



PBY-5

CATALINA Flying Boat

Revell

4522-3800

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LITHO IN U.S.A.

One of the most successful World War II aircraft was not fast, not very maneuverable, and would win few beauty contests. It was Consolidated's ungainly-looking PBY Catalina. Although it lacked the qualities mentioned above, the PBY nevertheless was a remarkable machine. It was very rugged, could fly over 2,500 miles, and hauled a two-ton bomb load. These factors made it the ideal plane for anti-submarine duties or air-sea rescue operations.

Over 3,300 PBY's were built, deliveries beginning in 1939. By 1941, Catalinas made up the U.S. Navy's patrol bomber fleet. The PBY-5 is typical of this durable seaplane, as it operated just before the War began. Aircraft number 2291 was the third of its type and reached the Navy in late 1940. It was a time of bright paint schemes and symbolic squadron insignias. Patrol squadron 14 adopted the

pine tree emblem while based in Seattle, Washington.

By the end of 1941, however, the brightly-colored era was over and military planes donned the drab uniforms of war.

SPECIFICATIONS

- WINGSPAN:** 104 feet
- LENGTH:** 63 feet 10½ inches
- HEIGHT:** 20 feet 2 inches
- ENGINES:** Two Pratt & Whitney R-1830 Twin Wasp, 1,200 hp each
- MAXIMUM SPEED:** 169 mph
- CRUISING SPEED:** 117 mph
- SERVICE CEILING:** 14,700 feet
- ARMAMENT:** three .30 cal machine guns, two .50 cal. machine guns
four depth charges, two torpedoes,
or 4,000 lbs. of bombs

★ ★ ★ BEFORE YOU BEGIN ★ ★ ★


GET YOUR TOOLS READY:

 <p>KNIFE TO DETACH AND TRIM PARTS FILE TO REMOVE EXCESS PLASTIC</p>	<p>KNIFE TO DETACH AND TRIM PARTS FILE TO REMOVE EXCESS PLASTIC</p>	 <p>TWEEZERS TO PICK UP AND HOLD SMALL PARTS</p>	<p>TWEEZERS TO PICK UP AND HOLD SMALL PARTS</p>	 <p>PAINT BRUSH TOOTH PICK</p>	<p>CEMENT USE TOOTHPICK PAINT BRUSH OR PIN TO APPLY IT</p>	 <p>TAPE</p>	<p>TAPE AND CLOTHES PINS TO CLAMP AND HOLD PARTS UNTIL THEY ARE DRY</p>	 <p>RUNNER - TAB PART</p>	<p>DO NOT DETACH PARTS UNTIL YOU ARE READY TO USE THEM! PARTS ARE NUMBERED TO HELP YOU FIND THEM. LOOK FOR THE NUMBER ON TAB NEXT TO PART OR ON PART ITSELF.</p>
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FIRST, FIT PARTS TOGETHER and TRIM EXCESS PLASTIC. Use a toothpick, pin or small paint brush to apply cement. APPLY CEMENT SPARINGLY. Too much cement will damage your model.

NOTE: In the illustrations some of the details on the parts have been OMITTED FOR CLARITY.

NOTE: DISCARD ANY PART NOT CALLED FOR IN THE ASSEMBLY STEPS.

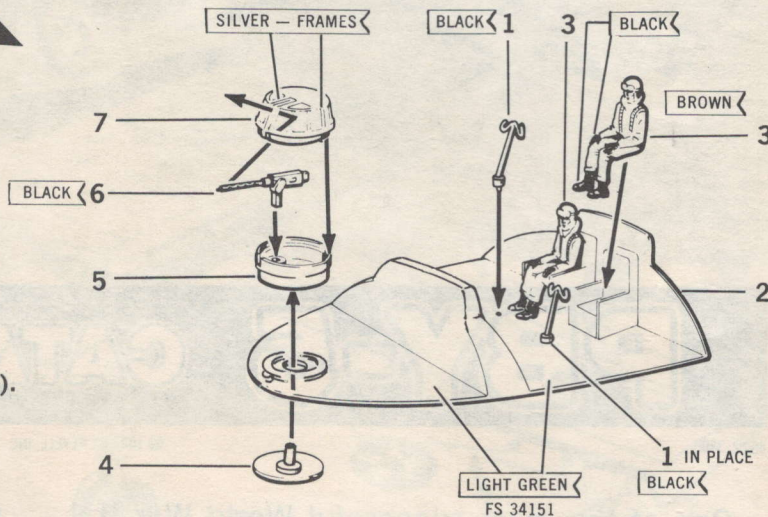
IF YOU WISH TO PAINT YOUR MODEL — See PAINTING FLAGS  for color suggestions.

