



COUGAR

PERFORMANCE AND SPECIFICATIONS

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Maximum Gross Weight	3800 lbs.	1723.7 kg
Basic Empty Weight (GA-7)	2515 lbs.	1140.8 kg
Useful Load	1285 lbs.	582.9 kg
Baggage Limits:		
Forward Compartment	75 lbs.	34.0 kg
Aft Cabin Compartment	200 lbs.	90.7 kg
Speeds:		
Maximum at Sea Level	168 kts	311 km/h
Max. Recommended Cruise: 75% Power at 8,500 ft. (2,591 m)	160 kts	296 km/h
Max. Range Cruise: 45% Power at 8,500 ft. (2,591 m)	114 kts	211 km/h
Stall: Power Off		
Flaps Up	71 kts	131 km/h
Flaps Down	63 kts	116 km/h
Minimum Control Speed, Single Engine	61 kts	113 km/h
Take Off Performance: Max. Gross Wt., Sea Level, 59°F.		
Total Distance to Clear 50 ft. (15.2 m) obstacle	1850 ft	564 m
Ground Run	1000 ft	305 m
Rate-of-Climb at Sea Level:		
Twin Engine	1200 fpm	6.10 m/s
Single Engine	310 fpm	1.57 m/s
Service Ceiling:		
Twin Engine	18300 ft	5578 m
Single Engine	4900 ft	1494 m
Landing Performance: Max. Gross Wt., Sea Level, 59°F.		
Total Distance from 50 ft. (15.2 m) height	1330 ft	405 m
Ground Roll	710 ft	216 m
Range*		
Maximum Recommended Cruise Speed: (118 Gallons Fuel, 75% Power, 8,500 ft.)		
Endurance	5.1 hrs	5.1 hrs
Range	800 nmi	1482 km
(80 Gallons Fuel, 75% Power, 8,500 ft.)		
Endurance	3.1 hrs	3.1 hrs
Range	510 nmi	944 km
Maximum Range Power: (118 Gallons Fuel, 45% Power, 8,500 ft.)		
Endurance	10.1 hrs	10.1 hrs
Range	1160 nmi	2148 km
(80 Gallons Fuel, 45% Power, 8,500 ft.)		
Endurance	6.3 hrs	6.3 hrs
Range	730 nmi	1352 km
*Range and Endurance figures include allowances for start, taxi, takeoff, cruise climb to altitude, cruise, descent, plus fuel sufficient for 45 minutes of holding at 45% power.		
Length	29.84 ft	9.10 m
Height	10.36 ft	3.13 m
Wing Span	36.86 ft	11.23 m
Wing Area	184.0 ft ²	17.09 m ²
Wing Loading	20.65 lb/ft ²	100.9 kg/m ²
Power Loading	11.88 lb/hp	5.39 kg/hp
Fuel Capacity, maximum	118 gal	446.8 lt
Oil Capacity, each engine	8 qts	7.6 lt

Power Plants: (2) Lycoming O-320-D1D, 4 cylinder, 160 hp @ 2700 rpm (recommended time between overhauls: 2000 hrs). Propellers: (2) 73-inch diameter, Hartzell HC-F2LY-2, Blade FC7663D.

PERFORMANCE AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

GA-7 STANDARD EQUIPMENT

CABIN FEATURES

Armrests (2 Front)
Ashtrays (4)
Baggage Restraint System (tie-downs & netting)
Belts, Safety Lap (4), Shoulder Harness — 2 Rear &
Shoulder Harness with inertia reel — 2 front
Carpet (includes baggage floor — rear)
Dual Defrosters
Fresh Air Ventilation, Cabin Air Outlets (2 Front)
Glareshield, Instrument Panel
Hatshelf
Heating & Ventilation System, Cabin Air Outlets (3)
Hook, Clothes Hanger
Locks (Cabin & Baggage Door 2)
Map Compartment
Pilot's Direct Vision Window
Pockets, Map and Storage
Scuff Plates (2)
Seats, Front (Adjustable Fore & Aft) (2)
Seat, Rear (Fold down)
Soundproofing

CONTROL FEATURES

Brakes, Hydraulic Toe-Operated — Left Hand Only
Controls (Wheel, Pedals) — Left Hand Only
Cowl Flaps
Emergency Landing Gear Control Valve
Flaps, Wing (Electrical)
Flap Position Indicator (Electrical)
Gust Lock Elevator & Aileron
Parking Brake
Retractable Main & Nose Gears
Steerable Nose Gear
Trim Systems (Elevator, Rudder & Aileron Trim)

ELECTRICAL SYSTEM

Alternators, 60 AMP 14 Volt (2)
Alternator Warning Lights
Battery (12 Volt)
Buss Bar, Split
Circuit Breakers, Electrical
Dimmer, Instrument Panel Lighting
Dome Lights (2)
Gear Warning Light
Ignition Switches (2)
Lights, Instrument (Indirect Panel Lighting)
Lights, Navigation, with Detectors
Over Voltage Protection
Voltage Regulators (14 Volts) (2)

EXTERIOR FEATURES

Assist Handle — Loading
Jack Pads
Paint Scheme (Standard Polyurethane)
Step, Cabin
Tie-Down Rings, Wing & Tail (3)
Tires, 3: 17 in., 6.0 x 6 in., 6-ply mains;
14.8 in., 6.0 x 6 in., 4-ply nose
Wing Walk

FUEL SYSTEM

Auxiliary Fuel Pumps (2)

Drain Valve, Fuel Tanks (2)
Fuel Gauging System
Fuel Pump, Engine Driven (2)
Fuel, Sampler Cup
Fuel Selector Valve: 3 Position (2)
Primer (2)
Fuel System —
Three Position Filler: 80, 100, 118 gallons
Useable: 75, 95, 114 gallons

INSTRUMENTS

Airspeed Indicator
Alternate Static Source
Altimeter, Sensitive (Feet & Inches)
Ammeters (2)
Compass, Magnetic
Engine Gauges (Oil Pressure, Oil Temperature,
Cylinder Head Temp) (2)
Fuel Pressure Gauges (2)
Fuel Quantity Gauges (2)
Manifold Pressure Gauge (Dual)
Pitot System
Stall Warning, Audible
Tachometer (Dual Needle, Single Gauge, Electric)

POWERPLANT

Carburetor Air Heating System
Engines, Lycoming 160 HP (O-320-D1D) (2)
Engine Control Levers, Cabin (Mixture, Throttle,
Propeller)
Engine Exhaust Mufflers w/Heat Exchangers
Induction Air System w/Filters, Engine
Ignition System, Dual Magnetos
Oil Access Doors (2)
Oil Coolers (2)
Propellers, Constant Speed (Full Feathering) (2)
Propeller Governors (2)
Shielded Ignition (All Weather)
Spinners, Propeller (2)
Starters, Engine (electric) (2)

COUGAR

INCLUDES ALL GA-7 STANDARD EQUIPMENT
PLUS THE FOLLOWING:

- Narco Com 120/Nav 121 (TS0)
- Option 1: Communications and Navigation antenna, microphone, Telex headset, speaker, jacks, wiring, and radio cooling kit.
- Clock, Electric
- Gyros and Pressure System
- Outside Air Temp. Gauge
- Turn Coordinator
- Glove Box
- Cigarette Lighter
- Dual Controls
- Landing Light
- Strobe Lights (3)
- Oil Quick Drain Valves (2)
- Pitot System, Heated
- Sun Visors (2)
- Tow Bar
- Tinted Windshield and Windows
- Vertical Speed Indicator
- Console Center (Rear Seat)





**GRUMMAN AMERICAN AVIATION
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Member of GAMA