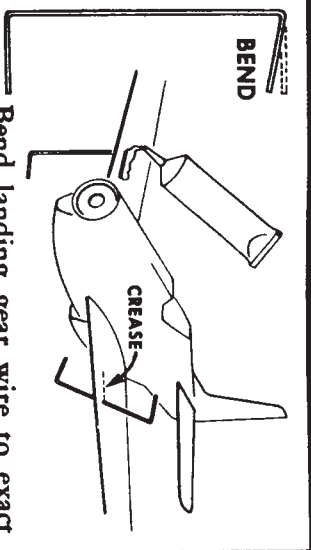
**13** Cement piece 24 to wing 25, piece  
26 to wing 27. Cement pilot halves,  
and tail wheel halves.



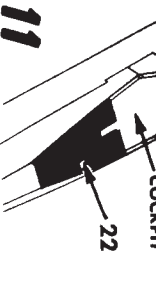
**18**



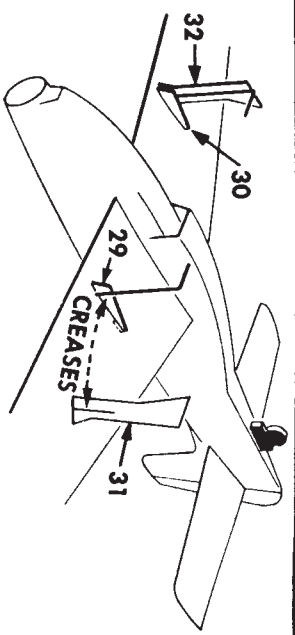
**10** Bend top pieces 20 and 21 along creases. Cement in place on fuselage.



**16** Bend landing gear wire to exact shape. See drawing. Push through wing and cement to upper surface.



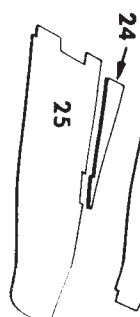
**11** Cement instrument panel and cockpit deck 22 into place.



**17** Cement brackets 29 and 30 to wing so that wire lies in the creases. Then add strut covers 31 and 32. Add tailwheel.



**12** Cement balance weight washer and piece 23 to nose as shown.



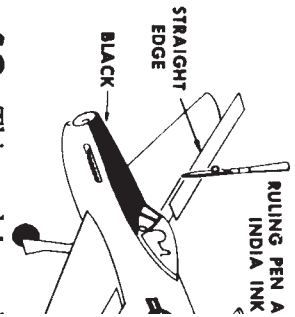
**13** Cement piece 24 to wing 25, piece 26 to wing 27. Cement pilot halves, and tail wheel halves.



**18** Cement pilot, canopy, and exhaust stacks into place. Hold wheels on with a drop of cement on the tip of each axle.