- Use paints made for plastics only.
- Paint small parts before detaching from runner.
- Start with the lighter colors.
- Scrape off paint where cement is to be applied. Cement will not work on paint.

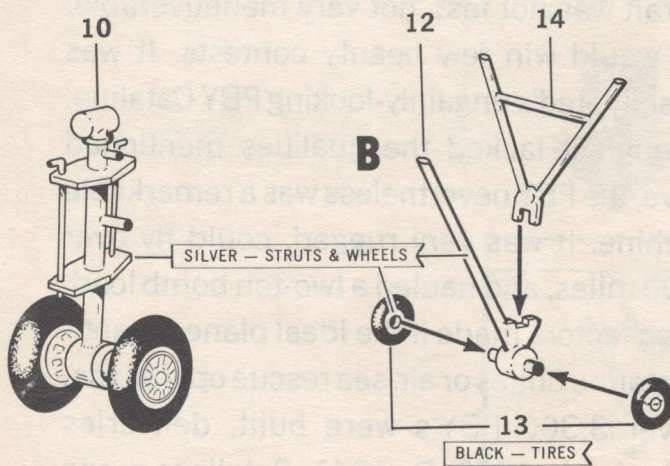
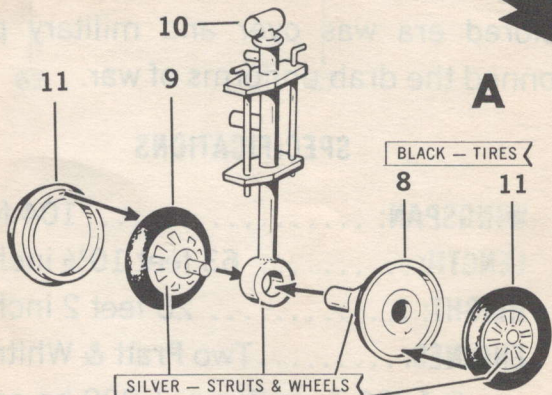
1 FLIGHT DECK

- 1 CONTROL COLUMN (2 Parts)
- 2 FLIGHT DECK
- 3 CREW MEMBERS (2 Parts)
- 4 NOSE TURRET RETAINER
- 5 TURRET BASE
- 6 MACHINE GUN
- 7 TURRET ENCLOSURE (CLEAR)

1. Cement two Parts (1) and (3) to Part (2).
2. Press Parts (4) and (5) together through hole in Part (2).
3. Cement (6) and (7) to Part (5).



2 BEACHING GEAR



- 8 INSIDE WHEEL HALF WITH AXLE (2 Parts)
 - 9 INSIDE WHEEL HALF (2 Parts)
 - 10 BEACHING GEAR (2 Parts)
 - 11 OUTSIDE WHEEL HALF (4 Parts)
- DRAWING B
- 12 TAIL SUPPORT STRUT
 - 13 TAIL WHEELS (2 Parts)
 - 14 SIDE BRACE

