

Ziroli DC-3 1/8 Scale Parts List

Vacuform Pieces

- 1 Floor
- 2 Oil Tank Back Wall
- 3 Dash
- 4 Lower Center Console
- 5 Upper Control Quadrant
- 6 Rudder Rails (2)
- 7 Rudder Pedals (4)
- 8 Dash Hood
- 9 Two Seats

Resin Pieces

- 10 Control Wheel (2)
- 11 Left Control Column
- 12 Right Control Column
- 13 Aux. Oil Pump
- 14 Hydraulic Control Valve (2)
- 15 Valve Handle

Miscellaneous Pieces

- 16 1/8" Brass tube x 1" Long
- 17 1/8" Clear Plastic tube 3" Long
- 18 1/4 x 3/16 Rectangle 2"
- 19 1/16 Alum. Wire, 3" long
- 20 1 T-Pin
- 21 2 Small Pins
- 22 6 Large Pins
- 23 1/8" Alum. Tubing, 7" Long, 2 Pieces
- 24 Silver cloth, 12 x 14
- 25 Computer Disc
- 26 1/16" Plastic Rod, 2" Long
- 27 1/16" x 3/32" Plastic Rectangle
- 28 Two 1/8" Alum. Tube, U Pieces for Seat
- 29 Two 1/8" Alum. Tube, L Pieces for Seat
- 30 One Straight Piece, 10" Long for Seat
- 31 Four Plastic Seat Rails, 4" Long
- 32 Trim Wheel
- 33 6" 1/16 Alum. Tube
- 34 1/8 Plastic Rod

Instruction for the Ziroli 1/8 Scale DC-3

Thanks for purchasing the Dynamic Balsa Master Series DC-3. I have included two Disc to help you build this model. The One is from the 1939 DC-3 a friend of mine owns and the other is from the completed Cockpit. Over the last 60 years there are thousands of changes to the interior of the cockpit. The particular one you build may be slightly different however most things will remain the same. Most DC-3 cockpits I have been in are completely black including the floor, side walls, dash and seats. I have painted mine different colors to brighten it up and to make the parts more noticable. You should always make a paper pattern for the floor and other form fitting pieces so as not to ruin the original. If you have any questions please feel free to call us at 815-856-2271.

1 FLOOR - This goes from the former ahead of the dash to the one behind the windows. We put our floor 4" below the window ledge which is pretty close to scale. I recommend you make a wooden floor out of 1/8" balsa then cut out the floor so that the front step on the floor is 2 1/8" behind the former ahead of the dash. Cut the back off so that it is against the rear former. The floor is painted grey or black or possibly Zinc Chromate if it is a military plane. The floor panels behind the pilot in the center are wood panels and are painted brown. The door in the center between the seats stores the fire extinguisher and is painted red. Glue scrap balsa to the bottom of the raised parts so that the floor will sit solid. Then glue this assembly into the airplane.

2 THE OIL TANK- This oil tank sits directly behind the co pilot and is out approx. 1" from the rear former. Cut the back off of the holes where the gauges go and paint this part grey or zinc chromate. Paint the inside of the holes flat black. Next take a piece of plastic provided and cover the back of the two holes and tack glue this plastic in place using a low temp hot glue or a thick CA. Take the gauges they are already spaced properly cut around those leaving extra paper at the top and bottom to glue this to the back of the plastic lining up the gauges with the holes. Take a piece of scrap balsa and glue over the back of the gauges. Take part number 18 and cut 1/2" long and then cut a bevel on the top edge so that it is 3/16" wide and 1/4" tall. Make two of these pieces and then drill a 1/8" hole in the flat side for the clear plastic tubing to fit into, take the 1/16" alum. rod and paint red. Cut off 1" long and insert it into the plastic tubing, then glue these two plastic pieces and tubing assembly which should be 1 1/2" apart inside to the side of the oil tank above the gauges. Paint these pieces of plastic silver. It should look like the oil tank is half full on the gauge. Take the brass tube (16) this goes approx. 1" below the gauges, glue a wood backer to the plastic then drill a 1/8" hole thru the plastic and thru the wood. Glue the tube in so that 1/4" sticks out then cut a piece off of the knurled stock (15) 1/8" wide and glue to the end of the brass tube. Take the two hydraulic control valves (14) and cut off so they are approx. 1/2" overall length, drill a 1/8" hole in the round part on top making sure you are on center. Paint these pieces silver, next take some alum. Tube (23) cut one piece 1 1/4" and one piece 2 1/2" paint these handles yellow and glue into the end of the hydraulic valve. These are glued approx. 1" from the floor and 1 3/4" from the floor on the side of the oil tank. Take some balsa 1" thick and make some backers for the oil tank and then glue this behind the co pilot seat making sure the edge of the oil tank is even with the step in the floor on the inside edge. This oil tank should fit floor to ceiling next take the silver cloth provided (24) and paint black or OD green and then glue to the front side of the oil tank and trim at the top of the fuse and fold forward below the window line.

3 INSULATION COVER -Take more of the alum. Cloth (24) and paint black or green to match the oil tank and make the side covers and go from the back wall to the front under the dash on both sides. Trim off even with the top of the window sill.