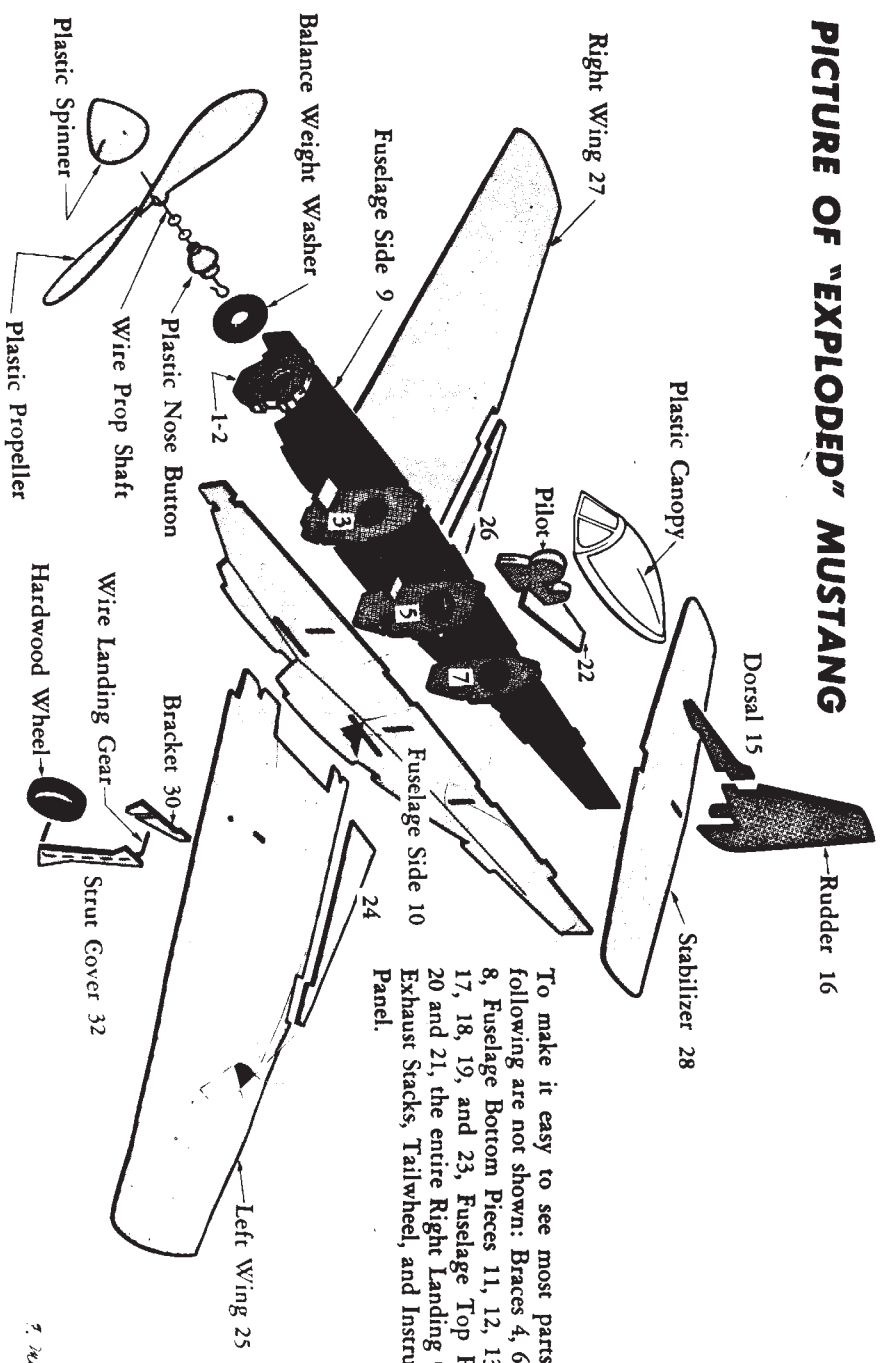


**14** Fill all cracks and seaming with PUTTY or PA sandpaper all parts.



**19** This model may be painted. Start with 2 coats silver. A

**PICTURE OF "EXPLODED" MUSTANG**



To make it easy to see most parts, the following are not shown: Braces 4, 6, and 8, Fuselage Bottom Pieces 11, 12, 13, 14, 17, 18, 19, and 23, Fuselage Top Pieces 20 and 21, the entire Right Landing Gear, Exhaust Stacks, Tailwheel, and Instrument Panel.

**21**

**HOW TO**  
Even little birds taught how to fly sure to teach you to fly by carefully following these suggestions.

**23**

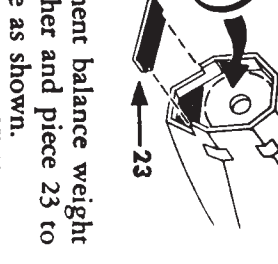
**BALANCE AT MARK**  
Balance model as shown, adding small weights bits of modeling clay) if needed to bring in