DRAWING A

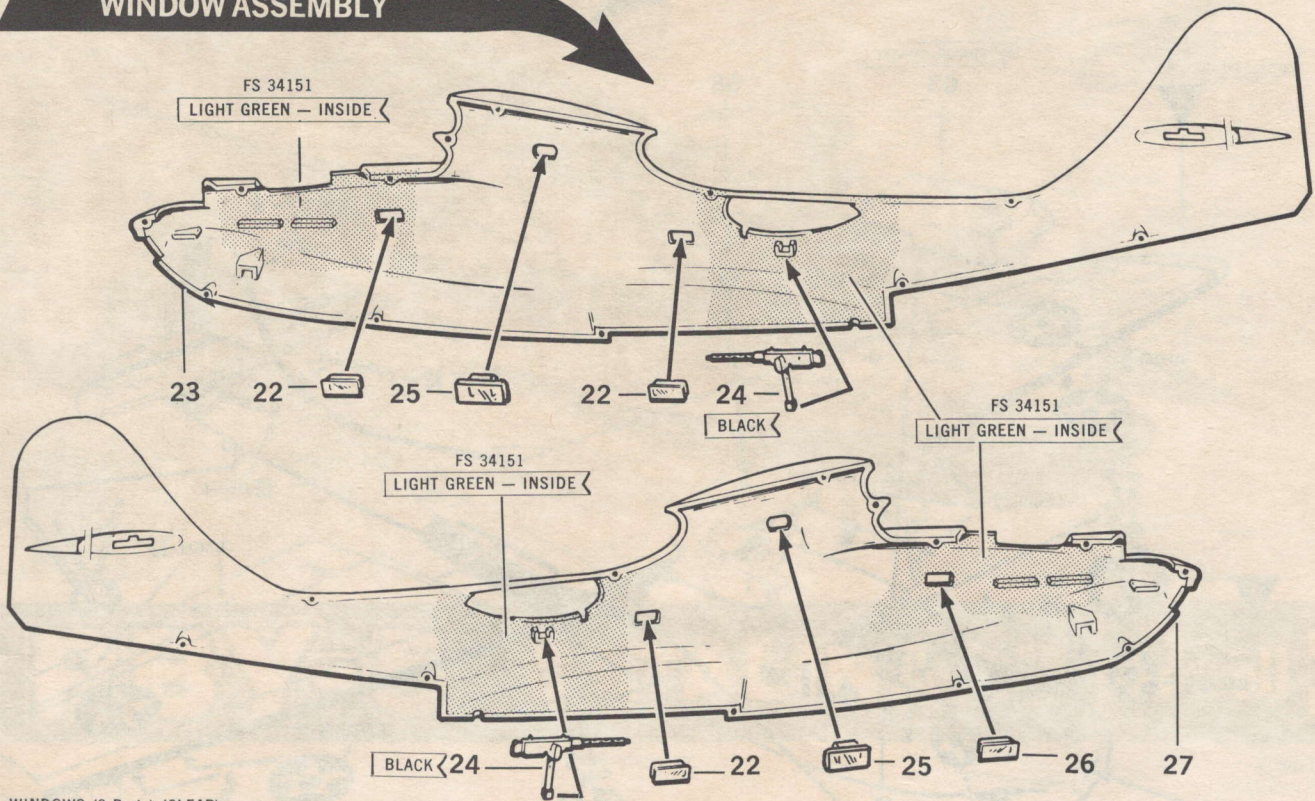
1. Press WHEEL HALVES (8) with AXLE, and (9) together inside GEAR STRUT (10). Repeat assembly for other GEAR.

