

AIRSPEED CHARTS

TAKE-OFF SPEEDS

NORMAL

Take-off 78 KIAS (85 mph)

Climb-out at 50 feet..... 87 KIAS (100 mph)

SHORT FIELD

Take-off 62 KIAS (70 mph)

Climb-out 79 KIAS (90 mph)

LANDING SPEEDS

NORMAL

Approach..... 80 KIAS (91 mph)

Contact 66 KIAS (75 mph)

SHORT FIELD

Approach..... 75 KIAS (85 mph)

Contact 66 KIAS (75 mph)

CLIMB SPEEDS

TWO ENGINE

Cruising climb speed

Full throttle, gear, flaps up..... 123 KIAS (140 mph)

Best rate of climb speed @ 5,000 ft.

Gear and flaps up 91 KIAS (103 mph)

Gear down..... 73 KIAS (83 mph)

Gear and flaps down 70 KIAS (79 mph)

Best angle of climb speed @ 5,000 ft.

Gear and flaps up 73 KIAS (83 mph)

Gear down..... 61 KIAS (69 mph)

Gear and flaps down 61 KIAS (69 mph)

SINGLE ENGINE

Best rate of climb speed @ sea level

Gear and flaps up 87 KIAS (100 mph)

Best angle of climb speed @ sea level

Gear and flaps up 77 KIAS (88 mph)

Minimum control speed..... 73 KIAS (80 mph)

AIRSPEED LIMITATIONS

Vne Never exceed 211 KIAS (240 mph)

Caution range 163-211 KIAS (185-240 mph)

Vno Maximum structure cruising 163 KIAS (185 mph)

Vfe Flap operating range..... 62-114 KIAS (70-130 mph)

Va Maximum maneuvering speed 139 KIAS (160 mph)

Maximum gear extended 130 KIAS (150 mph)

ENGINE INSTRUMENT MARKINGS

Oil Temperature

Caution (Yellow) 60° to 140°F

Normal (Green) 140° to 245°F

Maximum (Red) 245°F

Oil Pressure

Minimum pressure (Red) 25 PSI

Normal operating range (Green) 65 to 85 PSI

Maximum pressure (Red) 85 PSI

Manifold Pressure

Normal operating range (Green) ..14.5 to 28.5" Hg.

Maximum, sea level (Red) 28.5" Hg.

Cylinder Head Temperature

Normal operating range (Green) 200° to 500°F

Maximum temperature (Red) 500°F

Tachometer

Engine warm up 1300 rpm

Normal operation (Green) 2000 to 2700 rpm

Maximum (Red) 2700 rpm

Fuel Pressure

Minimum (Red) 0.5 PSI

Normal (Green) 0.5 to 6 PSI

Maximum (Red) 6 PSI

Suction

Minimum (Red) 4.4" Hg.

Normal (Green) 4.8 to 5.2" Hg.

Maximum (Red) 5.5" Hg.