**24**

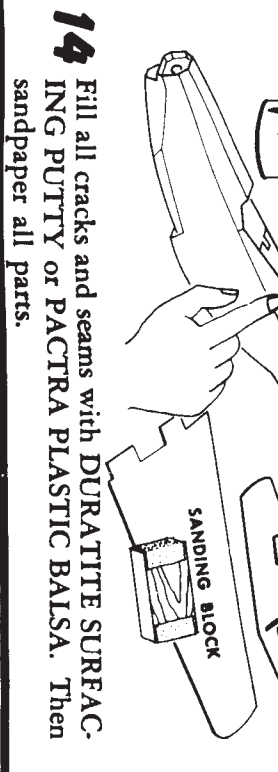
**IMPORTANT!**  
TOSS PLANE STRAIGHT UP

**26**

**NORMAL GLIDE** **STALL**  
If model stalls, (climbs, then dives sharp) bend tail down until glide is smooth and



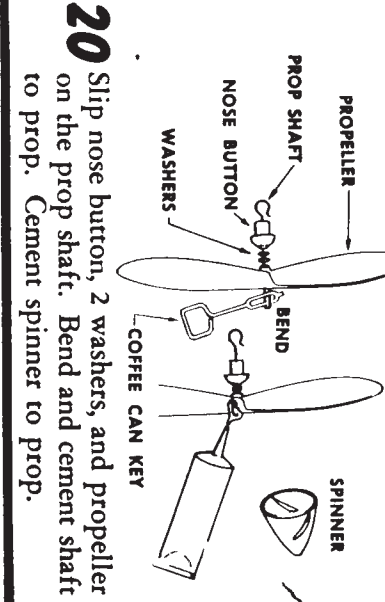
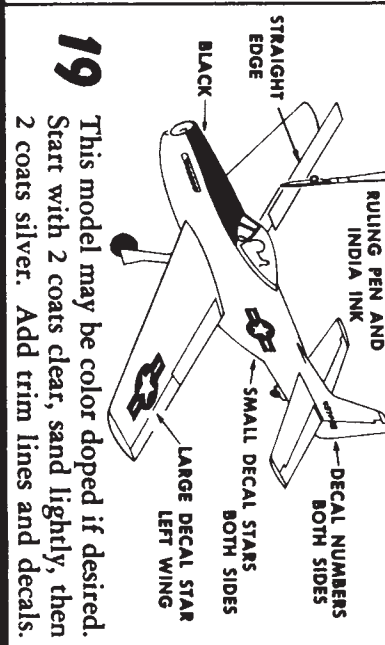
13 Cement piece 24 to wing 25, piece 26 to wing 27. Cement pilot halves, and tail wheel halves.



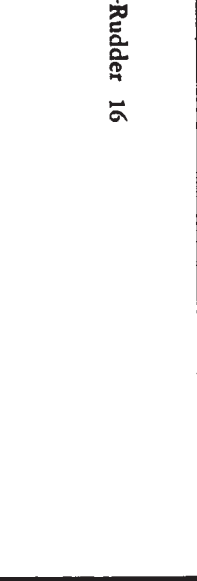
15 Cement wings, stabilizers, and rudder into fuselage.



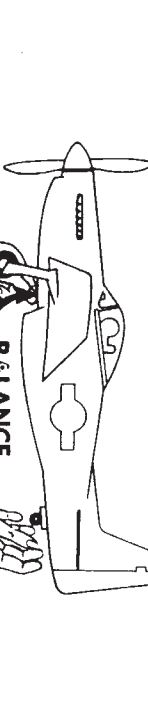
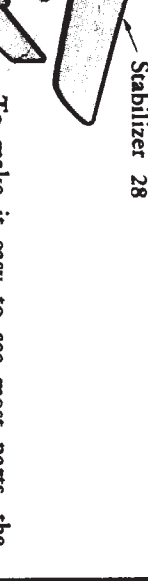
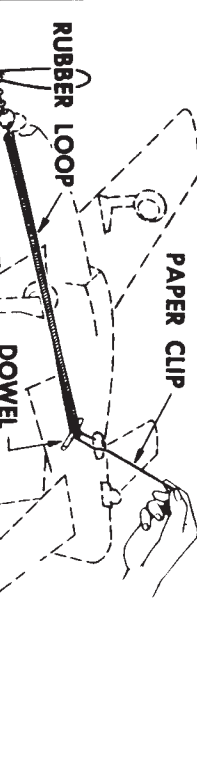
18 Cement pilot, canopy, and exhaust stacks into place. Hold wheels on with a drop of cement on the tip of each axle.