DRAWING B

1. Cement two TAIL WHEELS (13), to STRUT (12). Cement (14) to (12).

3

WINDOW ASSEMBLY

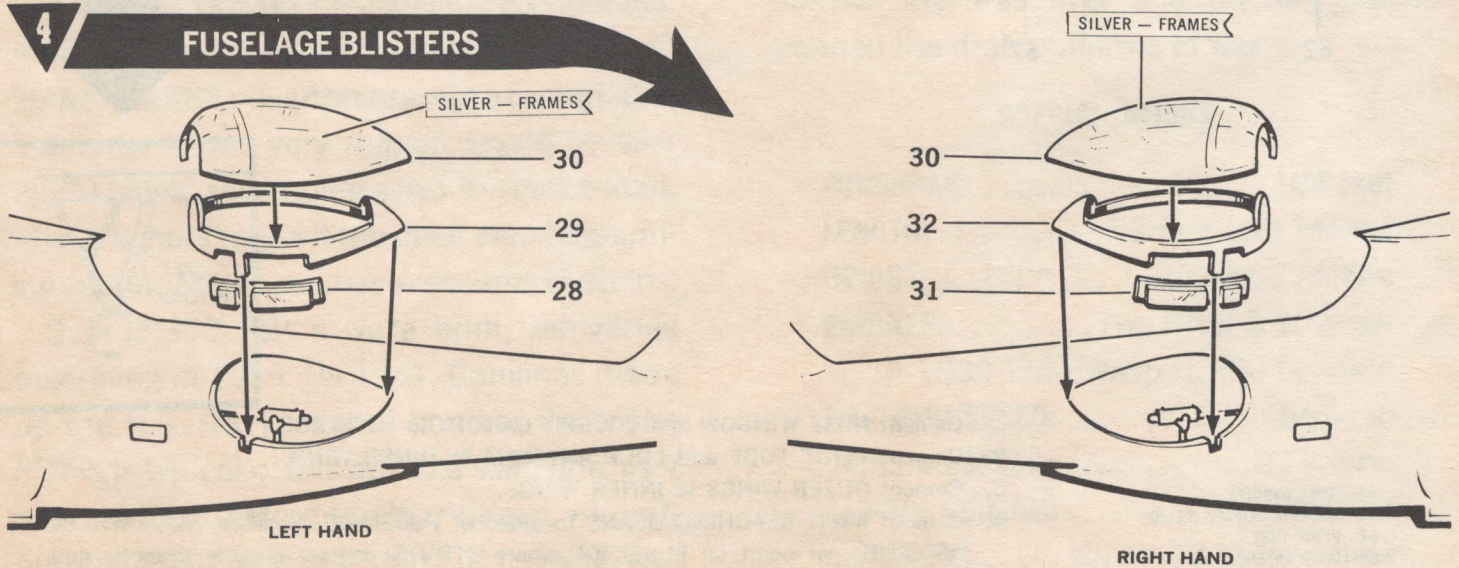


- 22 WINDOWS (3 Parts) (CLEAR)
- 23 RIGHT FUSELAGE
- 24 MACHINE GUN (2 Parts)
- 25 PYLON WINDOW (2 Parts) (CLEAR)
- 26 LARGE WINDOW (CLEAR)
- 27 LEFT FUSELAGE