4 LOWER CENTER CONSOLE- (4) Cut this out so that it should sit 1 1/2" high. Glue scrap balsa inside to help support it and the back of this console sits evenly with the step in the floor. Take the T-Pin provided put thick CA on the head of the pin and hit with kicker so that it will fill in the crack and look like a solid handle then paint this red and insert into the circle lower left of the center dash. Next take the 1/8" plastic rod (34) cut three pieces 1/8" long and glue into the center of the three circles above the T-Pin. Before you put these pins and plastic on you should paint this flat black. Next take the plastic rectangle (27) cut two pieces 3/8" inch long using a sharp knife or scribber, make an X in the top of the circle on the left and right side on the top of the center console then paint these plastic pieces red and glue onto and across the circles. These are the fuel selector valves. You should wait to glue this assembly in until you get your dash done.

5 DASH-(3) -Cut this dash out around the edge leaving a 1/16" lip and cut the back off the

holes leaving a 1/16" lip. Paint the dash black then take the clear plastic and cut a piece so it fits over all the holes and tack glue to the back of the dash with a low temp hot glue gun or a thick CA. Next cut around all the gauges and line those up with the holes and tack glue the paper in place. Cut a piece of scrap 1/16" balsa and tack glue this in place behind the gauges to make a sandwich of all four pieces. Paint the radio knobs and switch handles white, Using the piece of 1/16" plastic provided cut small knobs and glue to the clock and to the altimeter. This whole assembly sits on top of the lower dash, you should cut two 3/4" thick balsa and glue to the back of the dash as spacers between the dash and the former in front of the dash. The top of the dash should just be slightly above the window line.

6 RUDDER RAILS AND RUDDER PEDALS (6 AND 7)- Cut each rail in half and paint black, these will be glued in front of the seats, before you glue these to the floor you should line the seat up and put these rails in front of the seat. Cut around the rudder pedals and cut a notch in the bottom of the pedal using a piece of the 1/8" tubing provided glue inside in the back of the pedal so its sticks thru the notch a 1/2". When you go to install these you will need to drill a 1/8" hole in the center of the rudder rail and stick these rudder pedals thru the rail.

7 DASH HOOD (8)- You should cut around the dash hood leaving it big except in the front where it should be cut off just below the circuit breaker line, then tape this to the top of the dash and set your windshield on top of this. Draw around the windshield with a pen and cut 1/8" inside the line or more and cut this out make sure it fits and paint black. Then paint the circuit breakers white and the indicator lights red on the outside four and green on the center three. Then glue this to the top of the dash.

8 UPPER CONTROL QUADRANT (5) - Cut this out using the side template provided in the plans, glue a piece of balsa in the round end and also put balsa in the flat part as a stiffener and to have something to glue to. Glue the alum. Trim wheel (#32) to the left side of the quadrant and paint this assembly black. Then using the pins provided (21 or 22) install two small ones in the front left side and paint yellow, install two yellow pins in the back left side, before you stick these pins thru the plastic into the alum. Place a piece of 1/16" Alum. Tubing (33) over the pins this will make the shaft bigger and look more realistic. Use 1/4" for the two small pins and 3/8" for the large pins. Next install two white large pins on the center on each on the flat spot then two large red pins on the right side. You can paint the heads of these pins if you do not have the right colors. Then glue the quadrant in the center of the lower quadrant.

9 CONTROL COLUMNS (# 10, 11,12, AND 23) -Take resin parts number 10,11, and 12 and sand the edges and back so that they are smooth and have no flashing. Then take the alum. tubing (23) and cut two 1/2" pieces, drill a 1/8" hole in the back of the wheel and in front of each control column. The control wheels are painted black and the posts could either be painted black or grey or Zinc Chromate. Then assemble these and glue them in place. The control columns go right on the edge of the step on the floor against the side walls. The center of the control column is 3" off the floor approx. 1" below the window ledge.

10 SEATS (# 9, 28, 29, 30 AND 31)- Take the two seats and cut out as shown on the instructions. Using the two U-shaped pieces of alum. Cut off the bottom of the legs so that they are 1 1/4" below the bottom of the seat and glue this to the back of the seat. Take the L-shaped pieces (29) and glue these under the seat and cut off the front leg so it is 1 1/4" below the bottom of the seat. Take the seat rails (31) glue the seat to these rails so that there is 1" of rail behind the U-shaped tubing. These rails should be approx. 3 3/4" long. Using # 30 cut two pieces approx. 4" lg. and sand at a bevel and glue to the back of the seat and to the rail approx. 3/4" behind the U-shaped piece. Then paint this assembly black and glue to the floor of the cockpit.

11 **AUXILARY HYDRAULIC OIL PUMP (#13)** -Using a 1/8" drill, drill a hole in the round part of this resin piece. Using some alum. Tubing (#23) cut a handle 2 1/2" long and glue into the hole, paint the oil pump black and the handle yellow. This sits on the floor to the left and behind the co-pilots seat with the handle going forward laying on the floor.