



COMPOSITE FRONT VIEW

BACKGROUND. Wedelf Williams Incorporated was organized during 1928 by pilot/designer James Robert Wedell and millionaire Harry Palmarson Williams. The Louisans firm offered charter services, passanger flights, and flying leasons. They also branched into manufacturing, stering with sport types, then ventiured into producing racing aircraft.

During 1931, Jimmy Wedell achieved a credible second place in the Thompson Trophy event, bettered only by Lowell Bayles in the Gee Bee "Z". Among those impressed by the performance was Roscoe Turner, who contracted for a brand even Wedelf Williams racer. Actually, ince members of the WHY group were occupied with their own efforts, a major portion of the bahrication was conducted by Don Young. Turner's ace mechanic Since formed drawings for previous racers did not exist, most dimensions were obtained by direct measurement of a nearby aircraft.

The finished machine was trest flown by Jimmy Wedell and accepted by Roscoe Turner. However, at the insistence of Harry Williams, a second test was performed with ballast added to the seal, simulating the extra weight of Turner. During a high-speed pass, one wing failed and Wedell just managed to except by parachists before the aircraft was totally distroyed.

LION: "Mesnayshib," Wedell Williams updated two earlier racers, -44 "MISS PATTERSON", and -92 "MISS NEW ORLEARS", in preparation for the 1932 racing season. Thus, three similar-appearing aircraft participated in the Cleveland National Air Races with remarkable success, as shown by this table.

1932 AIR RACE PLACINGS

PLACE	EVENT	PLANE	PILOT	
1st 2nd 3rd	Bendix Trophy Race	#92 #44 #121	James H. Haizlip James R. Wedell Roscoe Turner	
1st 2nd	1000 cubic inch free-for-all	=92 =44	James H. Haizlip James R. Wedell	
2nd 3rd 4th	Thompson Trophy Race	=44 =121 =92	James R. Wedell Roscoe Turner James H. Haizlip	
2nd	Aerol Trophy Race (women only)	#92	Mary Haizlip	
2nd 3rd 4th	Shell Petroleum Corporation Speed Dash (men only)	#44 #121 #92	James R. Wedell Roscoe Turner James H. Haizlip	
lst	Shell Petroleum Corporation Speed Dash (women only)	=92	Mary Haizlip	
2nd	Aero Club of Poland Altitude Competition	=44	James R. Wedeli	

THE MODEL: This model kit is intended to represent a Wedell Williams racer as it appeared in 1932. The machines differed in many respects and =121 is the primary subject. Alternatively, a reasonable simulation of either =44 or =92 may be constructed. Purists may wish to conduct additional research and rewark the kit modelings to more accurately reflect the varietisms. However, considerable time and effort may be involved for relatively minimal appearance gains. It is also well to be aware that misinformation and melisading drawings have appeared. Photographs are the most troutworthy source of information, but however of erroneous captional All three aircraft were modified in configuration, markings and paint schemes after 1932.

GENERAL INFORMATION: This kit should be approached with patience and care. It is not intended for the rank beginner or "instant gratification" model assembler.

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IMPORTANT: BEFORE STARTING: It should be determined at the outset which racer you prefer to model, in order that differences may be incorporated.

Clean all parts in bulewarm water and liquid detergent, so that paints can adhere properly. Remove any "flash" that may be present and use a sending block to dress all matting surfaces. A suitable block can be made by gluing No. 400 sandpaper to a flat scrap of wood.

Use only cement suitable for styrene plastic, and avoid excess amounts, which may cause surface damage. For safety and efficiency, follow the cement manufacturer's instructions exactly. Check the fit of each part BEFORE applying cement. A certain amount of fitting may be required in some instances.

instances.

Small parts may be painted while still attached to their "trees". Separate only as needed to reduce the risk of loss. When comenting components to already painted surfaces, first scrape away paint in joining areas to permit proper adhesion.

PAINTING: Some modelers prefer to assemble the aircraft in advance of painting, but in view of the fairly complex color schement, it may be preferable to paint the individual sub-assembles and assemble them afterward.