1. Cement Clear WINDOWS AND GUNS inside both FUSELAGE HALVES as shown.

4

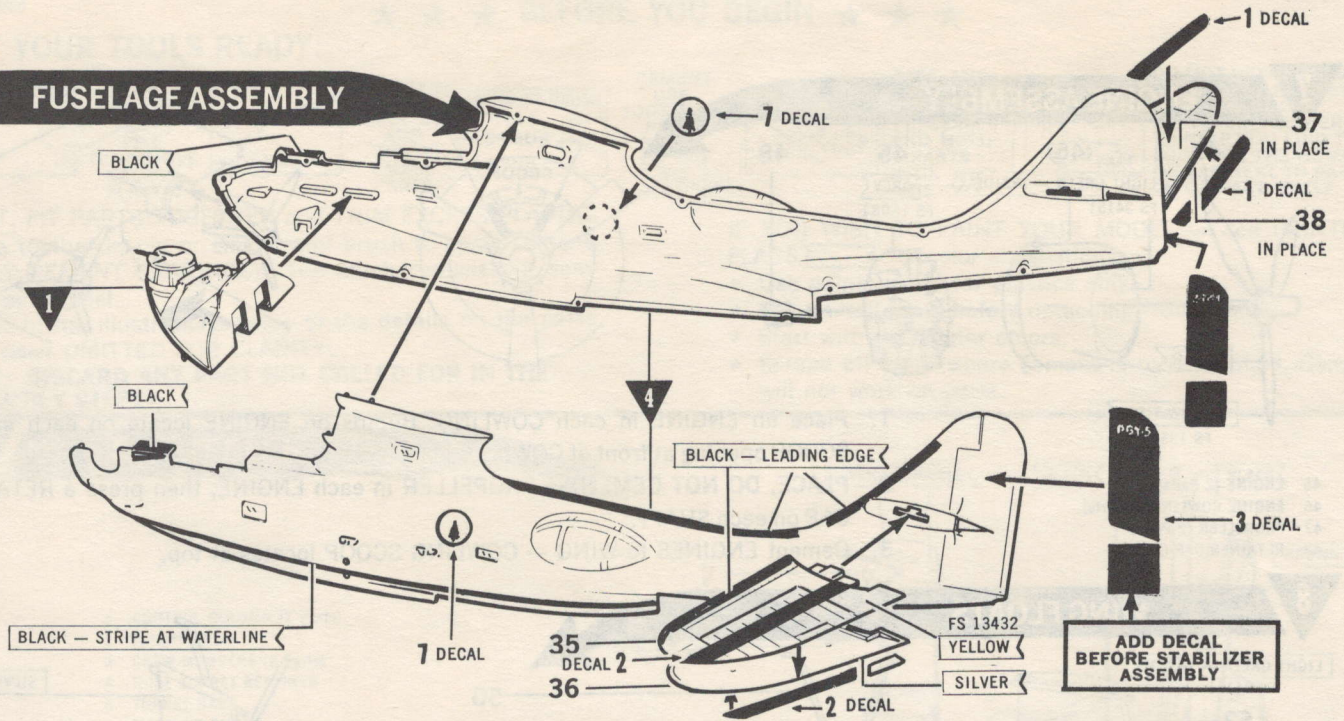
FUSELAGE BLISTERS



- 28 LOWER LEFT WINDOW (CLEAR)
- 29 BLISTER FAIRING LEFT
- 30 GUN PORT BLISTER (2 Parts) (CLEAR)
- 31 LOWER WINDOW RIGHT (CLEAR)
- 32 BLISTER FAIRING RIGHT

1. Cement the LEFT GUN PORT WINDOW (28) in the BLISTER FAIRING (29). Cement (29) to LEFT FUSELAGE. Then cement one clear BLISTER (30) to FAIRING.
2. Repeat assembly for RIGHT FUSELAGE using parts as shown.

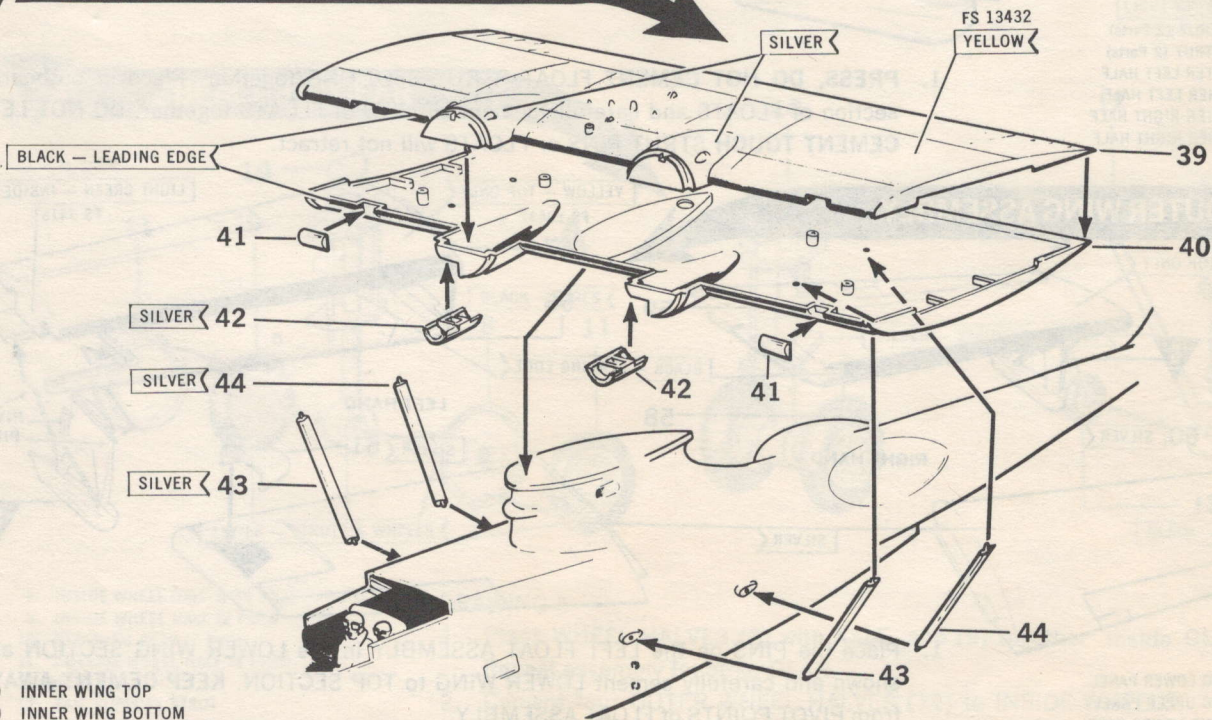
5 FUSELAGE ASSEMBLY



- 35 LEFT STABILIZER TOP
- 36 LEFT STABILIZER BOTTOM
- 37 RIGHT STABILIZER TOP
- 38 RIGHT STABILIZER BOTTOM

1. Cement FLIGHT DECK to RIGHT FUSELAGE HALF then cement FUSELAGE HALVES together.
2. Assemble LEFT and RIGHT STABILIZER HALVES together and then cement to FUSELAGE. Apply DECALS as shown.

