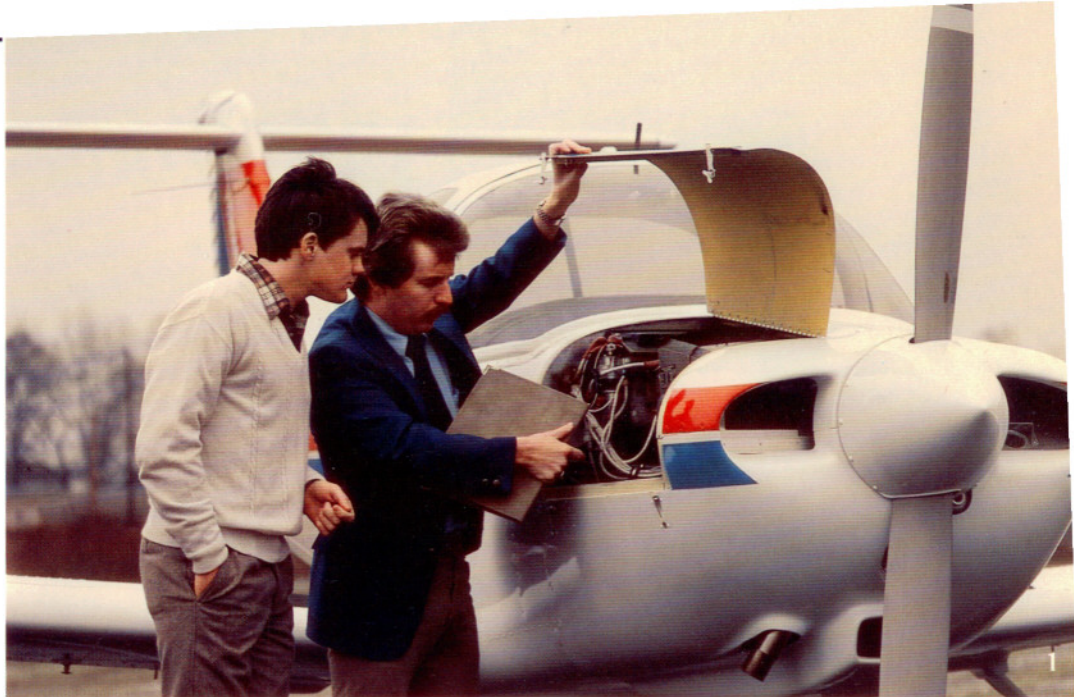
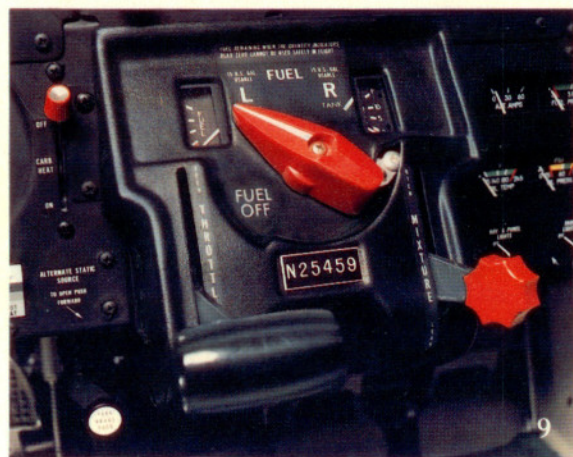


1981 Piper Tomahawk II









Piper Aircraft Corporation

1982

Specifications/Performance
Standard Equipment

Tomahawk II

PA 38



Piper Aircraft Corporation
Tomahawk II PA 38

Specifications

ENGINE (4-Cylinder)

Manufacturer	Lycoming
Model	O-235-L2C
Rating (hp and rpm)	112 @ 2600

WEIGHTS

Gross Weight (lbs./kg.)	1670/757
Standard Empty Weight (with unusable fuel, full oil and operating fluids) (lbs./kg.)	1128/512
Useful Load (Standard Airplane) (lbs./kg.)	542/246

WING AREA AND LOADINGS

Wing Area (ft. ² /m ²)	124.7/11.59
Wing Loading (lbs./ft. ²)/(kg/m ²)	13.39/65.4
Power Loading (lbs./hp)/(kg/hp)	14.9/6.76

BAGGAGE

Volume (ft. ³ /m ³)	20/.57
Capacity (lbs./kg.)	100/45

DIMENSIONS

Wing Span (ft./m)	34/10.36
Length (ft./m)	23.1/7.04
Height (ft./m)	9.06/2.76
Cabin Length (instrument panel to rear bulkhead) (in./cm)	68.5/174
Cabin Width (in./cm)	42.0/107
Cabin Height (in./cm)	50.5/128
Headroom (seat to ceiling) (in./cm)	35.0/89
Wheel Base (ft./m)	4.75/1.45
Wheel Tread (ft./m)	10/3.05

FUEL CAPACITY

Two 16 gal. tanks (gal./L)	32/121.1
Usable Fuel (gal./L)	30/113.6

OIL CAPACITY (quarts/L)

