



Limitations

N151ZE

Maximum Allowable Airspeed..... 221K
Maximum AS Level Flight 177K
Maximum AS to Extend Gear 140K

Maximum Speed to Extend Flaps 1/4104K
Maximum Speed to Extend Flaps1/299K
Maximum Speed to Extend Flaps3/4 97K
Recommended turbulence penetration speed 100 to 115K

Maximum To and Landing Weight25,200 lbs
Center of Gravity Limits 11% to 28% M.A.C.

Engine Limitations

Maximum T.O. Power.....48 inches MP.....2700 RPM
METO Power42.5 inches MP....2550 RPM
Climb Power.....36 inches MP.....2350 RPM
Cylinder Head Temp.....150 Degrees C. to 270 C.
Oil Temp.....40 Degrees C. to 100 C.
Oil Pressure.....65 psi to 110 psi
Fuel Pressure.....16 psi to 20 psi

Fuel burn150 gallons first hour, 100 gallons each additional hour

Propeller pitch – 16 to 39 degrees – Feather 88 degrees
2.8 Gallons of Oil Reserve to Feather Propeller

Starter 1 minute on, 3 minutes off

Landing Light cover must be intact for dispatch

Engines – 1830-92 14 cylinders 1200 HP

Bathroom Weight limit 350 pounds



R4D info

64 feet 5 1/2 inches Long
16 feet 11 inches Tall
9 feet 4 inches Wing tip Clearance
95 feet Wing Span
18 feet 6 inches gear span
37 inches prop clearance with tail on the ground

Over Wing Exit – 7 feet high
Cockpit Exit – 13 feet 8 inches high
Mail door – 10 feet high

Runway.....4000 feet long 75 feet wide
Crosswind.....15 Knots
Take off roll 1800 -2000 feet
Landing Roll 2000 feet

Electric
2 – 28 Volt Batteries
2 – 200 Amp Generators

Hydraulic system numbers

0..... Gear up pressure
3..... Quarts Handpump reserve
7..... Quarts Engine Driven pump
10.....Quarts total Hydraulic
55..... Brake Pressure Max pedal
250.....Accumulator Pressure psi
350.....Wheel Pressure psi
375.....Flap relief valve psi
500.....Minimum Brake Pressure to set psi
600-875.. Normal Pressure
1000..... Pressure Relief Valve psi
5606..... Aeroshell Hydraulic fluid