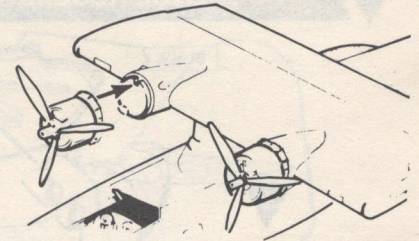
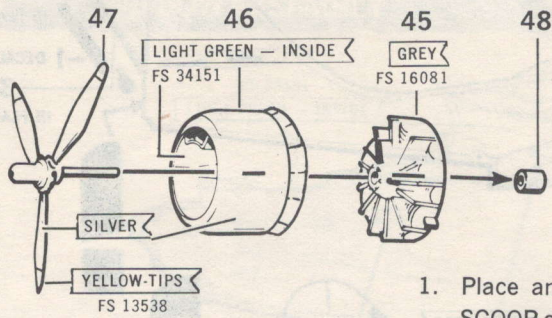
6 INNER WING ASSEMBLY



- 39 INNER WING TOP
- 40 INNER WING BOTTOM
- 41 LANDING LIGHT COVER (2 Parts) (CLEAR)
- 42 OIL COOLER FAIRING (2 Parts)
- 43 FORWARD WING STRUT (2 Parts)
- 44 REAR WING STRUT (2 Parts)

1. Cement WING SECTIONS together and add clear LIGHT COVERS to LEADING EDGE, then OIL COOLER FAIRINGS to NACELLE FIREWALLS. Cement INNER WING to top of FUSELAGE.
2. Cement FORWARD and REAR WING STRUTS between WING and FUSELAGE

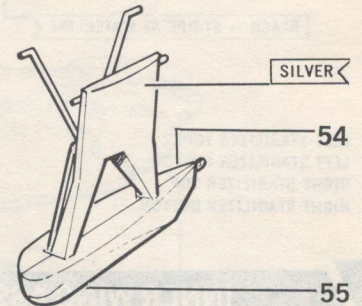
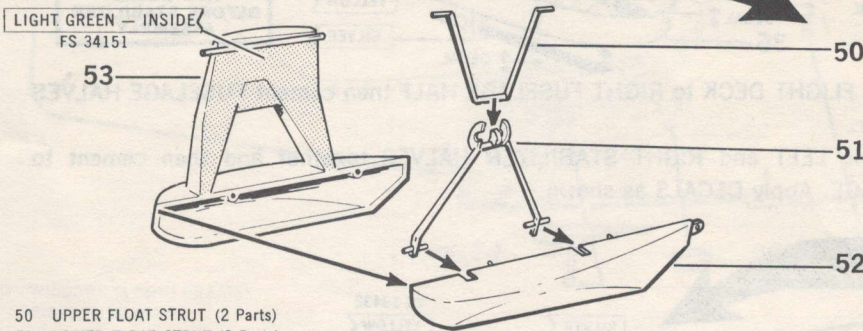
7 ENGINE ASSEMBLY



- 45 ENGINE (2 Parts)
- 46 ENGINE COWLING (2 Parts)
- 47 PROPELLER (2 Parts)
- 48 RETAINER CAP (2 Parts)

1. Place an ENGINE in each COWLING. Bumps on ENGINE locate on each side of SCOOP opening at front of COWL.
2. **PLACE, DO NOT CEMENT** a PROPELLER in each ENGINE, then press a RETAINER CAP on each SHAFT.
3. Cement ENGINES to WING — COWLING SCOOP locates at top.