Follow paint manufacturer's instructions for safety and efficiency. Spray painting is suggested, but good results can be achieved using high-quality brushes. Flat white paint may be used as a primer, and when thoroughly dry, sanded with No. 6000 even tapper. A soft pencel may be used to draw on the color demarcation lines, using thin card-stock templates as guides. Narrow strips of masking tape may be applied along the color division lines. Tight curves may call for cutting sections of tape to proper shape. Bearnish the tape adopt only according to reduce the paint of the safety of the color division lines. Tight curves may call for cutting sections of tape to proper shape. Bearnish the tape adopt only securely to reduce risk of paint "bliedring" undernesth. Some builders apply a thin cost of clear enames along the tape adges to seal the junctures before applying colored paint.

apply at this coal of clear enames anding the tape eages to see the junctions series applying contents and paint.

Alternatively, a liquid marking film may be employed. When the model has been suitably marked, apply the paint. Some builders strip off the marking agent immediately, before the paint has dred, which allows the edges to self-level. Others prefer to wait until the paint has hardened, reducing risk of frageprints, smears, etc., but often resulting in slightly uneven paint edge junctions. When removing marking tape, poul the tape back upon itself at a low angle, close to the model, rather than polling straight out at a right engle, which might defauch the paint underneath.

Narrow stray-levines superating the colors are Featured on races a 121 and «44. Applying such lines using a brush in difficult, even for skilled artists. Somewhat easier is employing a draftsman's beclinical flowation per and suitable guidee. Working around compound curves can be exceptionable with the paint is used, mistakes can be easily removed with water, at no risk to the surrounding paint. When dry, the ink may be usabled and waterproofed with a clear coating.

A simpler approach involves the use of this striping tape. Also known a chart tape, the material is available from large art supply stores and some hothly shops; its chief disadvantage is its thickness, which can be both seen and left to extend above the paint's surface. However, it offers ease of application and may be sealed in place with an application of clear enamel, as may the decale.

COLOR INFORMATION: (see also box lid)

#121. Overall: Cream
Trum Bright ed in
Color superation lines: Black
Markings at on decal sheet. NOTE: Coveling trim must be painted on except for
the "diamonds" whech are formathed in decal form.

WILLIAMS

Overall: White

#921 — Overall White

Cowl, I noward portion of fuselage, wing roots and landing gear: Black
Markings as on decal sheet

NOTE: Oliferent opinions exist regarding the color of certain Wedell Williams emblems.
Also, some markings were changed in size, location and color during repaintings.

INTERIOR

COLORS: Stick: Silver with variented wood hand grip

Gas tank, seal and floor members: Aluminum

Bulkheads: Variented plywood Compass: Black

Crank case: Gray Cylinders: Black Intake tubes: Black

PROPELLER: Polished Mark

TIRES: Dark Grey

RIGGING, WISES: Natural polished matel.

RIGGING WIRES. Natural polished metal

INDIVIDUAL RACER CHANGES AND DIFFERENCES:

UNAL NACER CHANGES AND DIFFERENCES:
Rework alterior trailing edges as illustrated in top view drawing.
Alterior rear edges will need to be trimmed and sanded to proper thickness.
Use landing gene part Nos. 27, 25 and 29.
Assemble stabilizer parts in FORWARD location of fuselage slots.
Make enhanced by the extensions from furnished vinyl fubring.
Make outside air temperature sensor from wine (not furnished) and attach to top of vertical

Rework alleron trailing edges as for +121.
Incise louvers in port side of fuselage nose, and fill those on starboard side.
Use landing geng part Nos. 27, 28 and 29.
Assemble stabilizer parts in FORWARD location of fuselage slots.

Fill in vertical panel lines of fuselage sides, and rescribe them to angle, as illustrat Add extra "bump" (No. 31) to upper fuselage. Use wings without reworking allerons. Use landing gaser part Nos. 25 and 26. Assemble stabilizer parts in AFT location of fuselage slots.

GENERAL CONSTRUCTION:

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ENGINE AND COWLING: Paint imide of cowling halves (Nos. 1 and 2). Paint engine parts before assembly for nestest results. Install propeller shaft (No. 3) into crankcase front section (No. 4). Add crankcase part (No. 5), being careful that propeller is free to turn. Gement on crankcase rear part (No. 7). Add engine eyinders (No. 6, nine required), being careful an they are correctly slipped. NOTE: Tem pushrods, as required, for best fit. Finally, cement an exhaust stack to the back of each cylinder and adjust its location before the cement dies. Note that tempth and location varied on these cacers over the years. Furnished viny! tubing may be adapted as desired. File outside diameter of engine as required to ensure a rang lift inside cowling halves. Assemble halves with engine enclosed, but movable, to permit alignment during model assembly. After cowling joints have dried, smooth seams and prime. Mask engine for protection if spray painting is employed.