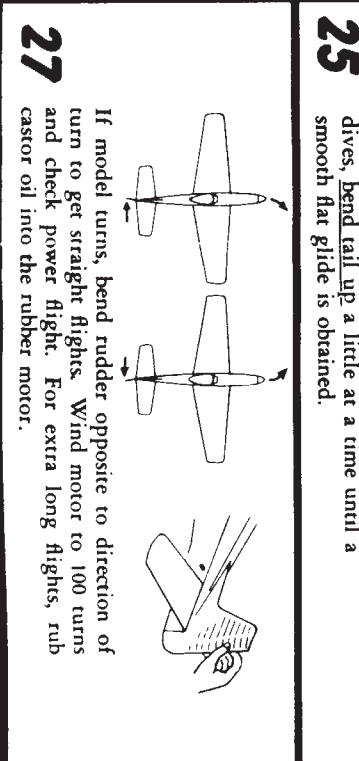
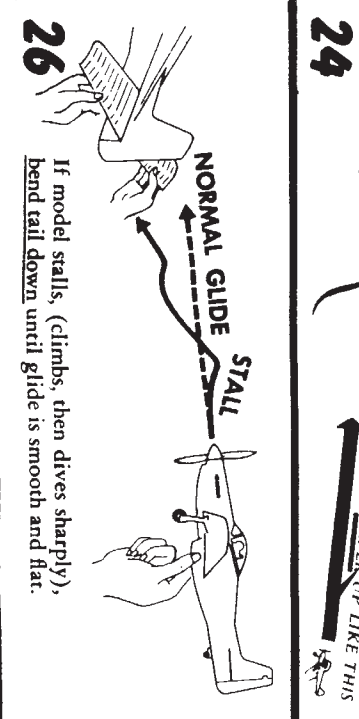
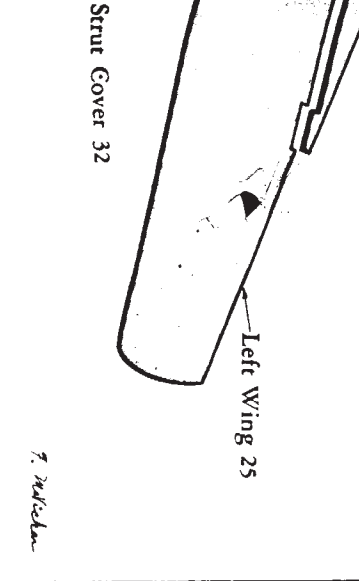
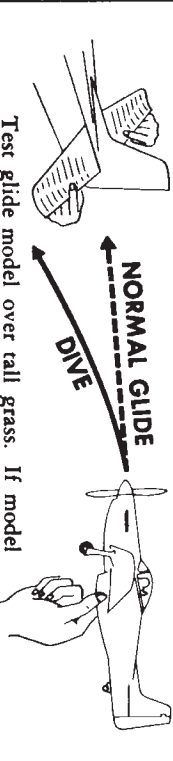
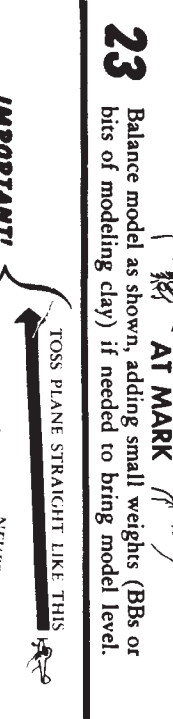
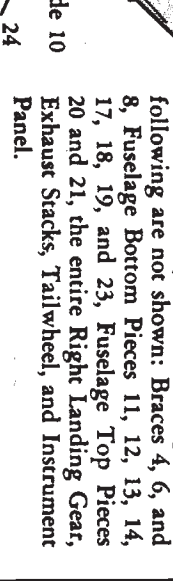
20 Slip nose button, 2 washers, and propeller on the prop shaft. Bend and cement shaft to prop. Cement spinner to prop.



**HOW TO FLY**  
Even little birds must be taught how to fly, so be sure to teach your model to fly by carefully following these suggestions.



22 Hook Rubber on Prop Shaft. Hook other end of rubber on opened paper clip. Drop clip through Fuselage to opening in Bottom. Slip dowel through Fuselage Side, then through rubber loop and other side.



ment balance weight  
her and piece 23 to  
as shown.

13 Cement piece 24 to wing 25, piece 26 to wing 27. Cement pilot halves, and tail wheel halves.

14 Fill all cracks and seams with DURATITE SURFACING PUTTY or PACTRA PLASTIC BALSA. Then sandpaper all parts.

15 Cement wings, stabilizers, and rudder into fuselage.

18 Cement pilot, canopy, and exhaust stacks into place. Hold wheels on with a drop of cement on the tip of each axle.

19 This model may be color doped if desired. Start with 2 coats clear, sand lightly, then 2 coats silver. Add trim lines and decals.

20 Slip nose button, 2 washers, and propeller on the prop shaft. Bend and cement shaft to prop. Cement spinner to prop.

**HOW TO FLY**  
Even little birds must be taught how to fly, so be sure to teach your model to fly by carefully following these suggestions.

21

22 Hook Rubber on Prop Shaft. Hook other end of rubber on opened paper clip. Drop clip through Fuselage to opening in Bottom. Slip dowel through Fuselage Side, then through rubber loop and other side.

23 Balance model as shown, adding small weights (BBs or bits of modeling clay) if needed to bring model level.

25 Test glide model over tall grass. If model dives, bend tail up a little at a time until a smooth flat glide is obtained.

24 **IMPORTANT!**  
Toss plane straight like this  
Never tip like this

27 If model turns, bend rudder opposite to direction of turn to get straight flights. Wind motor to 100 turns and check power flight. For extra long flights, rub castor oil into the rubber motor.

To make it easy to see most parts, the following are not shown: Braces 4, 6, and 8, Fuselage Bottom Pieces 11, 12, 13, 14, 17, 18, 19, and 23, Fuselage Top Pieces 20 and 21, the entire Right Landing Gear, Exhaust Stacks, Tailwheel, and Instrument Panel.

Strut Cover 32

26 If model stalls, (climbs, then dives sharply), bend tail down until glide is smooth and flat.

27 If model turns, bend rudder opposite to direction of turn to get straight flights. Wind motor to 100 turns and check power flight. For extra long flights, rub castor oil into the rubber motor.