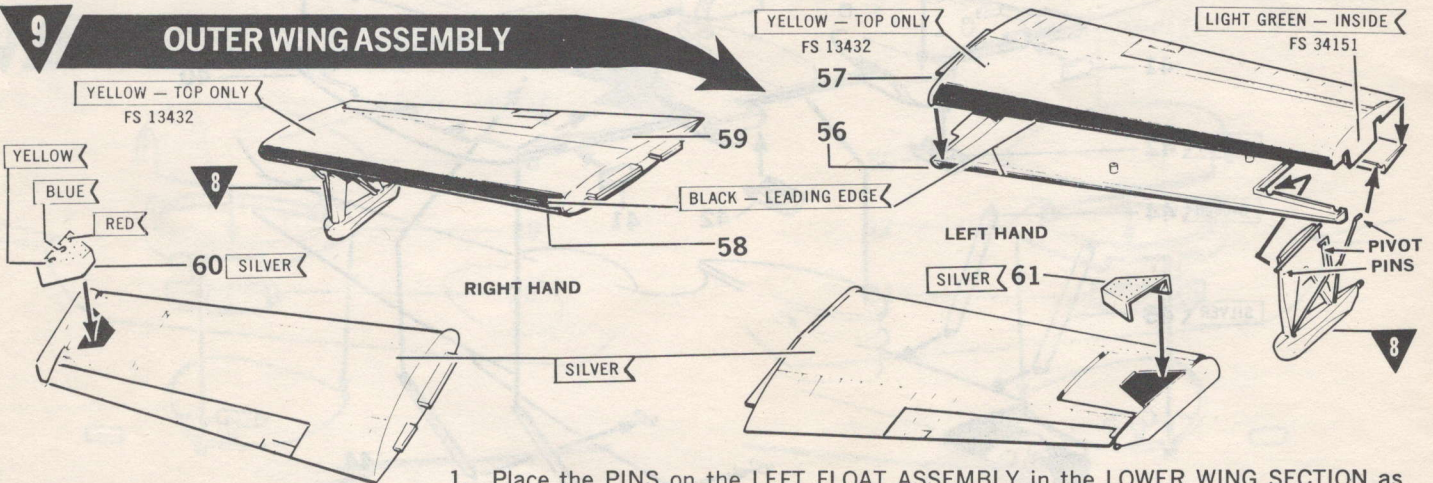
8 WING FLOATS



- 50 UPPER FLOAT STRUT (2 Parts)
- 51 LOWER FLOAT STRUT (2 Parts)
- 52 WING FLOAT OUTER LEFT HALF
- 53 WING FLOAT INNER LEFT HALF
- 54 WING FLOAT OUTER RIGHT HALF
- 55 WING FLOAT INNER RIGHT HALF

1. **PRESS, DO NOT CEMENT** FLOAT STRUT SECTIONS together. Place in outboard section of FLOATS and carefully cement HALVES of FLOATS together. **DO NOT LET CEMENT TOUCH STRUT PINS** or FLOATS will not retract.