6/5.68

Performance

MAXIMUM SPEED (1670 lbs.) (KTAS)

2600 rpm at Sea Level (kts./kmh)	109/202
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CRUISING SPEEDS (1670 lbs.) (KTAS)

75% at 7,100 ft. (kts./kmh)	108/200
65% at 10,500 ft. (kts./kmh)	100/185

STALL SPEED (KIAS)

Flaps Down Full 34° (kts./kmh)	49/91
Flaps Up (kts./kmh)	52/96

CRUISE RANGE (BEST ECONOMY)

(Cruising range with 45-minute fuel reserve at 55% power plus allowance for fuel used during taxi, take-off, climb at MCP, cruise at stated mixture and descent)

75% at 7,100 ft. (nm/km)	452/837
65% at 10,500 ft. (nm/km)	468/867

RATE OF CLIMB AT SEA LEVEL

Full Throttle (fpm/MPM)	718/219
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SERVICE CEILING (50 fpm) (ft./m)

13,000/3962

ABSOLUTE CEILING (ft./m)

14,000/4267

TAKE-OFF DISTANCE

(Sea Level, zero wind, standard temperature)

Ground Run (ft./m)	820/250
Total over 50-ft. obstacle (ft./m)	1460/445

LANDING DISTANCE

(Sea Level, zero wind, standard temperature)

Ground Roll (ft./m)	707/215
Total over 50-ft. obstacle (ft./m)	1544/471

Standard Equipment

POWER PLANT AND PROPELLER

Engine — 112 BHP Lycoming O-235-L2C four cylinder, air cooled with dual magnetos
Filter, carburetor air, easy access
Heating system, carburetor air
Muffler with heat exchanger
Ignition harness, shielded
Starter, electric, 12 volt
Engine mount, dynafocal with vibration absorbers
Engine primer, manual
Filter, full flow oil
Vacuum pump pad
Valve, oil quick drain
Engine access doors, dual
Propeller — Sensenich fixed pitch 72" diameter metal propeller
Propeller spinner, metal
Winterization Kit

INSTRUMENTS/GAUGES/INDICATORS

Airspeed indicator
Altimeter, sensitive
Ammeter
Compass, magnetic
Gauge, fuel pressure
Gauge, fuel quantity
Gauge, oil pressure
Gauge, oil temperature
Gauge, outside air temperature
Stall warning, audible
Tachometer, recording
Alternate static source

FUEL SYSTEM

32 gal. total; 30 gal. usable (contained in two wing tanks)
Fuel pump, electric auxiliary
Fuel pump, engine driven
Fuel selector valve, three position, center panel located
Fuel tank sump drains, two
Fuel strainer and quick drain
Fuel gauging tab

ELECTRICAL SYSTEM

Battery, 12 volt, 25 amp/hr, easy access
Alternator, 60 amp
Voltage regulator, 12 volt, 60 amp
Wiring system
Rocker switches
Circuit breakers, push to reset
Relay, starter
Relay, overvoltage
Ignition, key lock
Battery contactor
Alternator warning light

LANDING GEAR SYSTEM

Main gear, steel spring assemblies, interchangeable L/R
Nose gear assembly, oleo type
Main wheel assemblies 6.00 x 6
Nose wheel assembly 6.00 x 6
Tires, 4 ply, 6.00 x 6
Tubes, 6.00 x 6
Combination hand brake/parking brake
Provisions for dual toe brakes
Wheel hub covers, mains

COCKPIT AND FLIGHT CONTROLS

Ventilators, cabin air, high volume, directional panel mounted
Windshield defroster, dual outlets
Heating system, cabin
Control wheel, padded
Flight controls, dual
Elevator trim system, bungee
Wing flaps, manual, three position
Rudder trim tab, ground adjustable

AIRCRAFT FEATURES

Entrance doors, two, left and right sides, with single overhead latch, key locked
High strength roll-over support structure
Baggage area 20 cu. ft.
Baggage tie down straps
Seats, a choice of vinyl with perforated vinyl inserts, or standard fabric with vinyl trim, bucket type, adjustable fore/aft/vertically, on inclined track, two
Seat adjustment assist grip in glareshield
Seat safety belt system, dual
Shoulder harness system, dual
Zinc chromate treatment of all aluminum parts
Ashtrays
Map pockets (two)
Carpeted floor
Upholstery, vinyl
Instrument panel, modular
Instrument panel glare shield
Rear window, wrap-around and tinted
Sound proofing, interior
Windshield, one piece wrap-around
Cabin door pulls and integrated arm rests
Maintenance access panels, instrument panel, power plant and control system
Power quadrant, throttle and mixture with friction lock, center mounted
Control console with flap control

MISCELLANEOUS

Wing and tail tie-down rings
Paint, all over white
Paint, trim stripe, five color choices
Pilot's handbook
Provisions for Automatic Locator Beacon
Avionics provisions

PRODUCT SUPPORT

Piper Qualicare Booklet
Piper Warranty Form
Piper Service Center Directory
Inspection Forms