

# TEMCO-Riley D-16

## Riley Twin

Unable to meet demand for its new light twin, Riley Aircraft was forced to outsource production, and in early 1953 an agreement was reached with Texas-based TEMCO. Within weeks, TEMCO purchased the type certificate and became the owner of the D-16. Riley in the mean time maintained the task of marketing the Twin Navion.

The most important change introduced by TEMCO was the use of mass-production manufacturing techniques. Each Riley-built D-16 was basically a hand-formed plane, which greatly complicated assembly of the nose cone and engine nacelles. TEMCO's solution was to use pressed components in the nose cone. This reduced the parts and labour required, but also reduced the size of the baggage compartment's opening. The changes were significant enough that a type certificate was issued. D-16s modified by Riley Aircraft were distinguished by a serial number starting with TN (for Twin Navion), while TEMCO examples were TTN (TEMCO Twin Navion).

Many of the early D-16s returned to the TEMCO factory to have many of the upgrades, most commonly, having O-320 engines installed, or the Riley nose replaced with a TEMCO assembly.

### COLOR NOTES:

ALL D-16 RILEY TWINS WERE GIVEN CUSTOM PAINT SCHEMES DESIGNED BY, OR TO THE CUSTOMER'S WISHES. COLOR SCHEMES RANGED FROM THE SUBDUED TO THE GARRISH, INCLUDING ONE AIRCRAFT PAINTED TO MATCH THE OWNER'S FORD THUNDERBIRD CAR.

CF-IIL, FORMERLY N70W (TTN-33), WAS EXPORTED TO CANADA IN NOVEMBER 1955. ALTHOUGH ITS REGISTRATION CHANGED, THE PAINT SCHEME REMAINED THE SAME.

OVERALL AIRFRAME: WHITE

ACCENT COLOR: DARK BLUE  
RED

MAIN FUEL TANK ACCESS  
39.5 US-GALLONS

FIXED METAL TRIM TAB

REGISTRATION: 24" HEIGHT  
COLOR: WHITE

CABIN AIR VENT

HYDRAULIC RESERVOIR ACCESS

HORIZONTAL STABILIZER  
ANGLE OF INCIDENCE CHANGE

FLARE COMPARTMENT  
BLANKING PLATE

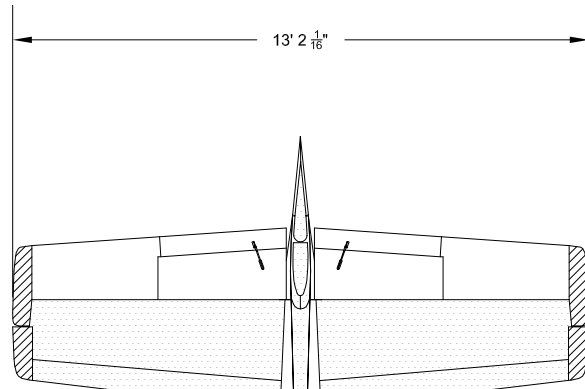
ANTI-SLIP WALKWAY  
COLOR: BLACK

COLOR: DARK BLUE

LYCOMING O-320  
150HP

ACCENT TRIM COLOR: RED

**TEMCO**  
AIRCRAFT CORPORATION  
DALLAS, TEXAS



FORWARD BAGGAGE  
COMPARTMENT  
CAPACITY - 100 LBS

74.0" TO 72.5" DIAMETER  
HARTZELL CONSTANT SPEED  
PROPELLER MODEL HC 82xG-2  
HUB WITH (METAL) BLADE  
MODELS 7636C-2 OR 7636D-2

6.00x6 NOSE WHEEL  
(STEERABLE)

5' 8 3/8"

CANOPY FULLY OPEN  
24" OF MOVEMENT

BOARDING ASSIST HANDLE

GROUND POWER PLUG ACCESS

TEMCO-RILEY LOGO

REGISTRATION: 3" HEIGHT  
COLOR: BLACK

CF-IIL

STATIC PORT (BOTH SIDES)

LEAR ADF ANTENNA (OPTIONAL  
EQUIPMENT ON LATER S/N)

0 1 2 3 4 5 6

FEET

SCALE BARS

0 1 2

METERS

TEMCO INSTALLED AUXILIARY BAGGAGE  
COMPARTMENT FUEL TANK BAGGAGE  
TANK CAPACITY, 30 US-GALLONS FEEDS  
INTO THE RYAN AERONAUTICAL COMPANY  
UNDERSEAT FUEL TANK, 20 US-GAL CAPACITY

AFT BAGGAGE  
COMPARTMENT  
CAPACITY - 180 LBS

FOOT ASSIST STEP  
POLISHED METAL

EMERGENCY FUEL DUMP

TAXI LIGHT (LOW INTENSITY) BOTH LAMPS  
LANDING LIGHT (HIGH INTENSITY) PORT LAMP

PROPELLER SPINNER, ORIGINAL COLOR: WHITE

OIL COOLER

CARBURETOR AIR DUCT AND FILTER

8' 8 7/16"

FORWARD BAGGAGE  
COMPARTMENT  
(DOOR FULLY OPEN)  
MACHINE PRESSED FROM  
ONE PIECE OF SHEET METAL

LANDING LIGHT  
AND TAXI LIGHT

HEATER AIR INLET

SOUTH WIND HEATER EXHAUST

Twin Navion.com

TEMCO-Riley D-16

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Scale: 1/48

Sheet: 1/1