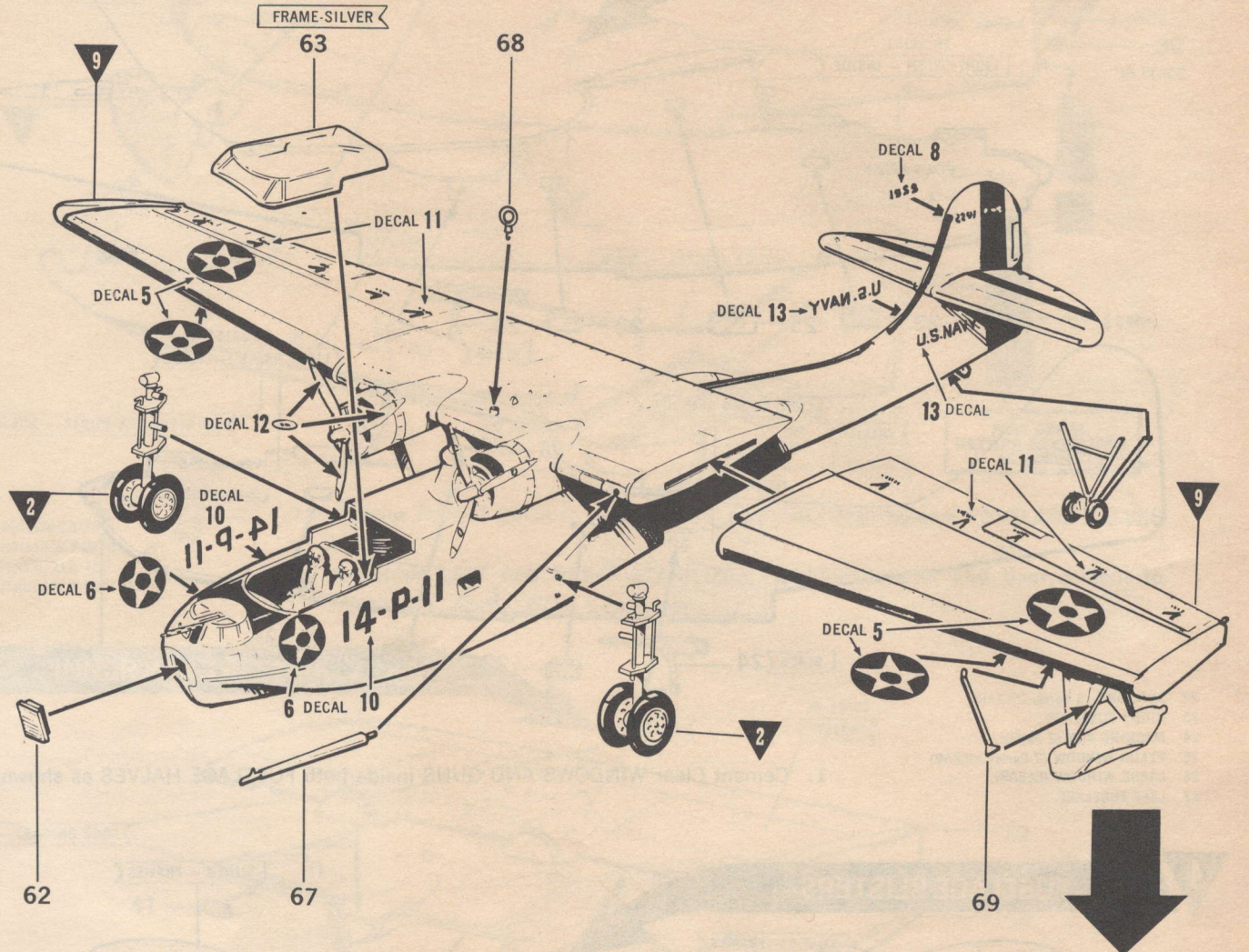
9 OUTER WING ASSEMBLY



- 56 LEFT OUTER WING LOWER PANEL
- 57 LEFT OUTER WING UPPER PANEL
- 58 RIGHT OUTER WING LOWER PANEL
- 59 RIGHT OUTER WING UPPER PANEL
- 60 FLOAT STRUT FAIRING RIGHT
- 61 FLOAT STRUT FAIRING LEFT

1. Place the PINS on the LEFT FLOAT ASSEMBLY in the LOWER WING SECTION as shown and carefully cement LOWER WING to TOP SECTION. **KEEP CEMENT AWAY** from PIVOT POINTS of FLOAT ASSEMBLY.
2. Assemble RIGHT WING and FLOAT ASSEMBLY.
3. When cement has set turn upside down and retract FLOATS then cement STRUT FAIRINGS to the inside surface of both TOP WINGS through openings in FLOAT ASSEMBLIES. Apply DECALS as shown.

10 FINAL ASSEMBLY



- 62 NOSE WINDOW
- 63 COCKPIT CANOPY (CLEAR)
- 67 PITOT TUBE
- 68 LOOP ANTENNA
- 69 FLOAT LOCKING STRUT (2 Parts)

1. Cement NOSE WINDOW and COCKPIT CANOPY to FUSELAGE.
2. Cement PITOT TUBE and LOOP ANTENNA to INNER WING.
3. Cement OUTER WINGS to INNER WINGS.
4. Cement MAIN BEACHING GEARS to sides of FUSELAGE. Position REAR WHEEL ASSEMBLY at point on FUSELAGE where STRUTS contact surface properly and cement in place. Apply DECALS as shown.

If you wish to keep the WING FLOATS in a permanent down position cement the FLOAT STRUTS (69) between bottom of WING and pivot point of FLOAT BRACES.