FUSELAGE: Drill regions holes as indicated on drawnings. Note that some functions vary with chaics of the subject aircraft. Pant cockpit interior walls, bushhead (No. 1), floor members (No. 10), gas task (No. 11), wast (No. 12), stick (No. 13), structural members (Nos. 14, 15 and 16), instrument panel (No. 17) and compass (No. 18).

Add decal to instrument panel. Assemble interior components as illustrated and cement completed unit into stratoral fuscleps half (No. 19). Accept file of particular deceases of the particular of the particular of the particular of the passes of the particular of the passes of the passes of particular of the passes of the passes of particular of the passes of passes. Apply cement to halve and clamp while drying. Modify alterons

WINGS: Open rigging holes in panels. Apply cement to halves and clamp while drying. Modify alterons if your subject choice requires. Prime and paint.

LANDING GEAR: Select appropriate parts for your subject choice. Choose between the all plastic wheels/tires (No. 23) and the flexible tire type flush numbers 74). Either wheel type may be ceremeted together and clamped while drying. If flexible tires are chosen, their gloss may be removed with stell wool for greater realism. Tires may be carefully stretched over the wheel hubs into position. Place wheels not oxide sinded whele pant halves. Cement opposite pant halves on, securing with rubber bands or tape while drying. Smooth seams, prime and paint.

TAILPLANES: Open rigging holes, prime and paint.

FINAL ASSEMBLY: Check list of each sub-assembly and adjust if necessary. Note position of key on back of engine which should be at the bottom. When satisfactory, cement components together, checking for correct alignment at each stage. Install landing gear filter blocks (No. 30). Smooth seams and retouch pannt as required. Note that these filter blocks are inhourd of the struct on a = 92 model, and outboard for a = 121 or 44 racer.

Pant cockylic transpoy framing or apply painted tape strips. Fit canopy to fuselage. Slight scraping or sanding may be required for optimum fit. Install canopy using a minimum of adhesive to avoid smears.

sanding may be required for optimum fit. Install canopy using a minimum of adhexive to avoid smears.

FINAL DETAILING: Add the monofilament rigging, which may be undertaken as follows: Measure
the distance between any pair of holes to be spanned and cut a piece of monofilament slightly longer.

Insert one end of the monofilament into hole and carefully apply cement, suitable for nylon, using a
pin or fine were. Allows to dry and insert opposite rigging end into the appropriate opening. Apply
cement and hold monofilament in position using tweezers until the cement will retain the regging.
Repeat at each pair of rigging opinits. In some cases, one length of rigging can pan two or more asy
by passing through parts, such as the stabilizer and wings. Be certain the rigging is untwisted. It "were"
are slightly slack, they may be triptened with judicious application of heat from a tiny soldering from
held near the monofilament.

CAUTION: Excessive heat may damage the rigging, paint or plastic. The soldering tip need only be
placed within close proximity of the rigging to do the job.

Add any remaining details, such as she pitot tube. This item may be made from were (not
Turnshed). Note slight difference in shape of the * | 21 prot tube. Paint and add propaller (No. 28).

Apply decals carefully, as they are extra thin for conformity to contours. Seal with a suitable clear
coating.

CONVERSIONS: A skilled modeler could convert this kit to a later modified aircraft. For example, # 44 could be updated to its 1934 configuration with "bumped" cowling, revised fuselage side panels and other changes. Later versions of the Wedell recens featured other elaborate modifications which might require considerable effort to incorporate but are within the bounds of possibilities. Photographs of variations may be found in published references.

REFERENCES: NATIONAL RACES, 1932, by Charles G. Mandrake, 1976
THE GOLDEN AGE OF AIR RACING pre 1940, by S. H. "Wes" Schmid and Major
Truman C. Weaver, 1963
COL. ROSCOE TURNER'S 1932 WEDELL WILLIAMS, drawings by John Everds,
July 3, 1984
RACING PLANES AND AIR RACES, Volume III, by Reed Kinert, 1967

The Roscoe Turner aircraft exists today in much modified form and may be viewed at the Frederick C. Crawford Museum, 10825 East Blvd., Cleveland, Ohio.

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